

Program Availability List

XEROX

**Program
Availability
List
XEROX COMPUTER SOFTWARE**

Copy No. 198221

Assigned To Barbara Kozynski

XEROX

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El Segundo, California 90245
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INTRODUCTION

Your Program Availability List (PAL) manual contains a list of all available Xerox software products, user programs and programming manuals. The systems that control the distribution and ensure the updating of the items listed are also described.

A complimentary copy of the PAL is given for each Xerox computer installed or on order. A \$30.00 charge is made for additional copies and updates for the first year. Thereafter, an annual charge of \$15.00 is made for updates for each PAL purchased over and above the complimentary copy.

To order a PAL, submit a "PAL Manual Request Card" (Form 1496) to:

Xerox Corporation
Attn: Software Services - Data Entry Administration, M4-08
701 S. Aviation Blvd.
El Segundo, California 90245

A complete address is needed for both Xerox employees and customers. For employees, the employee number (instead of an installation number) and a valid cost center or department number must be included on the registration card. Alterations to a PAL registration are made by submitting the "PAL Manual Request Card" to the same address indicated above and indicating on it the required change.

A PAL update memo is sent to you monthly. It lists programs and publications added to or updated in the PAL for the time period indicated in its cover memo. Each memo incorporates all modifications since the last reprint of the PAL. So, as you receive these updates, the old updates can be disposed of since the current one contains the previous modifications as well as the recent ones.

The PAL is published to give you, the user, various types of information. We would appreciate your telling us about items that are either unclear or not included.

PAL MANUAL ORGANIZATION

The list below briefly outlines the format of the PAL:

GENERAL SECTION

Table of Contents - Update Record	(white)
General Information Section	(white)
Status Information Section	(white)

COMPUTER SECTION

Sigma 2/3 and 530 Section	(yellow)
Sigma 5-9 Section	(blue)
9-Series Section	(brown)
Special Products Section	(gold)

PUBLICATIONS SECTION

General Information Section	(green)
Sigma and 530 Computer Publications Section	(green)
9-Series Computer Publications Section	(green)

Contents of each Major Section and Subsection

GENERAL SECTION

Table of Contents provides a list of the topics covered in the PAL and their respective page locations. The Update Record can be used to record the insertion of the PAL updates as they are received.

General Information Section explains the overall organization of the PAL and contains information on the following topics:

- Definitions and classifications of software
- Information about submitting one-time orders
- Subscription information for software, technical bulletins and programming manuals
- Descriptions and examples of forms used to obtain items listed in the PAL

Requirements for special requests
SIDR submittal information for improving or correcting software

Status Information Section contains all currently orderable software, identified by the program catalog numbers, in numerical order.

COMPUTER SECTION

Each computer section contains a Software Order Guide, a KWIC Index, Program Summaries and Diagnostic Program Summaries EXCEPT for Special Products which has one subsection per product each containing a KWIC Index and Program Summaries. These are defined as follows:

Software Order Guide

Contains the catalog number, a brief description, the elements necessary for normal operating requirements, and some major processors available for the Xerox operating systems.

KWIC (Key Words In Context) Index

Is an alphabetic list of orderable software based on one or more key words in the program's title. The catalog number and class is given for each program.

Program Summaries and Diagnostic Program Summaries

Describes the functions, prerequisites and storage requirements of a program and gives other pertinent information. The first line of each summary contains the six-digit program catalog number, applicable computer, title and the program's author. The programs are in numerical order with the licensed programs (those with an "A-" Class designation) appearing first followed by the unlicensed programs (those with a "B-" Class designation).

The storage requirements and prerequisites vary depending upon the user's specific environment. A Xerox field representative should be consulted to determine the exact requirements.

NOTE: Since the Program Summaries are intended for information only, Xerox Corporation cannot assume any responsibility for supplying additional memory or peripheral devices when the original requirement was based solely on information in the program summary.

PUBLICATIONS SECTION

Contains a General Information section which has information on the diagnostic program manuals and user programming manuals. It also has payment and pricing policies for the publications.

It is primarily a catalog of brochures, programming manuals and diagnostic program manuals.

GENERAL INFORMATION SECTION

All software products are assigned a program classification and a unique six-digit program catalog number.

Program Classifications

The program classification is expressed as a two-digit code of the form "xy" where x signifies whether the program is licensed (type A) or unlicensed (type B) while y signifies the program's support category (1, 2 or 3).

For some licensed programs (type A), referred to as "Program Products", users are charged a usage fee. These programs are typically libraries or application packages which recipients are allowed to use for the fixed period specified in the Xerox License Agreement.

NOTE: Prior to filling requests for licensed programs, Software Services must have in its possession a signed License Agreement for Xerox Program Products and a Supplement to License Agreement for Xerox Program Products for each product involved.

Additional information may be obtained from any Xerox field representative.

For unlicensed programs (type B), referred to as "Control Programs", users are neither charged a usage fee nor are they required to submit license agreements. These programs include operating systems, monitors, compilers and assemblers, utilities, and diagnostics as well as other types.

Both licensed and unlicensed programs are divided into three classes:

- Class 1 Supported. Programs in this class are maintained by Data System Development (DSD) and the field responsibility lies with Xerox Computer Field Engineering (CFE).
- Class 2 Supported. Programs in this class are supported by other than DSD projects.
- Class 3 Not Supported. Programs in this class may have been supported at one time, or they may have been contributed by Xerox customers or employees and made available without being checked, tested or maintained by Xerox. Programs cataloged for the EXCHANGE (Xerox Computer Users' Group) Library are included in this class.

Program Identification

All available Xerox software is identified by a unique six-digit number which is referred to as a program catalog number. This catalog number may encompass a series of programs if these programs are ordinarily ordered as a group (e.g., Sigma 2/3 Numerical Subroutine Package, Catalog No. 705546). When this group is made available as a package, only a single "cover number" is used to identify it.

Every program catalog number has a two-digit number appended to it which is referred to as a program element. It is in the form "xy" where x usually refers to the form (source, binary, etc.) and y usually refers to the media (printed, magnetic tape, etc.) of the program. For example, a "-11" is a printed description of the program and a "-84" is absolute binary cards. The descriptions of these digits are summarized below:

First Digit Meaning		Second Digit Meaning	
0	Miscellaneous	0	Miscellaneous
1	Description	1	Printed
2	Relocatable Binary	2	7 level paper tape
3	Source	3	8 level paper tape
4	Compressed	4	Cards
5	Listing	5	7 track magnetic tape
6	Update	6	9 track magnetic tape
7	Miscellaneous	7	Disk pack
8	Absolute Binary	8	Miscellaneous
9	Miscellaneous	9	Miscellaneous

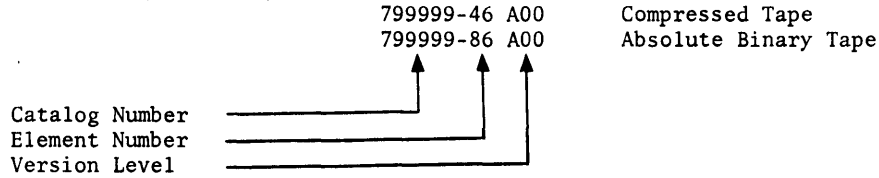
NOTE: There are two permanently assigned program elements with the first digit zero. The designation of -01 is assigned to technical bulletins and a -02 is assigned to an unpublished technical document.

Not all of the possible elements are available for each program. Programs are usually distributed on the type of media that would be most suitable for the potential users. Refer to the Status List section for the available elements for each program. If an element is not listed, it may be ordered only on a Field Request; see Special Requests below.

Program Modifications

A program is given a version level of A00 when it is made available for the first time. Therefore, a software item is referenced by a number comprised of a program catalog number, program element and a version level. For example:

Original issue (A Version):



As significant changes or enhancements to the program occur, the non-alphabetic characters of the version level are incremented. For example:

Program Difficulty Corrected:

799999-46 A00	Compressed Tape
799999-66 A01	Update Tape
799999-86 A01	Absolute Binary Tape

Feature Added:

799999-46 A00	Compressed Tape
799999-66 A02	Update Tape
799999-86 A02	Absolute Binary Tape

A major new release or a complete incorporation of all changes to the source program causes the alphabetic character of the version letter to be incremented and the non-alphabetic character to be set to zero. For example:

Reassembled to incorporate modification A01 and A02

799999-46 B00	Compressed Tape
799999-86 B00	Absolute Binary Tape

When ordering programs, however, the version level does not have to be specified as the latest available version will always be distributed.

SOFTWARE ORDERING PROCEDURES

NON-SUBSCRIPTION ORDERS

Individual Orders

One-time copies of any program, technical bulletin or programming manual must be ordered on a Literature/Program Request (form 1535). For customer orders, their installation number and the department number of the person preparing the order must be given. For Xerox employee orders, the department number is sufficient. A sample form with further instructions is shown on Figure 1.

If the order is for software items, the program catalog number and the designation of the elements required must be included on the form. All magnetic tapes are assumed to be at 800 BPI. Indicate other BPI under the "Description" column if some other is required. Also, the 7-track version of a magnetic tape is usually available even if only a 9-track version is indicated. To order, use the program element number that reflects the 7-track tape (i.e. -25, -85, etc.).

To determine whether a particular element is available for a given program catalog number, refer to the Status List section. If there is a requirement for a program element that is not shown as being available, it may be requested via a Field Request (form 1435). Refer to "Special Requests" for the procedure.

Since a Literature/Program Request (LPR) will not be returned to the requestor until all ordered items are available for shipment, we encourage that orders for programming manuals be submitted on a separate LPR.

Mail Literature/Program Request to:

Xerox Corporation
Attn: Software Services - Software Library, M4-12
701 S. Aviation Blvd.
El Segundo, California 90245

SUBSCRIPTION ORDERS

Subscription Orders for Software

Software Services provides a DIRECT DISTRIBUTION SYSTEM (DDS) whereby customers and Xerox regional and district offices automatically receive major items of software and their subsequent revisions at no additional charge. This includes the operating systems and processors which are summarized on the Software Order Guides. To determine what software is distributed via DDS, refer to the Software Order Guides under the appropriate Computer section.

An installation may be registered for only one operating system. Requests for multiple operating systems require special justification and must be accompanied by an explanatory memo from the installation's field analyst.

DDS REGISTRATION FOR PROGRAM PRODUCTS

The sales representative initiates all required documents and forwards them to Software Services through the Regional Sales Administrator and Order Administration. These documents include a (1) Sales Order (if needed), (2) License Agreement for Xerox Program Products, and (3) Supplement to License Agreement for Xerox Program Products. On receiving these documents from Order Administration, Software Services registers the installation for DDS and initiates shipment. Refer to "Program Classifications" for definitions of Program Products.

DDS REGISTRATION FOR NON-PROGRAM PRODUCTS

The field analyst is responsible for initiating an installation's DDS registration for non-program products. A Registration/Subscription Request (form 2300) should be submitted to Software Services at least four weeks before the hardware is installed to ensure delivery. The white original, yellow and pink copies are sent and the goldenrod is retained by the analyst. The pink copy and a copy of the computer listing of the entry is returned to him after the registration has been completed. A sample form with its instructions is shown on Figure 2.

NOTE: Unless the "IP" column (for "Initial Package") on the form is checked, the installation is merely registered for the desired product but the direct distribution begins with the next release of that product. Refer to the Software Order Guide under the appropriate computer section for the contents of any particular initial package. (No initial packages permitted for diagnostic programs.)

Mail the Registration/Subscription Request to:

Xerox Corporation
Attn: Software Services - Data Entry Administration, M4-08
701 S. Aviation Blvd.
El Segundo, California 90245

MAGNETIC TAPE POLICY

Installations receiving software on magnetic tapes are encouraged to return those tapes to Software Services as soon as possible or to send a Purchase Order covering those tapes. An installation will be allowed to hold tapes up to 60 days without penalty. However, if any installation accumulates 6 or more delinquent tapes, no subsequent shipment of software on magnetic tape will be made.

All magnetic tapes are assumed to be at 800 BPI. Indicate other BPI in the "Density Mag Tape" area if some other is required. Also, the 7-track version of a magnetic tape is usually available even if only a 9-track version is indicated. To order, use the program element number that reflects the 7-track tape.

DDS SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility to keep his subscription up to date. Alterations to a DDS subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which indicates what alteration is to be done i.e., C (change), A (add), D (delete), or R (renew). The subscriber's field analyst must approve and submit the form. After the DDS alteration has been completed, a copy of the on-line listing is returned to the submitter. A sample form with its instructions is shown on Figure 2.

REPORTS

Xerox Regional and District Software Support Managers receive a monthly listing of the distribution status of customers within their areas.

Subscription Orders for Manuals

Software Services provides a PUBLICATIONS SUBSCRIPTION SERVICE (PSS) whereby users may subscribe, for one or two years, to specific programming manuals and all revisions to them issued during the duration of the subscription. There is a charge for publication subscriptions. Prices for both one and two year subscriptions of a programming manual are shown in the Publications section of the PAL. For further details on pricing and for the proper usage of that section, refer to the General Information subsection of the Publications section.

SUBSCRIPTION ACTIVATION

Subscribers have two options regarding their subscription:

1. They have the option to have the subscription take effect immediately (non-deferred). In this case, the subscription begins upon the receipt of the subscription request. The latest edition of the publication and all of its revision packages (if any) will be sent immediately. This option should be used by those that do not have the particular publication.
2. They have the option to have the subscription take effect with the printing of the next edition of the publication (deferred). Until that time, the subscriber will receive all revision packages published for the publication between the subscription request date and the next new edition. This option should be used by those that already have the particular publication.

SUBSCRIPTION TERMINATION

A subscription does not expire until a new edition of the publication is released following the chronological expiration date of the subscription. The subscriber will be notified at the time the manual is shipped that his subscription has expired. The subscriber can then submit a subscription renewal for that publication early enough to avoid an unintended interruption of service.

The expiration of a subscription for one publication does not affect the subscription to any other publication that may have been listed on the same request.

REGISTRATION FOR PSS

The Registration/Subscription Request (form 2300) is used to enter subscriptions for programming manuals. A sample form is shown on Figure 2. The form is self-explanatory except for some amplifications and restrictions which are given in notes following Figure 2.

An RSR Supplement (form 2300-1) can be used for PSS requests for which the programming manuals ordered are to be shipped to more than one "Ship-to" address. Each address should be indicated on the RSR Supplement, a sample of which is shown on Figure 3. One subscription for each programming manual will be registered for each addressee. The number of "Ship-to" addresses must be equal to the total quantity for each programming manual.

Mail the Registration/Subscription Request and/or Registration/Subscription Supplement to:

Xerox Corporation
Attn: Software Services - Data Entry Administration, M4-08
701 S. Aviation Blvd.
El Segundo, California 90245

PAYMENT

The Registration/Subscription Request must be accompanied by payment in full for the total request (i.e., deferred subscriptions that do not go into effect until the printing of the next edition of the associated publication must be included in the payment). Payment may be in the form of a billable purchase order or by a check made payable to Xerox Corporation. Internal Xerox subscriptions will be charged to the subscriber's organization.

Subscribers are not allowed to apply educational discounts against subscription prices. However, to prevent bookstores and other large ordering facilities from being faced with the prospect of absorbing the loss for unsold publications, full credit is given for all publications returned within 60 days of shipping.

PSS SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility for keeping his subscription up to date. Alterations to a publication subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which corresponds to the alteration that needs to be done i.e., C (change), A (add), D (delete), or R (renew). A sample form with its instructions is shown on Figure 2.

Subscription Orders for Technical Bulletins

Technical Bulletins (TB) are published documents which describe changes made to software products usually initiated by SIDRs. All Technical Bulletins are considered "temporary" since each is applicable only to the current released version of a software product. Each active Technical Bulletin is incorporated in the next released version of the applicable software product.

There is no charge for Technical Bulletins, but a customer may not authorize his own subscription -- a Xerox field analyst's signature is required. Subscriptions for Xerox field offices, library copies or field analysts require authorization by the region or district manager.

REGISTRATION FOR TECHNICAL BULLETINS

The Registration/Subscription Request (form 2300) is used to enter a Technical Bulletin subscription. On the form indicate the program catalog number and append to it a -01, which is the element designator for Technical Bulletins. The subscription takes effect immediately and remains as such until cancelled. Upon registering, all published Technical Bulletins related to the software product are sent as they are produced. By specifying "ALL" in the Catalog No. column on the form, the user will receive technical bulletins for all software products.

Mail the Registration/Subscription Request to:

Xerox Corporation
Attn: Software Services - Data Entry Administration,
701 S. Aviation Blvd.
El Segundo, California 90245

TECHNICAL BULLETIN SUBSCRIPTION CORRECTIONS

It is the subscriber's responsibility for keeping his subscription up to date. Alterations for a Technical Bulletin subscription are accomplished by submitting a Registration/Subscription Request (form 2300) to Software Services. The appropriate box on the form must be checked which corresponds to the alteration that needs to be done i.e., C (change), A (add), D (delete), or R (renew). A sample form with its instructions is shown on Figure 2.

Xerox Corporation
 701 South Aviation Boulevard
 El Segundo, California 90245
 213 679-4511

XEROX

Literature / Program Request

Nº 142572

Ship To <input type="checkbox"/> Xerox Representative Office or Mail Station Ext. <hr style="border-top: 1px dashed black;"/> <input type="checkbox"/> Customer				Date (G)				
Bill To (E)				Requester (H)				
				Department No. (I)				
				Mgr. Approval (J)				
Date Required (B)		Billable (D) <input type="checkbox"/> Yes <input type="checkbox"/> No		Purchase Order No. (F)				
Installation No. (C)		S/O No.		Shipping Instructions				
				Date Shipped				
				Via. (K)				
				Wt. (L)				
				Ctns. Waybill No.				
Item No.	Quantity			Publication No.	Element	Description	Unit Price	Extended Price
	Order	Shipped	B/O					
1								
2								
3				(L)	(M)			
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
Remarks (N)							Total ▶	
Justification					Logged ▶			

1535(7/73)

White - Publication Services / Yellow - Shipper / Pink - Confirmation / Goldenrod - Originator

Figure 1.

DIRECTIONS FOR FILLING OUT THE
LITERATURE/PROGRAM REQUEST (LPR) FORM 1535

- A. Record complete name and address of Xerox customer or Xerox representative for whom the ordered items are intended. Mail stations and phone extension numbers for Xerox representatives should be indicated.
- B. Enter realistic, actual date by which items are required. Never request delivery ASAP. If delivery within less than 10 days is requested, explain under "Remarks" at bottom of request form. If air postage is necessary to fulfill requirement, the postage will be charged to the requester.
- C. This field is mandatory for all orders. Customers should use the seven-digit installation numbers, Xerox employees must use a valid cost center number.
- D. Check "yes" or "no."
- E. Enter name and address of individual to whom an invoice should be sent if order covers billable items or magnetic tape.
- F. Enter customer's purchase order number if order is for billable item. (Copy of purchase order must be attached.)
- G. Enter date the order is prepared.
- H. Enter name of the Xerox field representative preparing the request.
- I. Enter department number of person preparing the order in this space even if request is for a Xerox customer.
- J. Section, Regional or District Manager's approval is required if order is for a Xerox customer.
- K. Xerox Software Library/Distribution personnel will enter date item is shipped, name of carrier, and number of cartons.
- L. Enter the catalog number, version, and element designation for each item ordered. For software a -11 or -61 element will automatically be shipped for each product ordered, making it unnecessary to order it explicitly; the same applies to revision packages to manuals. To expedite processing do not order manuals on the same request as software.
- M. Enter title of item requested.
- N. Enter any additional relevant information regarding items ordered or shipping instructions.

Xerox Corporation
 Attn: Software Services - Documentation/Software Subscriptions
 701 South Aviation Boulevard
 El Segundo, California 90245

XEROX

Registration/Subscription Request

• Please type or print

Nº 04933

Customer — Ship To (A)		<input type="checkbox"/> See attached supplement. (B)		Month	Day	Year	
Attention				Installation No. (D)			
Department				Purchase Order or Charge No. (E)			
Street Address				Region (F)		District	
City		State or Province		Zip or Country			
Customer — Bill To (C)		<input type="checkbox"/> Add (G)		<input type="checkbox"/> Renew			
Attention		<input type="checkbox"/> Change		<input type="checkbox"/> Delete			
Department				DDS Entries Only			
Street Address				CPU (H)		F.E. Code (J)	
City		State or Province		Input Media (I)		Density Mag. Tape (K)	
Item No.	Qty.	Catalog No.	Description	I P	Subscription		Total Price
					Years	Defer ?	Price
1	(L)	(M)	(N)	(O)	(P)	(Q)	(R)
2							(S)
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
Xerox Representative (U)				<input type="checkbox"/> Total (T)		→	

2300(10/73)

Xerox Corporation - El Segundo, California
 White - Software Services / Yellow - Order Administration / Pink - Confirmation / Goldenrod - Originator

FIGURE 2

Xerox Corporation
 Attn: Software Services - Documentation/Software Subscriptions
 701 South Aviation Boulevard
 El Segundo, California 90245

XEROX

Registration/Subscription Request Supplement

Customer Ship To	Customer Ship To
Attention	Attention
Department	Department
Street Address	Street Address
City State or Province Zip or Country	City State or Province Zip or Country
Customer Ship To	Customer Ship To
Attention	Attention
Department	Department
Street Address	Street Address
City State or Province Zip or Country	City State or Province Zip or Country
Customer Ship To	Customer Ship To
Attention	Attention
Department	Department
Street Address	Street Address
City State or Province Zip or Country	City State or Province Zip or Country
Customer Ship To	Customer Ship To
Attention	Attention
Department	Department
Street Address	Street Address
City State or Province Zip or Country	City State or Province Zip or Country
Customer Ship To	Customer Ship To
Attention	Attention
Department	Department
Street Address	Street Address
City State or Province Zip or Country	City State or Province Zip or Country

2300-1(10/73)

Xerox Corporation - El Segundo, California

FIGURE 3

DIRECTIONS FOR FILLING OUT THE
REGISTRATION/SUBSCRIPTION
REQUEST (RSR) FORM 2300

- A. CUSTOMER - SHIP TO: Complete name and address of customer to whom items are to be shipped. For Xerox Home Office employees, enter organization under "Department" and mail station under "Street Address". Xerox field office employees must have complete address.
- B. SEE ATTACHED SUPPLEMENT: Check () this box only for PSS requests for which the manuals ordered are to be shipped to more than one "ship-to" address, each of which should be indicated on the RSR Supplement, form 2300-1 (Figure 3). One subscription for each manual ordered will be registered for each such addressee. The number of "ship-to" addresses must be equal to the total quantity ordered for each manual.
- C. CUSTOMER - BILL TO: Complete name and address of the customer to whom the items are to be billed. If this address is the same as the "ship-to" address, write SAME in this area.
- D. INSTALLATION NO.: 4-digit customer number and 3-digit system number (assigned by Order Administrations and refers to "bill-to" address). For Xerox employee orders use 5-digit employee number filled with leading zeros if necessary.
- E. PURCHASE ORDER OR CHARGE NO.: If non-billable items leave blank. If billable:
Customer orders - enter purchase order number and attach purchase order.

Xerox employee orders - enter appropriate charge number.
- F. REGION/DISTRICT: See Table 2 for region and district abbreviations.
- G. ADD, CHANGE, RENEW, DELETE: Check () appropriate box.

ADD - indicates a new registration

CHANGE - indicates existing registration is to be changed

RENEW - For manual subscriptions only; indicate subscription for listed items which are to be renewed.

DELETE - check () this box if entire registration is to be deleted. If only specific items are to be deleted, check () the box and list the appropriate items.
- NOTE: For ADD or RENEW, Xerox employees organizations will be charged automatically; all others must include a purchase order or check for the full amount.
- H. CPU: Type of CFU; i.e. Sig2, Sig5, Sig7, 530, etc.
- I. INPUT MEDIA: C = cards, P - paper tape, 7T = 7 track magnetic tape, 9T = 9 track magnetic tape, DP-xxxx = disk packs -- where "xxxx" is the model number (7242, 7254, etc.).
- J. F.E. CODE:
- K. DENSITY MAG. TAPE: 556, 800, or 1600 B.P.I.
- L. QTY: For technical bulletins or manuals, enter the quantity desired.
- M. CATALOG NO. For software, enter the catalog number and version; for technical bulletin, enter catalog number followed by -01; and, for manuals, enter the publication number.
- N. DESCRIPTION: Title of publication or software title for DDS/TB requests.
- O. IP: For software only. Check this field if an initial package is desired. If left blank, direct distribution will begin with the next software release. (Please Note: There are no initial packages for diagnostics.)
- P. YEARS: For manual subscriptions only. Enter 1- or 2-years (see "R").

- Q. DEFER: For manuals only. If "YES", or left blank, subscription starts with the release of the next revised edition. All updates to the current version will be received. If "NO", subscription begins immediately and the most current version of the publication will be sent.
- R. PRICE: For manuals only. Enter 1- or 2-year subscription price shown in Publications section of PAL. For internal Xerox subscriptions, leave "YEARS" and "PRICE" fields blank. Such internal subscriptions will not expire and charges are made at the time of shipment.
- S. TOTAL PRICE: For manuals only. Enter the total price for the quantity and length of subscription.
- T. TOTAL: The sum of the total price column.
- U. XEROX REPRESENTATIVE: Required on all requests except customer subscriptions for manuals.

Customer/OEM Ordering

Any Xerox software identified by program catalog numbers 890000-899999 (Users' Group software) may be ordered directly by a customer. All other software orders must be requested through the local sales office or a field representative. Refer to "Software Ordering Procedures" for information regarding proper forms and mailing instructions.

Special Requests

If a software item is needed in a form or media other than the ones indicated as being available, it may be requested on a Field Request (form 1435). All Field Requests must be approved by the District Systems Manager or the District Service Manager and should be directed to Business Policy, mail station I8-23. Business Policy has the responsibility of logging and tracking these Field Requests to ensure timely responses.

Software Services cannot take any action on Field Requests until they have been forwarded from Business Policy.

How To Order

The following list will assist you when ordering one-time copies of software maintenance manuals, programming manuals etc., and the appropriate form to use.

Remember that subscriptions for programming manuals and Technical Bulletins, and registrations for direct distribution of software are entered on a Registration/Subscription Request (form 2300) and mailed to Software Services.

To speed up processing when ordering several kinds of items on the Literature/Program Request (form 1535), it is best to use several forms and order directly from the departments that supply the items. Orderable items and responsible departments are listed below.

Item No.	What	Where	Form No.	Mail Station
704xxx	Software (cards, tape, and printed descriptions)	Software Services	1535	M4-12
705xxx	"	"	"	"
706xxx	"	"	"	"
707xxx	"	"	"	"
72xxxx	"	"	"	"
85xxxx	"	"	"	"
86xxxx	"	"	"	"
87xxxx	"	"	"	"
88xxxx	"	"	"	"
89xxxx	"	"	"	"
69-xx-xx	National Software (NSS) Memos	"	"	"
702xxx	Maintenance Documents	Document Services	171-1	A2-16
703xxx	"	"	"	"
1xx-xx	"	"	"	"
65-xx-xx	TEK Tips	Field Eng. Publ.	1535	C3-27
90-xx-xx	Hardware and Software Manuals (non-subscription orders)	Software Services	1535	M4-12
90-xx-xx	Module Data Sheets	"	"	"
50-xx-xx	Brochures	"	"	"
62-xx-xx	"	"	"	"
63-xx-xx	"	"	"	"
64-xx-xx	"	"	"	"
67-xx-xx	"	"	"	"
98-xx-xx	Systems Manuals	Applied Technology Publications	1535	A2-08

SIDR Submittal and Processing

The SIDR system is designed to provide two basic functions: (1) a method of reporting errors or suggesting improvements in Xerox supported software products and related publications; and (2) an on-line query capability with which the user may examine the status of a SIDR, or group of SIDRs using specific criteria.

DEFINITIONS

The Software Improvement/Difficulty Report or SIDR (Form No. 1188) is used to bring to the attention of the Development Division any detected errors or desired improvements in software or related publications. Customers may obtain forms from their local Field Office. Forms may be obtained locally through Office Supplies.

SEVERITY LEVELS

If the SIDR documents an error in the software or related publications, the originator of the SIDR must assign a severity level code that indicates the degree of difficulty for the problem he is experiencing. SIDRs not having a severity code assigned will default to severity 5. The following codes are used.

<u>Code</u>	<u>Description</u>
1	Software will not run until the difficulty is corrected; the system is down or recovering frequently and the problem cannot be circumvented.
2	Software is operable or the publication is usable, but productivity is severely hampered. There is a distinct error in the way the software operates, or in the documentation, causing extreme difficulty that cannot feasibly be avoided.
3	The difficulty is more of an irritant than a significant problem -- it can be easily circumvented.
4	Problem is of indeterminate nature; for example it is indiscernible whether the software or supporting documentation is at fault.
5	Improvement or enhancement to the software or supporting documentation.

SIDRs may be written against any supported software products which are those listed as Class A1, A2, B1, or B2 in the Program Availability List (PAL Manual).

GENERATION

A SIDR may be initiated by any user of Xerox supported software. The procedure for filling out a SIDR form is detailed in notes following Figure 4. Only one improvement or difficulty may be documented on any one SIDR.

SUPPORTIVE DOCUMENTATION

To enable Development Division personnel to properly resolve a SIDR against a software product, adequate information and supportive material must be supplied so that the situation can be duplicated; e.g., source input, dumps, test cases, etc. If the SIDR is against Language Processor Products, such as COBOL, SORT, etc.; a test case on cards or magnetic tape is required. If the approving field analyst feels a test case is inappropriate he may indicate this on the SIDR. If the information supplied is insufficient, the SIDR may be rejected or closed without action.

Publication SIDRs and Severity 5 SIDRs rarely require supportive material. It is usually sufficient to describe the problem on the SIDR form.

PRE-SUBMITTAL REVIEW

Improvement SIDRs (Severity 5). Improvement SIDRs do not require review.

Difficulty SIDRs (Severities 1-4). SIDRs originated by all Xerox employees must be reviewed and signed by the originator's immediate supervisor. SIDRs originated by Computer Center personnel must be reviewed and signed by a member of Customer Services.

Customer originated SIDRs must be reviewed and signed by an analyst from the local Field Engineering Office.

Review Guidelines

1. Make certain that the SIDR in question addresses the latest released version of the product or publication.
2. Check to see whether or not this specific item has been documented in a Technical Bulletin.
3. Utilize the SIDR Report/Query System (see "SIDR Status" below) to determine whether the difficulty or improvement has already been submitted.
4. Examine the general applicability of a suggested improvement. If it is one dealing with a very specific area of an application, or if it contradicts the basic philosophy of the system or the publication the probability of its incorporation is not very high.

SUBMITTAL

After the SIDR has been written, the supportive documentation assembled and it has been reviewed and signed by the analyst, the originator should keep his copy and send the rest of the form, including all supportive material, to:

Xerox Corporation
Attn: Software Services - SIDR Administrator, M4-08
701 South Aviation Boulevard
El Segundo, California 90245

ACKNOWLEDGMENT

For customer originated SIDRs, the customer and Regional Software Support Manager will receive an acknowledgment copy of the SIDR within five days of its receipt by Software Services. For SIDRs originated by Xerox employees, the originator and his immediate supervisor will receive the acknowledgments. This copy will contain in the upper right corner the number assigned to the SIDR. The Regional Manager must notify the field analyst of the SIDR number. This number will be used for further reference and status checking via the SIDR Report or Query System (see below).

S IDR STATUS

Software Services publishes a monthly SIDR Report. This report contains all SIDRs currently open and pending, (excluding Severity 5) and all SIDRs closed during the reporting month. A SIDR data base with an on-line query capability is also available by which any user with a valid time-sharing account may examine the status of a SIDR. The data base contains all open and pending SIDRs, as well as a six-month history of all closed SIDRs. This on-line query system exists in the form of a load module called "SIS" which resides in account "\$SIS" on the CP-V Time-sharing System in El Segundo (telephone 213/644-9811). See NSS Memo #69-03-04 for its use.

SIDR CORRECTIONS

In the event that it becomes necessary to change any of the fields filled out by the submitter on the SIDR form, a correction SIDR must be submitted. This is done by filling out a SIDR form with the "SIDR Correction" box checked and the number of the SIDR correctly indicated. The only other fields that should be completed are those being changed. Correction SIDRs must be signed in the space following the "SIDR Correction" box by the individual authorizing the change. If the Abstract or Severity is being changed, that person must be either the one who originally approved the SIDR or a member of the Home Office Field Engineering Software Support staff.

SIDR DISPOSITION

SIDR instigated changes are disseminated to all appropriate Xerox field personnel either on existing patch files, on special patch tapes distributed by Software Services, or on printed Technical Bulletins. SIDRs closed by the release of a product are listed in the Program Description (-11) for that product.

GENERAL PROCESSING

An incoming SIDR is received by the SIDR Administrator and scanned for completeness. Fields B - U on attached SIDR form must be complete. All of these fields are necessary for SIDR processing. Documentation is required for Severity 1 - 4 problems. Language Processor SIDRs need a test case on cards or mag tape for all Severities 2 - 4; lack of a test case will be cause for rejection unless the approving analyst has indicated a test case is inappropriate. Should K be left blank (as in the case with SIDRs against operating systems), the program catalog number will be made that of the System Catalog number by the SIDR Administrator. The field analyst must include his signature in the box for "Approval Signature". The SIDR Administrator assigns a unique identification number and stamps the date received in the "Date Received" area (upper right-hand corner). The SIDR is then entered into the SIDR database (open status).

PROCEDURE

After the SIDR number is assigned - the SIDR form is separated and processed. The white copy is sent to the organization responsible for the product with the associated documentation -- the green copy is kept by the SIDR Administrator for database entry and the remaining copies are used for acknowledgment purposes. Acknowledgments are mailed within one day of receipt of the SIDR. The canary copy is sent to the SIDR originator. The pink copy is sent to the Regional Software Support Manager or if Home Office originated, to the analyst or supervisor. The goldenrod should be kept by the originator; if sent it will be returned with the Acknowledgment.

Once the Acknowledgment has been received, information on the SIDR can be obtained using the SIDR Information System On-Line Statistics and Tracking - Non-Privileged Inquiry capability (NSS 69-03-04). A customer should consult with his field analyst for this information.

Whenever a customer originated SIDR is closed or pended, a letter addressed to the originator will be sent to the SIDR Administrator for processing. The District offices receive weekly all closed and pending information for SIDRs against major operating systems. The original letter is sent to the appropriate RSSM and a copy of the letter is filed. If a Technical Bulletin was generated, a copy of it is mailed along with the letter. The SIDR status is changed to pending or closed in the SIDR database.

Any corrections can be sent directly to the SIDR Administrator. The "SIDR Correction Authorized By" must have a check in the box and a signature next to it as described under "SIDR Corrections" above.

SIDR - Software Improvement or Difficulty Report

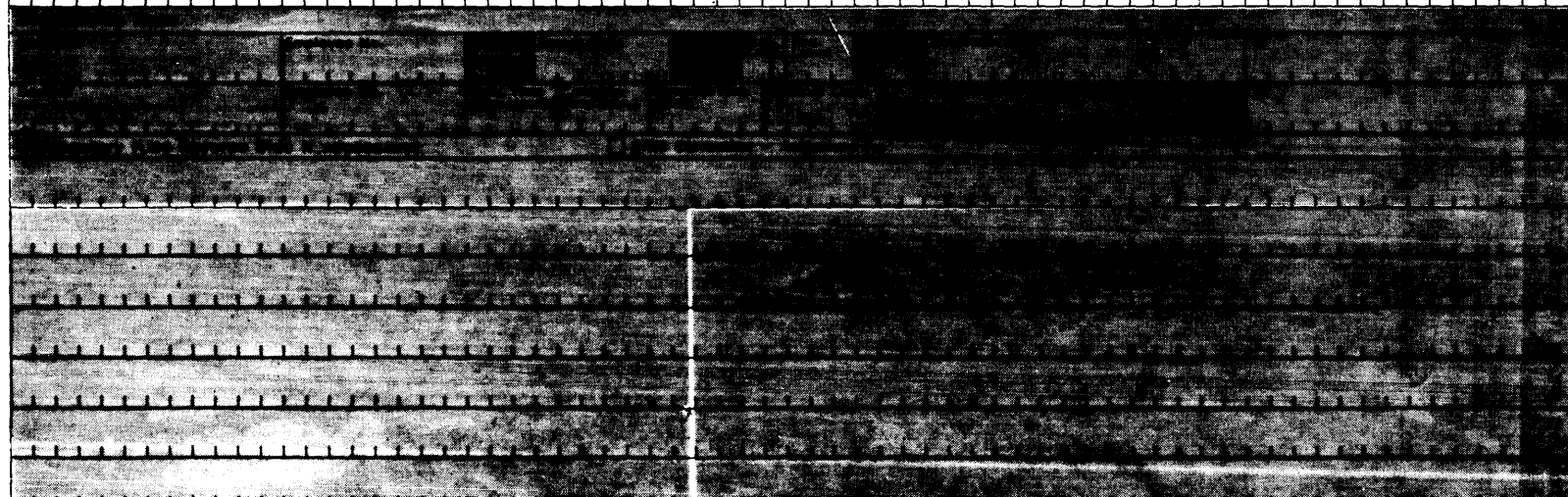
• Complete All Unshaded Areas

Sev. [Redacted]

Administrative				• Approval Signature: _____			
Originator's Name (C)	Originator's Company (D)	Date (E)	Documentation (Required For Sev. 1 - 4) (F)	<input type="checkbox"/> Source	<input type="checkbox"/> Dump	<input type="checkbox"/> Console Log	
			<input type="checkbox"/> Listing	<input type="checkbox"/> Object	<input type="checkbox"/> Other		
Originator's Address (G)	City (H)	State (I)	Zip Code (J)	Principal Cat. No. (K)	Vers. (L)	Principal Cat. No. Name (M)	
Installation No. (N)	Field Analyst (O)	Region (P)	Field Office (Q)	System Cat. No. (R)	Vers. (S)	CPU (T)	

Abstract (Attach Additional Sheet if Required)

(U)



1128(B-73) Xerox Corporation - El Segundo, California

White - Working Copy / Green - Software Control / Canary - Acknowledgment / Pink - Acknowledgment To Field Analyst / Goldenrod - Originator

Figure 4. SIDR Form

GENERAL INFORMATION

- A. SIDR No.: This is normally inserted by Software Services upon receipt of the SIDR.
- B. SEV: Indicate the severity level, as previously defined.
- C. Originator's Name: Last name and first initial of the originator.
- D. Originator's Company: Self explanatory.
- E. Origin Date: Date SIDR filled out by originator; MMDDYY format.
- F. Documentation Supplied: Indicate supportive material supplied - mandatory for severities 1-4.
- G. Originator's Address: Xerox employees must use mail station also.
- H. City: City or municipality.
- I. State: Indicate state or province and country.
- J. Zip Code: Required in USA and Canada; may not apply in foreign countries.
- K. Principal Catalog Number: The catalog or publication number which most closely represents the problem area being reported, e.g.; ANS COBOL (processor), 705888; BASIC Reference Manual, 901546; Symbiont (CP-V Functional Area) 707011. All products listed as Class A1, A2, B1 or B2 are SIDRable. Refer to Table 3 for additional SIDRable numbers. This field is mandatory for all SIDRs.
- L. Vers: Enter the latest version of the principal catalog number, e.g., B02.
- M. Principal Catalog Number Name: The name associated with the Principal Catalog Number.
- N. Installation Number: Required for all SIDRs. A unique seven digit number assigned when the computer was installed. This field is optional for Xerox - El Segundo employees.
- O. Field Analyst: Last name and first initial of local field analyst, or immediate supervisor if the originator is a Xerox employee.
- P. Region: Indicates the originator's region. The following apply:
- | | |
|----|---|
| WE | Western Region |
| CE | Central Region |
| EA | Eastern Region |
| CI | Corp Inv. Serv. Dist. |
| IO | International Operations |
| XC | Xerox of Canada, Ltd. |
| HO | Home Office (El Segundo), other than
Computer Center (CCD) |
| IC | Intra-Company (XCS & CCD) |
| RX | Rank Xerox Ltd. |
- Q. Field Office: Mandatory for all SIDRs. Indicate the field analyst's local office, use the standard abbreviations in Table 4. For Home Office, indicate department number.
- R. System Catalog Number: Enter the catalog number of the operating system being used for Program SIDRs. For instance, a SIDR on a CP-V Processor would contain 707000. If no operating system is applicable, e.g. SIDRs against publications, this field may be left blank. In all other cases, this field is mandatory. Refer to Table 3 for a list of the valid System Catalog Numbers.
- S. Vers: Enter the version of the operating system being referenced, e.g., D00.
- T. CPU: Model to which the SIDR applies, e.g., SIG7, 530, etc.
- U. Abstract: A description of the difficulty or suggested improvement. If a suggested program change or patch is supplied, it should be entered following the abstract. If additional space is required, the descriptive text can be continued on the reverse side of the white copy only, or a separate sheet.

TABLE 1. STANDARD CODES FOR STATES

<u>CODE</u>	<u>STATE</u>	<u>CODE</u>	<u>STATE</u>
AL	Alabama	MT	Montana
AK	Alaska	NB	Nebraska
AZ	Arizona	NV	Nevada
AR	Arkansas	NH	N. Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NY	New York
DE	Delaware	NC	N. Carolina
DC	D of Columbia	ND	N. Dakota
FL	Florida	OH	Ohio
GA	Georgia	OK	Oklahoma
HI	Hawaii	OR	Oregon
ID	Idaho	PA	Pennsylvania
IL	Illinois	RI	Rhode Island
IN	Indiana	SC	S. Carolina
IA	Iowa	SD	S. Dakota
KS	Kansas	TN	Tennessee
KY	Kentucky	TX	Texas
MA	Massachusetts	VT	Vermont
ME	Maine	VA	Virginia
MD	Maryland	WA	Washington
MI	Michigan	WV	W. Virginia
MN	Minnesota	WI	Wisconsin
MO	Missouri	WY	Wyoming
MS	Mississippi		

TABLE 2. REGION & DISTRICT ABBREVIATIONS

<u>REGION OR DISTRICT</u>	<u>REGION CODE</u>	<u>DISTRICT CODE</u>
WESTERN	WE	REG
Tech Support (Reg. Lib.)	WE	TS
Los Angeles	WE	LA
Northwest	WE	NW
Southwest	WE	SW
CENTRAL	CE	REG
Tech Support	CE	TS
Chicago	CE	CGO
Detroit	CE	DET
Rochester	CE	ROCH
Atlanta	CE	ATLA
EASTERN	EA	REG
Eastern Tech Center	EA	ETC
New York City	EA	NY
New York Metro	EA	NYG
Boston	EA	LEX
Columbia	EA	COL
Philadelphia	EA	FTWA
Rosslyn	EA	RSLYN
INTRA-COMPANY	IC	REG
Regional Operations	IC	OP
El Segundo	IC	ELSEG
Internal	IC	INTER
INTERNATIONAL	IO	
XEROX OF CANADA	XC	

Table 3.

System Catalog Numbers

704142	Stand Alone Operating System (5/7)
704144	BCM Operating System (5/7)
704457	BCM Operating System (2/3)
704955	Stand Alone Operating System (2)
705000	BPM/BTM Operating System
705368	RBM Operating System (2/3)
705732	RBM Operating System (5/7)
707000	CP-V Operating System

SIDRs may be written against any supported products which are those listed as Class A1, A2, B1 or B2 in the PAL Manual.

The following list represents other program catalog numbers under the CP-V Operating System which are also SIDRable. Note: These do not represent orderable software items but are merely used to facilitate SIDRing CP-V.

<u>PROG. CAT. NO.</u>	<u>AREA NAME</u>	<u>INCLUDED FUNCTIONS</u>
707001	File Maintenance	BACKUP/FILE, FSAVE/RESTORE
707002	File Management	All File Management functions, handlers and file inconsistencies
707003	System Management	Scheduler, STEP, Memory Management, Swapper, SEGLOAD, LDLNK, ALLOCAT, and GERM
707004	Communications	COC and remote batch
707005	Recovery	RECOVERY, ANALYZE and HGPRECON
707006	Software Checks	All software checks or screeches
707007	Operator Communications	KEYIN
707008	SYSGEN	PASS1, PASS2, LOCCT, DEF
707009	DEBUG Tools	DELTA, XDELTA, PMD, swaps and user dump facilities
707010	LOADERS	LOAD, LINK
707011	SYMBIONT	Symbionts and cooperatives
707012	Accounting & Performance	SUPER, ACCTSUM, LOGON, RATES CONTROL, and UTSPM
707013	Monitor Services	PROCs, CALs, and CALPROC
707014	Initialization	SYSMAK, GHOST1, and DRSP
707015	Reliability	ERRSUM, ERRFIL, ERRLOG
707016	Command Processors	CCI and TEL
707017	Utility Processors	PCL, EDIT, DEFCON, SYMCON, ERRMWR
707018	Miscellaneous	Error message file, Mailbox, and JIT

TABLE 4. XEROX FIELD OFFICE LOCATIONS AND ABBREVIATIONS

ALBY	Albany, New York
ALBQ	Albuquerque, New Mexico
ARL 10	Arlington, Virginia (District Office)
ARL.HTS	Arlington Heights, Virginia
XXARL	Arlington, Virginia (Regional Office)
ASD	Rochester, New York (Applications Services)
ASD-M	Roch., New York (Applications Services, Monroe Ave.)
ATLA	Atlanta, Georgia
BERG	Oradell, New York (New York FE District Office)
BIRM	Birmingham, Alabama
BUF	Buffalo, New York
CALG	Calgary, Canada
CGO	Chicago, Illinois
CLEV	Cleveland, Ohio
COCO	Coco Beach, Florida
CLBAM	Columbia, Maryland
DAYT	Dayton, Ohio
DLS	Dallas, Texas (District Office)
IS/DLS	Dallas, Texas (Mockingbird Lane)
DNVR	Denver, Colorado
DET	Detroit, Michigan
DONMIL	Don Mills, Ontario, Canada
G RPS	Grand Rapids, Michigan
HOUS	Houston, Texas
HTSVL	Huntsville, Alabama
IPLS	Indianapolis, Indiana
JAX	Jacksonville, Florida
JKN-MS	Jackson, Mississippi
KC	Kansas City, Kansas
LEX	Lexington, Massachusetts (Boston District Office)
LOND	Rank Xerox, London
M-DEL	Marina Del Rey, California
MEMP	Memphis, Tennessee
MET	New Orleans, Louisiana
MMI	Miami, Florida
MILW	Milwaukee, Wisconsin
MPLS	Minneapolis, Minnesota
MTL	Montreal, Canada
MUC	Rank Xerox, Munich
NASH	Nashville, Tennessee
NWRK	Newark, New Jersey
NNEWS	Newport News, Virginia
NYC	New York City, New York (Sales)
ORG	Orange, California
ORL	Orlando, Florida
OTWA	Ottawa, Canada
PARC	Palo Alto Research Center
PHILA	Philadelphia, Pennsylvania (Sales)
PHILA FE	Philadelphia, Pennsylvania (Field Engineering)
PNX	Phoenix, Arizona
PGHPA	Pittsburgh, Pennsylvania
POM	Pomona, California
REX	Toronto, Canada
RICH-V	Richmond, Virginia
RLGH	Raleigh, North Carolina
ASD	Rochester, New York (Applications Services)
ROCH 132	Rochester, New York (Rochester District Office)
ROCH EEC	Rochester, New York (Eastern Education Center)
ROCH RTC	Rochester, New York (Rochester Tech. Center)
XXROCH	Rochester, New York (Xerox Square)
XXROCH(WEB)	Webster, New York
RSLYN	Roslyn, Virginia
SAC	Sacramento, California
SANA	Santa Ana, California
SC	Santa Clara, California (San Francisco District Office)
SD	San Diego, California
SF	San Francisco, California
SLK	Salt Lake City, Utah
SEAT	Seattle, Washington

STL	St. Louis, Missouri
SYR	Syracuse, New York
TLSA	Tulsa, Oklahoma
TUST	Tustin, California
TURIN	G. Brignolo (Turin, Italy)
VNUYS	Van Nuys, California
XXROCH(WEB)	Webster, New York
WILM	Wilmington, Delaware
WH P	White Plains, New York
XCS	Xerox Computer Services

Quality Control Questionnaire

This questionnaire is sent with all software orders. We welcome all comments that will help us to improve the quality of our service.

Xerox Corporation
 701 South Aviation Boulevard
 El Segundo, California 90245
 213 679-4511



Quality Control Questionnaire

Software Library/Distribution

Request No.	Date Requested	Date Received	Yes No <input type="checkbox"/> <input type="checkbox"/> was order request complete? <input type="checkbox"/> <input type="checkbox"/> was your request addressed correctly - if not, please indicate correct address below.	
Please use this postage-paid questionnaire to comment on the condition of materials received from the Software Library. Your comments will result in continued improvement in the quality of our service. [_____] [_____]			Cards Yes No <input type="checkbox"/> <input type="checkbox"/> were cards physically damaged? <input type="checkbox"/> <input type="checkbox"/> were cards off-punched? <input type="checkbox"/> <input type="checkbox"/> were cards missing or shuffled?	
			Magnetic Tape Yes No <input type="checkbox"/> <input type="checkbox"/> was magnetic tape physically damaged? <input type="checkbox"/> <input type="checkbox"/> was tape correct according to literature request (i.e., BPI, track)?	
			Paper Tape Yes No <input type="checkbox"/> <input type="checkbox"/> was paper tape physically damaged? <input type="checkbox"/> <input type="checkbox"/> was paper tape mispunched?	
			Please indicate any items missing from your program request (by Catalog No.). We will ship them against your original request. ➔	
Catalog Numbers		Xerox Branch Office	Installation No.	
Comments				
Signature				

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STATUS INFORMATION SECTION

All currently orderable software, identified by its respective program catalog number, is numerically listed in this section. The first line of each entry consists of a six-digit program catalog number and a two-letter revision code (for internal use), followed by a program classification code, the name of the applicable computer, and the program title.

The program catalog number with each of its program elements, version level and description appear as indented entries under the main catalog line.

A sample status entry is shown below.

```
704145 AC B1 SIG 5/7/8 Absolute Bootstrap Loader
  704145-11 C00 Description Printed
  704145-23 C00 Relocatable Binary Paper Tape, 8 levels
  704145-24 C00 704357-26* Relocatable Binary Cards
  704145-34 C00 704357-36* Source Cards
  704145-83 C00 Absolute Binary Paper Tape, 8 levels
  704145-84 C00 Absolute Binary Cards
```

* The second six- or eight-digit number sometimes appearing opposite a program element is referred to as a "point to" number. When the "point to" number appears, it must be the one ordered to obtain that particular program element.

CAUTION: The description of a program element with a "point to" number is always that of the primary element number rather than that of the "point to" number. Therefore, a check of the main status list entry for program element 704357-26 in the above example shows that it is "Relocatable Binary Mag Tape, 9 channels" instead of "Relocatable Binary Cards". ALWAYS CHECK THE APPROPRIATE PROGRAM SUMMARY FOR ADDITIONAL INFORMATION.

To order the relocatable binary forms of the Absolute Bootstrap Loader, specify:

```
704145-23 C00 Relocatable Binary Paper Tape
704145-24 C00 Relocatable Binary Cards
704357-26 H01 Relocatable Binary Mag Tape
              (Sigma 5/7 Basic Software Mag Tape)
```

To order the source form of this program specify:

```
704357-36 H01 Source Mag Tape
              (Sigma 5/7 Basic Software Mag Tape)
```

704000AB	B3 SIGMA 2	I/O TEST UTILITY PROGRAM
704000-11B00	901127	DESCRIPTION PRINTED
704000-51B00	901127	LISTING PRINTED
704000-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704000-84B00		ABSOLUTE BINARY CARDS
901127		SIGMA 2 I/O TEST UTILITY PROGRAM DIAGNOSTIC PROGRAM MANUAL
704001AD	B1 SIGMA 2/3-530	GRAPH PLOTTER TEST
704001-11C01	901517	DESCRIPTION PRINTED
704001-51C01	901517	LISTING PRINTED
704001-83C01		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704001-84C01		ABSOLUTE BINARY CARDS
901517		SIGMA 2/3 GRAPH PLOTTER DIAGNOSTIC PROGRAM MANUAL
704002A0	B3 SIGMA 2/3	CPU INTERRUPT DIAGNOSTIC
704002-51E02	901137	LISTING PRINTED
704002-83E02		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704002-84E02		ABSOLUTE BINARY CARDS
901137		SIGMA 2 EXTERNAL INTERRUPT DIAGNOSTIC PROGRAM MANUAL
704004AC	B3 SIGMA 5-9	KEYBOARD DISPLAY DIAGNOSTIC
704004-11C01	901507	DESCRIPTION PRINTED
704004-83C00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704004-84C00		ABSOLUTE BINARY CARDS
901507		DIAGNOSTIC PROGRAM MANUAL SIGMA 5/7 KEYBOARD DISPLAY DIAO.
704005AA	B3 SIGMA 2/3	GRAPH PLOTTER HANDLER (PLOT)
704005-11A00		DESCRIPTION PRINTED
704005-23A00		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704005-24A00		RELOCATABLE BINARY CARDS
704005-34A00		SOURCE CARDS
704006AD	B3 SIGMA 2	INTEGRAL IOP AND WD INTERFACE TEST
704006-51D00	901131	LISTING PRINTED
704006-83D00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704006-84D00		ABSOLUTE BINARY CARDS
901131		SIGMA 2 INTEGRAL IOP + WRITE DIRECT INTERFACE DIAO PROG MAN
704011AE	B3 SIGMA 2	CPU DIAGNOSTIC SYSTEM (AUTO)
704011-51E00	901007	LISTING PRINTED
704011-83E00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704011-84E00		ABSOLUTE BINARY CARDS
704012AB	B3 SIGMA 2/3	KEYBOARD DISPLAY DIAGNOSTIC
704012-11B00	901508	DESCRIPTION PRINTED
704012-51B00	901508	LISTING PRINTED
704012-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704012-84B00		ABSOLUTE BINARY CARDS
901508		DIAGNOSTIC PROGRAM MANUAL SIGMA 2 KEYBOARD DISPLAY DIAO.
704013AH	B1 SIGMA 5-9	DATA-SET CONTROLLER DIAGNOSTIC
704013-11D03	901509	DESCRIPTION PRINTED
704013-51D03	901509	LISTING PRINTED
704013-83D03		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704013-84D03		ABSOLUTE BINARY CARDS
704014AL	B1 SIGMA 2/3-530	CHARACTER ORIENTED COMMUNICATION TEST
704014-11E07	901168	DESCRIPTION PRINTED
704014-83E07		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704014-84E07		ABSOLUTE BINARY CARDS
704015AD	B3 SIGMA 2/3	KEYBOARD PRINTER TEST
704015-11C01	901163	DESCRIPTION PRINTED
704015-51C01	901163	LISTING PRINTED
704015-83C01		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704015-84C01		ABSOLUTE BINARY CARDS
901163		SIGMA 2 KEYBOARD PRINTER TEST DIAGNOSTIC PROGRAM MANUAL

704016AJ	B1 SIGMA 5-9	CHARACTER ORIENTED COMMUNICATION TEST
704016-11002	901156	DESCRIPTION PRINTED
704016-51002	901156	LISTING PRINTED
704016-83002		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704016-84002		ABSOLUTE BINARY CARDS
704017AF	B3 SIGMA 5/7	REAL-TIME CLOCK TEST
704017-83F00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704017-84F00		ABSOLUTE BINARY CARDS
901136		SIGMA 5/7 REAL-TIME CLOCK TEST DIAGNOSTIC PROGRAM MANUAL
704018AB	B3 SIGMA 5	INTEGRAL IOP CHANNEL TEST PROGRAM
704018-51B00	901161	LISTING PRINTED
704018-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704018-84B00		ABSOLUTE BINARY CARDS
901161		SIGMA 5 INTEGRAL IOP CHANNEL TEST DIAGNOSTIC PROGRAM MANUAL
704022AG	B3 SIGMA 2/3	MEMORY PROGRAM - MEDIC
704022-11D03	900676	DESCRIPTION PRINTED
704022-51D03	900676	LISTING PRINTED
704022-83D03		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704022-84D03		ABSOLUTE BINARY CARDS
900676		SIGMA 2 MEMORY DIAGNOSTIC SYSTEM (MEDIC 2) DIA. PROG. MAN.
704024AF	B1 SIGMA 2/3-530	PAPER TAPE READER-PUNCH TEST
704024-11C03	901155	DESCRIPTION PRINTED
704024-83C03		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704024-84C03		ABSOLUTE BINARY CARDS
901155		DIAGNOSTIC PROGRAM MANUAL SIGMA 2 PAPER TAPE READER/PUNCH
704025AB	B3 SIGMA 2/3	DIAGNOSTIC CONTROL PROGRAM (DCP)
704025-11C00	900839	DESCRIPTION PRINTED
704025-44C00		COMPRESSED CARDS
704025-51C00	900839	LISTING PRINTED
900839		SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP) DIAGNOSTIC PROGRAM
704028AA	B3 SIGMA 2	COMMAND SYS 11, SECT 1-MESSAGE PROCESSOR
704028-11A00	980272	DESCRIPTION PRINTED
704028-23A00		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704028-44A00		COMPRESSED CARDS
704029AB	B3 SIGMA 5/7	FORMAT CONVERTER - CPU LOADER DOC.
704029-11B00	901584	DESCRIPTION PRINTED
704029-51B00	901584	LISTING PRINTED
704029-84B00		ABSOLUTE BINARY CARDS
901584		DIAG PROG MAN - SIG 5/7 CPU FORMAT CONV. - CPU LOADER DOC.
704030AC	B3 SIGMA 2	SIGMA 2 DIAGNOSTIC BINARY GENERATOR
704030-11C00	901124	DESCRIPTION PRINTED
704030-44C00		COMPRESSED CARDS
704030-51C00	901124	LISTING PRINTED
704030-83C00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704030-84C00		ABSOLUTE BINARY CARDS
901124		SIGMA 2 DIAGNOSTIC BINARY GENERATOR (2DIBIGEN) DIA. PROG.
704034AA	B3 SIGMA 2	COMMAND SYS 11, SECT 3-TONE/DIGITAL TAPE
704034-11A00	980272	DESCRIPTION PRINTED
704034-23A00		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704034-44A00		COMPRESSED CARDS
704035AA	B3 SIGMA 2	COMMAND SYS 11, SECT 4-FSK TEST
704035-11A00	980272	DESCRIPTION PRINTED
704035-23A00		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704035-44A00		COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

704036AA	B3	SIGMA 2	COMMAND SYS 11, SECT 5-TONES DIGITAL TEST
704036-11A00	980272		DESCRIPTION PRINTED
704036-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704036-44A00			COMPRESSED CARDS
704037AA	B3	SIGMA 2	COMMAND SYS 11, SECT 8-10 CONTROL/UTILITY
704037-11A00	980272		DESCRIPTION PRINTED
704037-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704037-44A00			COMPRESSED CARDS
704038AA	B3	SIGMA 2	COMMAND SYS 1, SECT 1- UTILITY AND 10
704038-11A00	980272		DESCRIPTION PRINTED
704038-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704038-44A00			COMPRESSED CARDS
704042AE	B3	SIGMA 5/7	CPU DIAGNOSTIC SYSTEM (VERIFY)
704042-51D00	900870		LISTING PRINTED
704042-83D00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704042-84D00			ABSOLUTE BINARY CARDS
900870			DIAGNOSTIC PROGRAM MANUAL SIGMA 7 CPU DIAG. SYSTEM (VERIFY)
704043AG	B3	SIGMA 5/7	CPU DIAGNOSTIC SYSTEM (PATTERN)
704043-11D03	900891		DESCRIPTION PRINTED
704043-51D03	900891		LISTING PRINTED
704043-83D03			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704043-84D03			ABSOLUTE BINARY CARDS
900891			SIGMA 7 CPU DIAGNOSTIC SYSTEM (PATTERN) DIAG. PROG. MANUAL
704044AF	B3	SIGMA 7	CPU DIAGNOSTIC SYSTEM (AUTO)
704044-51D02	900872		LISTING PRINTED
704044-74D02			REFORMATTED BINARY CARD DECK
704044-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704044-84D02			ABSOLUTE BINARY CARDS
704045AD	B3	SIGMA 7	CPU DIAGNOSTIC SYSTEM (SUFFIX)
704045-51C00	900893		LISTING PRINTED
704045-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704045-84C00			ABSOLUTE BINARY CARDS
704046AI	B3	SIGMA 5/7	CPU DIAGNOSTIC SYSTEM (FLOAT)
704046-11D01	900898		DESCRIPTION PRINTED
704046-51D01	900898		LISTING PRINTED
704046-83D01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704046-84D01			ABSOLUTE BINARY CARDS
704047AE	B3	SIGMA 7	CPU DIAGNOSTIC SYSTEM (DECIMAL)
704047-11C02	900908		DESCRIPTION PRINTED
704047-51C02	900908		LISTING PRINTED
704047-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704047-84C02			ABSOLUTE BINARY CARDS
704048AE	B3	SIGMA 7	CPU DIAGNOSTIC SYSTEM (MAP)
704048-51D02	900920		LISTING PRINTED
704048-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704048-84D02			ABSOLUTE BINARY CARDS
704050AE	B1	SIGMA 5-9	GRAPH PLOTTER TEST
704050-11C01	901518		DESCRIPTION PRINTED
704050-83C01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704050-84C01			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

704055AE	B1	SIGMA 2/3-530	DATA SET CONTROLLER DIAGNOSTIC
704055-11C02	901510		DESCRIPTION PRINTED
704055-51C02	901510		LISTING PRINTED
704055-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704055-84C02			ABSOLUTE BINARY CARDS
901510			DIAGNOSTIC PROGRAM MANUAL-SIGMA 2 DATA SET CONTROLLER DIAO.
704056AA	B3	SIGMA 2	COMMAND SYS I ,SECT 2-SWITCH LIGHT CNTRL
704056-11A00	980271		DESCRIPTION PRINTED
704056-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704056-44A00			COMPRESSED CARDS
704057AB	B3	SIGMA 5/7	MULTIPLEX IOP DIAGNOSTIC (MIOP)
704057-11B00	901126		DESCRIPTION PRINTED
704057-51B00	901126		LISTING PRINTED
704057-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704057-84B00			ABSOLUTE BINARY CARDS
901126			DIAGNOSTIC PROGRAM MANUAL SIGMA 7 MULTIPLEX IOP DIAO. (MIOP)
704060AA	B3	SIGMA 5/7	CALCOMP PLOTTING SUBROUTINE (PLOT)
704060-11A00			DESCRIPTION PRINTED
704060-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704060-24A00			RELOCATABLE BINARY CARDS
704060-34A00			SOURCE CARDS
704061AA	B3	SIGMA 5/7	CALCOMP PLOTTER LABELLING SUBR (LABEL)
704061-11A00			DESCRIPTION PRINTED
704061-24A00			RELOCATABLE BINARY CARDS
704061-34A00			SOURCE CARDS
704062AE	B3	SIGMA 5/7	MEMORY PROTECT DIAGNOSTIC
704062-11B00	901516		DESCRIPTION PRINTED
704062-51B00	901516		LISTING PRINTED
704062-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704062-84B00			ABSOLUTE BINARY CARDS
901516			SIGMA 5 AND 7 CPU DIAGNOSTIC PROGRAM (MEMORY PROTECT)
704067AH	B3	SIGMA 5/7	MEMORY DIAGNOSTIC (MEDIC 75)
704067-51D04	900825		LISTING PRINTED
704067-83D04			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704067-84D04			ABSOLUTE BINARY CARDS
900825			DIAG PROG MAN SIGMA 5/7 MEMORY (8K) TEST (MEDIC 75) PRELIM.
704069AG	B1	SIGMA 5-9	PAPER TAPE READER/PUNCH TEST
704069-51F01	901132		LISTING PRINTED
704069-83F01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704069-84F01			ABSOLUTE BINARY CARDS
901132			SIGMA 5/7 PAPER TAPE READER/PUNCH TEST PROGRAM DIAO. MANUAL
704070AB	B3	SIGMA 5-9	DIAGNOSTIC CONTROL PROGRAM (DCP)
704070-11C00	900712		DESCRIPTION PRINTED
704070-44C00			COMPRESSED CARDS
704070-51C00	900712		LISTING PRINTED
704070-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704070-84C00			ABSOLUTE BINARY CARDS
900712			DIAG CONTROL PROG FOR SIG 5/7 COMP. PERIPHERAL DEV.
704073AC	B3	SIGMA 2	STAND-ALONE RAD HANDLER
704073-11B00			DESCRIPTION PRINTED
704073-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704073-24B00			RELOCATABLE BINARY CARDS
704073-34B00			SOURCE CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

704074AD	B1	SIGMA 5-9	AUTO DIAL DIAGNOSTIC PROGRAM
704074-11C01	901511		DESCRIPTION PRINTED
704074-51C01	901511		LISTING PRINTED
704074-83C01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704074-84C01			ABSOLUTE BINARY CARDS
704121AB	B3	SIGMA 5/7	MEMORY INTERLEAVING TEST
704121-44B00			COMPRESSED CARDS
704121-51B00	901071		LISTING PRINTED
704121-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704121-84B00			ABSOLUTE BINARY CARDS
901071			DIAG PROG MAN - SIGMA 5/7 MEMORY INTERLEAVING TEST (MIT)
704122AH	B3	SIGMA 5/7	POWER FAIL SAFE TEST
704122-11C02	901135		DESCRIPTION PRINTED
704122-51C02	901135		LISTING PRINTED
704122-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704122-84C02			ABSOLUTE BINARY CARDS
704124AC	B1	SIGMA 5/7	CONTROL MESSAGE PROCESSOR
704124-23C00	704160-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704124-24C00	704160-84		RELOCATABLE BINARY CARDS
704124-34C00	704357-36		SOURCE CARDS
704127A0	B1	SIGMA 5/7	BCM/STAND-ALONE COMMON SOFTWARE PACKAGE
704127-11F00			DESCRIPTION PRINTED
704127-23F00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704127-24F00	704357-26		RELOCATABLE BINARY CARDS
704133AE	B1	SIGMA 5/7	MONITOR FOR BCM
704133-23E00	704127-23		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704133-24D00	704357-26		RELOCATABLE BINARY CARDS
704133-34E00	704357-36		SOURCE CARDS
704133-61E00			UPDATE INSTRUCTIONS PRINTED
704133-64E00			UPDATE ON CARDS
704139A8	B3	SIGMA 2/3	REAL TIME CLOCK TEST
704139-11E01	901164		DESCRIPTION PRINTED
704139-83E01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704139-84E01			ABSOLUTE BINARY CARDS
901164			SIGMA 2 REAL TIME CLOCK TEST DIAGNOSTIC PROGRAM MANUAL
704140AE	B3	SIGMA 2/3	POWER FAIL-SAFE TEST
704140-51D02	901160		LISTING PRINTED
704140-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704140-84D02			ABSOLUTE BINARY CARDS
901160			SIGMA 2 POWER FAIL-SAFE TEST PROGRAM DIAG. PROG. MANUAL
704142AE	B1	SIGMA 5/7	STAND-ALONE LOADER WITH I/O HANDLERS
704142-11E00	901053		DESCRIPTION PRINTED
704142-83E00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704142-84E00			ABSOLUTE BINARY CARDS
901053			SIGMA 5/7 STAND-ALONE SYSTEMS OPERATIONS
704143AF	B3	SIGMA 5/7	INTERRUPT DIAGNOSTIC (ID)
704143-11D02	901134		DESCRIPTION PRINTED
704143-51D02	901134		LISTING PRINTED
704143-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704143-84D02			ABSOLUTE BINARY CARDS
704144AC	B1	SIGMA 5/7	BCM OPERATING SYSTEM
704144-11C00			DESCRIPTION PRINTED
704144-24C00	704357-26		RELOCATABLE BINARY CARDS
704144-34C00	704357-36		SOURCE CARDS
900953			SIGMA 7 BASIC CONTROL MONITOR REFERENCE MANUAL

704145AC	B1	SIGMA 5/7	ABSOLUTE BOOTSTRAP LOADER
704145-11C00			DESCRIPTION PRINTED
704145-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704145-24C00			RELOCATABLE BINARY CARDS
704145-24C00		704357-26	RELOCATABLE BINARY CARDS
704145-34C00		704357-36	SOURCE CARDS
704145-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704145-84C00			ABSOLUTE BINARY CARDS
704146AE	B1	SIGMA 5/7	BASIC BCM ABS DUMP LOADER
704146-23E00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704146-24E00		704357-26	RELOCATABLE BINARY CARDS
704146-36E00		704357-36	SOURCE MAG TAPE, 9 CHANNELS
900953			SIGMA 7 BASIC CONTROL MONITOR REFERENCE MANUAL
704148AD	B1	SIGMA 5/7	UNIMPLEMENTED INST. SIM. PCK (S/A VERS)
704148-11A00			DESCRIPTION PRINTED
704148-23D00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704148-24D00		704357-26	RELOCATABLE BINARY CARDS
704149AC	B1	SIGMA 5/7	FLOATING POINT INST. SIMULATOR (S/A VERS)
704149-11A00		704148-11	DESCRIPTION PRINTED
704149-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704149-24C00		704357-26	RELOCATABLE BINARY CARDS
704149-34C00		704357-36	SOURCE CARDS
704150AC	B1	SIGMA 5/7	DECIMAL INSTRUCTION SIMULATOR (S/A VERS)
704150-11A00		704148-11	DESCRIPTION PRINTED
704150-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704150-24C00		704357-26	RELOCATABLE BINARY CARDS
704150-34C00		704357-36	SOURCE CARDS
704151AC	B1	SIGMA 5	BYTE-STRING INSTRUCTION SIMULATOR (S/A)
704151-11A00		704148-11	DESCRIPTION PRINTED
704151-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704151-24C00		704357-26	RELOCATABLE BINARY CARDS
704151-34C00		704357-36	SOURCE CARDS
704152AC	B1	SIGMA 5	CONVERT INSTRUCTION SIMULATOR (S/A)
704152-11A00		704148-11	DESCRIPTION PRINTED
704152-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704152-24C00		704357-26	RELOCATABLE BINARY CARDS
704152-34C00		704357-36	SOURCE CARDS
704153AC	B1	SIGMA 5/7	UNIMPL. INST. TRAP HANDLER (S/A VERS)
704153-11A00		704148-11	DESCRIPTION PRINTED
704153-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704153-24C00		704357-26	RELOCATABLE BINARY CARDS
704153-34C00		704357-36	SOURCE CARDS
704155AE	B1	SIGMA 5/7	S/A ABS DUMP LOADER WITH I/O HANDLERS
704155-83E00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704155-84E00			ABSOLUTE BINARY CARDS
901053			SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
704156AF	B1	SIGMA 2/3-530	AUTO DIAL EQUIPMENT PROGRAM
704156-11C03		901512	DESCRIPTION PRINTED
704156-51C03		901512	LISTING PRINTED
704156-83C03			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704156-84C03			ABSOLUTE BINARY CARDS
901512			DIAGNOSTIC PROGRAM MANUAL, SIGMA 2 AUTO DIAL EQUIPMENT

704157AB	B1	SIGMA 5/7	S/A GENERAL DEBUG SUBROUTINE
704157-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704157-24B00			RELOCATABLE BINARY CARDS
704157-24B00		704357-26	RELOCATABLE BINARY CARDS
704157-34B00		704357-36	SOURCE CARDS
901053			SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
704158AH	B1	SIGMA 5/6/7	SYMBOL ASSEMBLER FOR BCM
704158-11H00		900952	DESCRIPTION PRINTED
704158-23H00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704158-24H00			RELOCATABLE BINARY CARDS
900952			SIGMA 5/6/7 SYMBOL/META-SYMBOL REFERENCE MANUAL
900953			SIGMA 7 BASIC CONTROL MONITOR MANUAL
704159AH	B1	SIGMA 5/6/7	SYMBOL ASSEMBLER FOR BPM/BTM
704159-11H00			DESCRIPTION PRINTED
704159-26H00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704159-46H00		704159-26	COMPRESSED MAG TAPE, 9 CHANNELS
900952			SIGMA 5/6/7 SYMBOL/META-SYMBOL REFERENCE MANUAL
704160A1	B1	SIGMA 5/7	STAND-ALONE SYMBOL ASSEMBLER
704160-11H00			DESCRIPTION PRINTED
704160-83H00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704160-84H00			ABSOLUTE BINARY CARDS
901790			SIGMA 5/7 SYMBOL REFERENCE MANUAL
901053			SIGMA 5/7 STAND-ALONE SYSTEM OPERATIONS MANUAL
704161AB	B3	SIGMA 2	STAND-ALONE MATH LIBRARY (COVER)
704161-11B00			DESCRIPTION PRINTED
704161-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704161-24B00			RELOCATABLE BINARY CARDS
704161-36B00			SOURCE MAG TAPE, 9 CHANNELS
704162AC	B1	SIGMA 5/7	STAND-ALONE SYSTEM LOADER
704162-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704162-24C00			RELOCATABLE BINARY CARDS
704162-24C00		704357-26	RELOCATABLE BINARY CARDS
704162-34C00		704357-36	SOURCE CARDS
704162-83C00		704160-83	ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704162-84C00		704160-84	ABSOLUTE BINARY CARDS
704163AA	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR BONO
704163-23A00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704163-24A00		704160-84	RELOCATABLE BINARY CARDS
704163-24A00		704357-26	RELOCATABLE BINARY CARDS
704163-34A00		704357-36	SOURCE CARDS
704164AA	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR LONO
704164-23A00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704164-24A00		704160-84	RELOCATABLE BINARY CARDS
704164-24A00		704357-26	RELOCATABLE BINARY CARDS
704164-34A00		704357-36	SOURCE CARDS
704165AC	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR LOLP
704165-23C00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704165-24C00		704160-84	RELOCATABLE BINARY CARDS
704165-24C00		704357-26	RELOCATABLE BINARY CARDS
704165-34C00		704357-36	SOURCE CARDS
704166AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR LOMT
704166-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704166-24B00		704160-84	RELOCATABLE BINARY CARDS
704166-24B00		704357-26	RELOCATABLE BINARY CARDS
704166-34B00		704357-36	SOURCE CARDS

704167AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR LOTY
704167-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704167-24B00		704160-84	RELOCATABLE BINARY CARDS
704167-24B00		704357-28	RELOCATABLE BINARY CARDS
704167-34B00		704357-38	SOURCE CARDS
704168AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR SICR
704168-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704168-24B00		704160-84	RELOCATABLE BINARY CARDS
704168-34B00		704357-38	SOURCE CARDS
704169AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR SIMT
704169-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704169-24B00		704160-84	RELOCATABLE BINARY CARDS
704169-34B00		704357-38	SOURCE CARDS
704170AC	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR SIPR
704170-23C00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704170-24C00		704160-84	RELOCATABLE BINARY CARDS
704170-34C00		704357-38	SOURCE CARDS
704171AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR BOPP
704171-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704171-24B00		704160-84	RELOCATABLE BINARY CARDS
704171-34B00		704357-38	SOURCE CARDS
704172AC	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR B0CP
704172-23C00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704172-24C00		704160-84	RELOCATABLE BINARY CARDS
704172-24C00			RELOCATABLE BINARY CARDS
704172-34C00		704357-38	SOURCE CARDS
704173AB	B1	SIGMA 5/7	STAND-ALONE I/O HANDLER FOR B0MT
704173-23B00		704160-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704173-24B00		704160-84	RELOCATABLE BINARY CARDS
704173-34B00		704357-38	SOURCE CARDS
704174AE	B3	SIGMA 5	SIGMA 5 CPU DIAGNOSTIC (SUFFIX)
704174-11C00		901519	DESCRIPTION PRINTED
704174-51C00		901519	LISTING PRINTED
704174-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704174-84C00			ABSOLUTE BINARY CARDS
901519			DIAGNOSTIC PROGRAM MANUAL - SIGMA 5 CPU DIAGNOSTIC SUFFIX
704183AB	B3	SIGMA 2	DEBUG WITH TRACE
704183-11A00			DESCRIPTION PRINTED
704183-23A01			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704183-24A01			RELOCATABLE BINARY CARDS
704209AA	B3	SIGMA 2	COMMAND SYS 1, SECT 4-TELEMETRY AND TONES
704209-11A00		980271	DESCRIPTION PRINTED
704209-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704209-44A00			COMPRESSED CARDS
704210A1	B1	SIGMA 2/3-530	7930/7931/7935 SIU DIGITAL DIAGNOSTIC
704210-11H00			DESCRIPTION PRINTED
704210-44H00			COMPRESSED CARDS
704210-83H00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704210-84H00			ABSOLUTE BINARY CARDS
704211AF	B1	SIGMA 5/7	7930/7931/7935 SIU DIAGNOSTIC PROGRAM
704211-11C00			DESCRIPTION PRINTED
704211-44C00			COMPRESSED CARDS
704211-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704211-84C00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

704213AC	B1	SIGMA 2	7922 SIU DIAGNOSTIC PROGRAM
704213-11A00			DESCRIPTION PRINTED
704213-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704213-84A00			ABSOLUTE BINARY CARDS
704214AD	B1	SIGMA 5/7	7922 SIU DIAGNOSTIC PROGRAM
704214-11A00			DESCRIPTION PRINTED
704214-51A00		704214-11	LISTING PRINTED
704214-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704214-84A00			ABSOLUTE BINARY CARDS
704235AD	B1	SIGMA 2/3	7910/14/15 SIU DIAGNOSTIC PROGRAM
704235-11C00			DESCRIPTION PRINTED
704235-44C01			COMPRESSED CARDS
704235-61C01			UPDATE INSTRUCTIONS PRINTED
704235-84C01			ABSOLUTE BINARY CARDS
704236AF	B1	SIGMA 5/7	7910/14/15 SIU DIAGNOSTIC PROGRAM
704236-11C00			DESCRIPTION PRINTED
704236-44C00			COMPRESSED CARDS
704236-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704236-84C00			ABSOLUTE BINARY CARDS
704285AA	B1	SIGMA 2	GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM
704285-11AP2			DESCRIPTION PRINTED
704285-83AP2			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704285-84AP2			ABSOLUTE BINARY CARDS
704287AJ	B3	SIGMA 5	CPU DIAGNOSTIC - AUTO
704287-11F00		901523	DESCRIPTION PRINTED
704287-51F00		901523	LISTING PRINTED
704287-73F00			REFORMATTED-SELF LOADING TAPE
704287-74F00			REFORMATTED-SELF LOADING BINARY DECK
704287-83F00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704287-84F00			ABSOLUTE BINARY CARDS
704314AE	B1	SIGMA 5-9	PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC
704314-11D01		901539	DESCRIPTION PRINTED
704314-51D01		901539	LISTING PRINTED
704314-83D01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704314-84D01			ABSOLUTE BINARY CARDS
901539			DIAG PROG MAN - SIGMA 5/7 PERIPHERAL SWITCHING EQUIP. DIAO.
704320AA	B3	SIGMA 2	MASS STORAGE DISC FILE TEST PROGRAM
704320-11A00			DESCRIPTION PRINTED
704320-44A00			COMPRESSED CARDS
704320-51A00		704320-11	LISTING PRINTED
704320-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704320-84A00			ABSOLUTE BINARY CARDS
704340AF	B3	SIGMA 5-9	CFE-3 TEST
704340-11D02		901535	DESCRIPTION PRINTED
704340-51D02		901535	LISTING PRINTED
704340-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704340-84D02			ABSOLUTE BINARY CARDS
901535			DIAGNOSTIC PROGRAM MANUAL-SIGMA 5/7 CFE-3
704341AA	B3	SIGMA 5/7	PURDUE SPECIAL ANALOG INPUT SUBSYSTEM
704341-11A00			DESCRIPTION PRINTED
704341-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704341-24A00			RELOCATABLE BINARY CARDS
704341-44A00			COMPRESSED CARDS

704342AA	B3	SIGMA 2/3	REAL-TIME CLOCK 1 FOREGROUND DEMO
704342-11A00			DESCRIPTION PRINTED
704342-33A00			SOURCE PAPER TAPE, 8 LEVELS
704342-34A00			SOURCE CARDS
704344AA	B3	SIGMA 2	COMMAND SYS 1 ,SECT 5-TONES DIGITAL/FSK
704344-11A00		980271	DESCRIPTION PRINTED
704344-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704344-44A00			COMPRESSED CARDS
704345AA	B3	SIGMA 2	COMMAND SYS 1 ,SECT 6-PROGRAM GENERATOR
704345-11A00		980271	DESCRIPTION PRINTED
704345-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704345-44A00			COMPRESSED CARDS
704346AA	B3	SIGMA 2	COMMAND SYS 1 ,SECT 7-DATA BASE OVERLAY
704346-11A00		980271	DESCRIPTION PRINTED
704346-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704346-44A00			COMPRESSED CARDS
704347AA	B3	SIGMA 2/3	BCM BACKGROUND DEMONSTRATION PROGRAMS
704347-11A00			DESCRIPTION PRINTED
704347-33A00			SOURCE PAPER TAPE, 8 LEVELS
704347-34A00			SOURCE CARDS
704348AA	B3	SIGMA 2	TAPE TEST PROGRAM
704348-11A00			DESCRIPTION PRINTED
704348-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704348-24A00			RELOCATABLE BINARY CARDS
704348-34A00			SOURCE CARDS
704348-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704348-84A00			ABSOLUTE BINARY CARDS
704356A0	B3	SIGMA 5-9	RELOCATABLE DIAGNOSTIC PROGRAM LOADER
704356-11E02		900972	DESCRIPTION PRINTED
704356-51E02		900972	LISTING PRINTED
704356-84E02			ABSOLUTE BINARY CARDS
900972			SIGMA 5/7 RELOCATABLE DIAGNOSTIC PROGRAM LOADER MANUAL
704357A1	B1	SIGMA 5/7	BASIC SOFTWARE MAGNETIC TAPES
704357-11H01			DESCRIPTION PRINTED
704357-26H01			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704357-36H01			SOURCE MAG TAPE, 9 CHANNELS
704362AC	B1	SIGMA 5/7	UNIMPLEMENTED INST. SIM. PKG. BCM VERS.
704362-11C00			DESCRIPTION PRINTED
704362-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704362-24C00		704357-26	RELOCATABLE BINARY CARDS
704363AC	B1	SIGMA 5/7	FLOATING POINT INST. SIMULATOR (BCM VER)
704363-11C00		704362-11	DESCRIPTION PRINTED
704363-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704363-24C00		704357-26	RELOCATABLE BINARY CARDS
704363-34C00		704357-36	SOURCE CARDS
704364AC	B1	SIGMA 5/7	DECIMAL INSTRUCTION SIMULATOR (BCM VER.)
704364-11C00		704362-11	DESCRIPTION PRINTED
704364-23C00		704127-23	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704364-24C00		704357-26	RELOCATABLE BINARY CARDS
704364-34C00		704357-36	SOURCE CARDS

704365AC B1 SIGMA 5 BYTE-STRING INSTRU. SIMULATOR (BCM VER)
 704365-11C00 704362-11 DESCRIPTION PRINTED
 704365-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 704365-24C00 704357-26 RELOCATABLE BINARY CARDS
 704365-34C00 704357-36 SOURCE CARDS

704366AC B1 SIGMA 5 CONVERT INSTRUCTION SIMULATOR (BCM)
 704366-11C00 704362-11 DESCRIPTION PRINTED
 704366-23C00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 704366-24C00 704357-26 RELOCATABLE BINARY CARDS
 704366-34C00 704357-36 SOURCE CARDS

704367AD B1 SIGMA 5/7 STAND-ALONE I/O CONTROL PROGRAM (SALIO)
 704367-23D00 704127-23 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 704367-24D00 704357-26 RELOCATABLE BINARY CARDS
 704367-34D00 704357-36 SOURCE CARDS

704375AA B1 SIGMA 5/7 MAGNETIC TAPE EDITOR - UTILITY
 704375-11A00 DESCRIPTION PRINTED
 704375-24A00 RELOCATABLE BINARY CARDS
 704375-34A00 704397-36 SOURCE CARDS

704396AA B1 SIGMA 5/7 COPY AND SEQUENCE PROGRAM - UTILITY
 704396-11A00 DESCRIPTION PRINTED
 704396-24A00 RELOCATABLE BINARY CARDS
 704396-34A00 704397-36 SOURCE CARDS

704397AD B1 SIGMA 5/7 UTILITY SOURCE-LISTING MAG TAPE
 704397-11D00 DESCRIPTION PRINTED
 704397-36D00 SOURCE MAG TAPE, 9 CHANNELS

704398AA B1 SIGMA 5/7 TAPE LIST PROGRAM - UTILITY
 704398-11A00 DESCRIPTION PRINTED
 704398-24A00 RELOCATABLE BINARY CARDS
 704398-34A00 704397-36 SOURCE CARDS

704422AA B1 SIGMA 5/7 PAPER TAPE COPY & VERIFY PROGRAM-UTILITY
 704422-11A00 DESCRIPTION PRINTED
 704422-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 704422-24A00 RELOCATABLE BINARY CARDS
 704422-34A00 704397-36 SOURCE CARDS

704427AA B3 SIGMA 5/7 JT-14 PET UNIT TEST PATTERN CARD DECK
 704427-74A00 DATA CARDS

704428AJ B1 SIGMA 5-9 META-SYMBOL ASSEMBLER (COVER)
 704428-11H01 DESCRIPTION PRINTED
 704428-26H01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 704428-46H01 704428-26 COMPRESSED MAG TAPE, 9 CHANNELS
 704428-76H01 704428-26 TEST PROGRAM ON MAG TAPE
 900952 SIGMA META-SYMBOL REFERENCE MANUAL

704442AA B1 SIGMA 5/7 CARD COPY AND VERIFY PROGRAM - UTILITY
 704442-11A00 DESCRIPTION PRINTED
 704442-23A00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 704442-24A00 RELOCATABLE BINARY CARDS
 704442-34A00 704397-36 SOURCE CARDS

704444AB B1 SIGMA 5/7 STAND-ALONE REGISTER SAVE GENERATOR
 704444-11B00 DESCRIPTION PRINTED
 704444-24B00 RELOCATABLE BINARY CARDS
 704444-34B00 704397-36 SOURCE CARDS
 704444-84B00 ABSOLUTE BINARY CARDS

704448AB	B3	SIGMA 5/7	CHECKOUT AID-CHECKER
704448-11800			DESCRIPTION PRINTED
704448-23800			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704448-24800			RELOCATABLE BINARY CARDS
704448-44800			COMPRESSED CARDS
704449AB	B1	SIGMA 2	8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC
704449-51A00			LISTING PRINTED
704449-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704449-84A00			ABSOLUTE BINARY CARDS
704450AE	B1	SIGMA 2	STAND-ALONE SYMBOL ASSEMBLER
704450-23D00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704450-24D00			RELOCATABLE BINARY CARDS
704450-34D00	704955-36		SOURCE CARDS
704450-51D00	704955-56		LISTING PRINTED
901047			SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
901051			SIGMA 2 SYMBOL REFERENCE MANUAL
704453AD	B1	SIGMA 2	STAND-ALONE RELOCATABLE LOADER
704453-23D00	704956-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704453-24D00	704956-84		RELOCATABLE BINARY CARDS
704453-34D00	704955-36		SOURCE CARDS
704453-51D00	704955-56		LISTING PRINTED
901047			SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
704454AB	B1	SIGMA 2/3	BASIC FORTRAN MATH LIBRARY/RUN-TIME
704454-11C00	704457-11		DESCRIPTION PRINTED
704454-23C00	704457-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704454-24C00	704457-84		RELOCATABLE BINARY CARDS
704454-36C00	704457-36		SOURCE MAG TAPE, 9 CHANNELS
704454-56C00	704457-56		LISTING MAG TAPE, 9 CHANNELS
704454-86C00	704457-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
901036			BASIC FORTRAN MATH LIBRARY/RUN-TIME TECH. MAN. FOR SIGMA 2
704455AD	B1	SIGMA 2	STAND-ALONE DEBUG
704455-23D00	704956-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704455-24D00	704956-84		RELOCATABLE BINARY CARDS
704455-34D00	704955-36		SOURCE CARDS
704455-51D00	704955-56		LISTING PRINTED
901047			SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
704457AF	B1	SIGMA 2/3-530	BASIC CONTROL MONITOR (BCM)
704457-11E00			DESCRIPTION PRINTED
704457-23E00	704457-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704457-24E00	704457-84		RELOCATABLE BINARY CARDS
704457-26E00	704457-86		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704457-46E00	704457-86		COMPRESSED MAG TAPE, 9 CHANNELS
704457-56E00	704457-86		LISTING MAG TAPE, 9 CHANNELS
704457-83E00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704457-84E00			ABSOLUTE BINARY CARDS
704457-86E00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
901064			BASIC CONTROL MONITOR REFERENCE MANUAL
901506			BASIC CONTROL MONITOR OPERATIONS MANUAL
901526			BASIC CONTROL MONITOR TECHNICAL MANUAL
704511AA	B1	SIGMA 2/3	MULTIPLY/DIVIDE INTERRUPT SUBROUTINE
704511-11A00			DESCRIPTION PRINTED
704511-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704511-24A00			RELOCATABLE BINARY CARDS
704511-34A00	704955-36		SOURCE CARDS
704511-51A00	704955-56		LISTING PRINTED
704525AD	B1	SIGMA 2/3	RBM BASIC FORTRAN IV LIBRARY (COVER)
704525-11D00	901036		DESCRIPTION PRINTED
704525-23D00	705369-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704525-24D00	705369-84		RELOCATABLE BINARY CARDS
704525-26D00	705369-86		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704525-36D00	705369-36		SOURCE MAG TAPE, 9 CHANNELS
704525-56D00	705368-56		LISTING MAG TAPE, 9 CHANNELS
901036			SIGMA 2/3 BASIC FORTRAN MATH LIBRARY/RUN-TIME

704596AA	B3	SIGMA 5/7	POWER FAIL-SAFE UNDER BCM
704596-11A00			DESCRIPTION PRINTED
704596-24A00	705000-86		RELOCATABLE BINARY CARDS
704596-34A00			SOURCE CARDS
704596-44A00	705000-46		COMPRESSED CARDS
704768AD	B1	SIGMA 5/6/7	BPM USER PROCEDURES - SYSTEM BPM
704768-44E01	705000-46		COMPRESSED CARDS
704778AB	B1	SIGMA 5/7	MEMORY DUMP SUBROUTINE - UTILITY
704778-11B00			DESCRIPTION PRINTED
704778-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704778-24B00			RELOCATABLE BINARY CARDS
704778-34B00	704397-36		SOURCE CARDS
704779AC	B1	SIGMA 5/7	STAND-ALONE SELECTIVE DUMP - UTILITY
704779-11C00			DESCRIPTION PRINTED
704779-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704779-24C00			RELOCATABLE BINARY CARDS
704779-34C00	704397-36		SOURCE CARDS
704780AB	B1	SIGMA 5/7	STAND-ALONE MAG TAPE OR DISC DUMP-UTIL.
704780-11B00			DESCRIPTION PRINTED
704780-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704780-24B00			RELOCATABLE BINARY CARDS
704780-34B00	704397-36		SOURCE CARDS
704781AB	B1	SIGMA 5/7	STD-ALONE DISC SAVE-RESTORE ROUTINE-UTIL
704781-11B00			DESCRIPTION PRINTED
704781-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704781-24B00			RELOCATABLE BINARY CARDS
704781-34B00	704397-36		SOURCE CARDS
704782AB	B1	SIGMA 5/7	S/A FILE CPY AND VER(CARD,PUT,MT)-UTIL.
704782-11B00			DESCRIPTION PRINTED
704782-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704782-24B00			RELOCATABLE BINARY CARDS
704782-34B00	704397-36		SOURCE CARDS
704783AA	B1	SIGMA 5/7	MAG. TAPE CONVERSION (7/9 TRACK) - UTIL
704783-11A00			DESCRIPTION PRINTED
704783-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704783-24A00			RELOCATABLE BINARY CARDS
704784AA	B1	SIGMA 5/7	MEDIA CONVERSION AND EDITOR ROUTH-UTIL
704784-11A00			DESCRIPTION PRINTED
704784-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704784-24A00			RELOCATABLE BINARY CARDS
704784-34A00	704397-36		SOURCE CARDS
704785AB	B1	SIGMA 5/7	S/A COMP/SOURCE UPDATE EDITOR - UTILITY
704785-11B00			DESCRIPTION PRINTED
704785-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704785-24B00			RELOCATABLE BINARY CARDS
704785-34B00	704397-36		SOURCE CARDS
704786AA	B3	SIGMA 7	FREESTANDING CONSOLE EXAMINER (FACE)
704786-11C00	901193		DESCRIPTION PRINTED
704786-51C00	901193		LISTING PRINTED
704786-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704786-84C00			ABSOLUTE BINARY CARDS

704788AC	B3	SIGMA 5/7	SELECTOR IOP TEST PROGRAM
704788-51C00	901158		LISTING PRINTED
704788-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704788-84C00			ABSOLUTE BINARY CARDS
901158			SIGMA 5/7 SELECTOR IOP TEST PROGRAM DIAG. PROGRAM MANUAL
704851AD	B1	SIGMA 5/7	7 TRACK MAGNETIC TAPE I/O HANDLER
704851-23C00	704127-23		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704851-24C00	704357-26		RELOCATABLE BINARY CARDS
704851-34C00	704357-36		SOURCE CARDS
704853AC	B1	SIGMA 5/7	STAND-ALONE I/O INITIALIZATION
704853-23C00	704127-23		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704853-24C00	704357-26		RELOCATABLE BINARY CARDS
704853-34C00	704357-36		SOURCE CARDS
704855AA	B1	SIGMA 5/7	BCD/EBCDIC TRANSLATION TABLE
704855-11A00			DESCRIPTION PRINTED
704855-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704855-24A00			RELOCATABLE BINARY CARDS
704855-34A00	704397-36		SOURCE CARDS
704955AD	B1	SIGMA 2	STAND-ALONE SOFTWARE (COVER)
704955-11D00			DESCRIPTION PRINTED
704955-23D00	704956-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704955-24D00	704956-84		RELOCATABLE BINARY CARDS
704955-36D00			SOURCE MAG TAPE, 9 CHANNELS
704955-56D00			LISTING MAG TAPE, 9 CHANNELS
901047			SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
704956AE	B1	SIGMA 2	STAND-ALONE SYSLOAD PACKAGE
704956-11D00			DESCRIPTION PRINTED
704956-83D00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704956-84D00			ABSOLUTE BINARY CARDS
704956-34D00	704955-38		SOURCE CARDS
704956-51D00	704955-58		LISTING PRINTED
704965AA	B3	SIGMA 7	MARTIN-CAGE SIGMA 7 CPU EXERCISER
704965-11A00			DESCRIPTION PRINTED
704965-24A00			RELOCATABLE BINARY CARDS
704965-34A00			SOURCE CARDS
704983AH	B1	SIGMA 5-9	REMOTE BATCH TERMINAL TEST PROGRAM
704983-11D02	901550		DESCRIPTION PRINTED
704983-74D02			DATA CARDS
704983-83D02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
704983-84D02			ABSOLUTE BINARY CARDS
901550			DIAG PROG MANUAL SIGMA 5/7 REMOTE BATCH TERMINAL TEST
704985AF	B1	SIGMA 5-9	SORT/MERGE FOR BPH/BTH
704985-11F00	706102-11		DESCRIPTION PRINTED
704985-26F00	706102-26		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
704985-46F00	706102-26		COMPRESSED MAG TAPE, 9 CHANNELS
704985-61F00	706102-11		UPDATE INSTRUCTIONS PRINTED
704985-71F00	706102-11		TEST PROGRAM DESCRIPTIONS
704985-76F00	706102-26		TEST PROGRAM SOURCE FILE
901189			XDS SIGMA 5-9 SORT/MERGE REFERENCE MANUAL
704989AC	B1	SIGMA 2	UNIVERSAL UTILITY PROGRAM
704989-11B00			DESCRIPTION PRINTED
704989-23B01			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704989-24B01			RELOCATABLE BINARY CARDS

704990AB	B1	SIGMA 2/3	BCM SYMBOL ASSEMBLER
704990-11C00		704457-11	DESCRIPTION PRINTED
704990-23C00		704457-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
704990-24C00		704457-84	RELOCATABLE BINARY CARDS
704990-36C00		704457-36	SOURCE MAG TAPE, 9 CHANNELS
704990-56C00		704457-56	LISTING MAG TAPE, 9 CHANNELS
901051			SYMBOL REFERENCE MANUAL FOR SIGMA 2
901064			BCM REFERENCE MANUAL FOR SIGMA 2
901506			BCM OPERATIONS MANUAL FOR SIGMA 2
705000A1	B1	SIGMA 5-9	BPM/BTM OPERATING SYSTEM
705000-11H00			DESCRIPTION PRINTED
705000-46H00			COMPRESSED MAG TAPE, 9 CHANNELS
705000-61H01			UPDATE INSTRUCTIONS PRINTED
705000-74H01			SYSGEN DECK
705000-74H01			DISK BOOT ON CARDS
705000-86H01			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
900954			BPM REFERENCE MANUAL
901198			BPM OPERATIONS MANUAL
705001AE	B1	SIGMA 5-9	EXTENDED FORTRAN IV/IV-H COMPRESSED LIB.
705001-11E00			DESCRIPTION PRINTED
705001-46E00			COMPRESSED MAG TAPE, 9 CHANNELS
705260AD	B1	SIGMA 5/7	LOAD ONE PASS AND EXECUTE (LOPE) BPM
705260-11D01		705000-11	DESCRIPTION PRINTED
705260-46D00		705000-46	COMPRESSED MAG TAPE, 9 CHANNELS
705260-86D01		705000-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705261AE	B1	SIGMA 5-9	1400 SERIES SIMULATOR
705261-11E00			DESCRIPTION PRINTED
705261-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705261-46E00		705261-26	COMPRESSED MAG TAPE, 9 CHANNELS
705261-86E00		705261-26	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705264AB	B1	SIGMA 2	BOOT STRAP AND ABSOLUTE LOADER GENERATOR
705264-11B00			DESCRIPTION PRINTED
705264-34B00			SOURCE CARDS
705264-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705264-84B00			ABSOLUTE BINARY CARDS
705266AD	B1	SIGMA 2/3-530	PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC
705266-11C02		901549	DESCRIPTION PRINTED
705266-51C02		901549	LISTING PRINTED
705266-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705266-84C02			ABSOLUTE BINARY CARDS
901549			DIAG PROG MAN - SIGMA 2 PERIPHERAL SWITCHING EQUIPMENT DIAO
705279AE	B1	SIGMA 5-9	CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
705279-11C02			DESCRIPTION PRINTED
705279-51C02		901551	LISTING PRINTED
705279-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705279-84C02			ABSOLUTE BINARY CARDS
901551			DIAG PROG MAN - SIGMA 5/7 CHANNEL INTERFACE UNIT TEST DIAO
705280AE	B3	SIGMA 5/7	REAL-TIME BATCH MONITOR--1 (RBM-1)
705280-11E00			DESCRIPTION PRINTED
705280-24E00			RELOCATABLE BINARY CARDS
705280-26E00		704357-26	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705280-36E00		704357-36	SOURCE MAG TAPE, 9 CHANNELS
705280-86E00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705292AD	B3	SIGMA 5/7	4 BYTE MIOP TEST PROGRAM
705292-11D00		901554	DESCRIPTION PRINTED
705292-51D00		901554	LISTING PRINTED
705292-83D00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705292-84D00			ABSOLUTE BINARY CARDS
901554			DIAGNOSTIC PROGRAM MANUAL SIGMA 5/7 4-BYTE MIOP TEST PROGRA

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

705294AD	B1	SIGMA 2	STAND-ALONE CONCORDANCE
705294-23D00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705294-24D00			RELOCATABLE BINARY CARDS
705294-34D00	704955-38		SOURCE CARDS
705294-51D00	704955-56		LISTING PRINTED
901047			SIGMA-2 STAND-ALONE SYSTEMS OPERATIONS MANUAL
901051			SIGMA-2 SYMBOL REFERENCE MANUAL
705295AA	B3	SIGMA 5/7	STANFORD DMS10 DIRECT TO MEMORY DIAO.
705295-11A00			DESCRIPTION PRINTED
705295-44A00			COMPRESSED CARDS
705295-51A00	705295-11		LISTING PRINTED
705295-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705295-84A00			ABSOLUTE BINARY CARDS
705296AA	B3	SIGMA 5/7	FORTRAN IV COMPILER DIAGNOSTICS DEMO
705296-74A00			DATA CARDS
705297AD	B1	SIGMA 2/3-530	CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
705297-11B04			DESCRIPTION PRINTED
705297-51B04	901560		LISTING PRINTED
705297-61B04			UPDATE INSTRUCTIONS PRINTED
705297-83B04			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705297-84B04			ABSOLUTE BINARY CARDS
901560			DIAG PROG MANUAL SIGMA 2/3 CHANNEL INTERFACE UNIT TEST
705298AB	B3	SIGMA 2/3	REMOTE BATCH TERMINAL TEST
705298-11B01	901559		DESCRIPTION PRINTED
705298-51B01	901559		LISTING PRINTED
705298-74B01			DATA CARDS
705298-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705298-84B01			ABSOLUTE BINARY CARDS
901559			DIAG PROG MANUAL SIGMA 2/3 REMOTE BATCH TERMINAL TEST
705299AB	B3	SIGMA 2/3	DIAGNOSTIC LOADER-SYMBOL+EXTENDED SYMBOL
705299-11B00	901558		DESCRIPTION PRINTED
705299-51B00	901558		LISTING PRINTED
705299-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705299-84B00			ABSOLUTE BINARY CARDS
901558			SIGMA 2/3 RELOCATABLE DIAGNOSTIC PROGRAM LOADER
705303AB	B1	SIGMA 5/7	DIRECT TO MEMORY SYSTEM DIAGNOSTIC
705303-11A00			DESCRIPTION PRINTED
705303-51A00	705303-11		LISTING PRINTED
705303-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705303-84A00			ABSOLUTE BINARY CARDS
705356AB	B3	SIGMA 2	WATCHDOG TIMER TEST
705356-11B00	901571		DESCRIPTION PRINTED
705356-51B00	901571		LISTING PRINTED
705356-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705356-84B00			ABSOLUTE BINARY CARDS
901571			DIAGNOSTIC PROGRAM MANUAL - SIGMA 2 WATCHDOG TIMER TEST
705357AB	B3	SIGMA 2	CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS
705357-11A01			DESCRIPTION PRINTED
705357-34A00			SOURCE CARDS
705357-51A00	705357-11		LISTING PRINTED
705358AB	B3	SIGMA 5/7	CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS
705358-11A01			DESCRIPTION PRINTED
705358-34A00			SOURCE CARDS
705358-51A00	705358-11		LISTING PRINTED
705360AA	B1	SIGMA 5/7	SYSTEM FORTCOMP PROCEDURES
705360-44B00	705835-26		COMPRESSED CARDS

705361AB	B1	SIGMA 5-9	SYSTEM FORTLIB
705361-11A01			DESCRIPTION PRINTED
705361-44A01			COMPRESSED CARDS
705365AB	B3	SIGMA 2/3	EXERCISER FOR CCS-20 DATA LINK
705365-11B00			DESCRIPTION PRINTED
705365-34B00			SOURCE CARDS
705365-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705365-84B00			ABSOLUTE BINARY CARDS
705366AB	B3	SIGMA 5/7	MAG TAPE COPY AND VERIFY (BPM) UTILITY
705366-11B00			DESCRIPTION PRINTED
705366-24B00			RELOCATABLE BINARY CARDS
705366-44B00			COMPRESSED CARDS
705366-51B00		705366-11	LISTING PRINTED
705367AA	B3	SIGMA 7	PAM-PDM + ADC ACCEPTANCE TESTS FOR LTV
705367-11A00			DESCRIPTION PRINTED
705367-44A00			COMPRESSED CARDS
705368A1	B1	SIGMA 2/3-530	XEROX REAL-TIME BATCH MONITOR (RBM)
705368-11F01			DESCRIPTION PRINTED
705368-23F01		705368-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705368-24F01		705368-84	RELOCATABLE BINARY CARDS
705368-26F01		705368-86	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705368-46F01		705368-86	COMPRESSED MAG TAPE, 9 CHANNELS
705368-56F01		705368-86	LISTING MAG TAPE, 9 CHANNELS
705368-83F01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705368-84F01			ABSOLUTE BINARY CARDS
705368-86F01			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
901037			SIGMA 2/3-530 REAL-TIME BATCH MONITOR REFERENCE MANUAL
901555			SIGMA 2/3-530 REAL-TIME BATCH MONITOR OPERATION MANUAL
705369AE	B1	SIGMA 2/3-530	XEROX REAL-TIME BATCH MONITOR (RBM)
705369-11F00		705368-11	DESCRIPTION PRINTED
705371AD	B1	SIGMA 2/3	RBM RAD EDITOR
705371-11D00		705368-11	DESCRIPTION PRINTED
705371-23D00		705368-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705371-24D00		705368-84	RELOCATABLE BINARY CARDS
705371-26D00		705368-86	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705371-36D00		705368-86	SOURCE MAG TAPE, 9 CHANNELS
705371-56D00		705368-86	LISTING MAG TAPE, 9 CHANNELS
901037			SIGMA 2/3 REAL-TIME BATCH MONITOR REFERENCE MANUAL
705372AG	B1	SIGMA 2/3-530	RBM EXTENDED SYMBOL
705372-11F00			DESCRIPTION PRINTED
705372-23F00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705372-24F00			RELOCATABLE BINARY CARDS
705372-26F00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705372-36F00		705372-26	SOURCE MAG TAPE, 9 CHANNELS
705372-73F00		705372-23	TEST AND DEMO TAPE
705372-74F00		705372-24	TEST AND DEMO DECKS
705372-76F00		705372-26	TEST AND DEMO TAPE
705373AD	B1	SIGMA 2/3	RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT
705373-11D00		705368-11	DESCRIPTION PRINTED
705373-23D00		705368-83	RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705373-24D00		705368-84	RELOCATABLE BINARY CARDS
705373-26D00		705368-86	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705373-36D00		705368-86	SOURCE MAG TAPE, 9 CHANNELS
705373-56D00		705368-86	LISTING MAG TAPE, 9 CHANNELS
901037			SIGMA 2/3 REAL-TIME BATCH MONITOR REFERENCE MANUAL

705374AE	B1	SIGMA 2/3	RBM CONCORDANCE
705374-11E00			DESCRIPTION PRINTED
705374-23E00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705374-24E00			RELOCATABLE BINARY CARDS
705374-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705374-36E00	705374-26		SOURCE MAG TAPE, 9 CHANNELS
901052			EXTENDED SYMBOL LN/OPS REFERENCE MANUAL
705375AD	B1	SIGMA 2/3	RBM BASIC FORTRAN IV COMPILER
705375-11D00	705368-11		DESCRIPTION PRINTED
705375-23D00	705368-83		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705375-24D00	705368-84		RELOCATABLE BINARY CARDS
705375-26D00	705368-86		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705375-36D00	705368-36		SOURCE MAG TAPE, 9 CHANNELS
705375-56D00	705368-56		LISTING MAG TAPE, 9 CHANNELS
900967			SIGMA 2/3 BASIC FORTRAN/FORTRAN IV REFERENCE MANUAL
901525			SIGMA 2/3 FORTRAN IV OPERATIONS MANUAL
705378AA	B3	SIGMA 2	ANALOG REDUCTION REPORT GENERATOR
705378-11A00			DESCRIPTION PRINTED
705378-84A00			ABSOLUTE BINARY CARDS
705380AA	B3	SIGMA 5/7	LINE PRINTER PLOT SUBROUTINE
705380-11A00			DESCRIPTION PRINTED
705380-24A00			RELOCATABLE BINARY CARDS
705380-34A00			SOURCE CARDS
705382AA	B1	SIGMA 2	MODIFIED 7910/14/22 ANALOG DIAG. PROG.
705382-11A00			DESCRIPTION PRINTED
705382-51A00	705382-11		LISTING PRINTED
705382-84A00			ABSOLUTE BINARY CARDS
705386AB	B3	SIGMA 3	EXTENDED ARITHMETIC OPTION
705386-11B00	901589		DESCRIPTION PRINTED
705386-51B00	901589		LISTING PRINTED
705386-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705386-84B00			ABSOLUTE BINARY CARDS
901589			DIAGNOSTIC PROGRAM MANUAL SIGMA 3 CPU EXTENDED ARITHMETIC
705387AD	B1	SIGMA 5/7	7580 GRAPHIC DISPLAY DIAGNOSTIC
705387-11D00	901644		DESCRIPTION PRINTED
705387-51D00	901644		LISTING PRINTED
705387-83D00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705387-84D00			ABSOLUTE BINARY CARDS
705388AD	B1	SIGMA 2/3	7923/28/29 SIU DIAGNOSTIC PROGRAM
705388-11C00			DESCRIPTION PRINTED
705388-44C01			COMPRESSED CARDS
705388-61C01			UPDATE INSTRUCTIONS PRINTED
705388-84C01			ABSOLUTE BINARY CARDS
705390AA	B3	SIGMA 5/7	MULTI-PROCESSOR EXERCISER
705390-11A00			DESCRIPTION PRINTED
705390-44A00			COMPRESSED CARDS
705390-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705390-84A00			ABSOLUTE BINARY CARDS
705391AA	B3	SIGMA 5/7	FORTRAN IV RUN-TIME DIAGNOSTIC DEMO
705391-11A00			DESCRIPTION PRINTED
705391-34A00			SOURCE CARDS
705391-51A00	705391-11		LISTING PRINTED
705392AB	B1	SIGMA 5/7	7923/28/29 SIU DIAGNOSTIC PROGRAM
705392-11B00			DESCRIPTION PRINTED
705392-84B00			ABSOLUTE BINARY CARDS

705398AE	B1	SIGMA 5-9	BPM/BTM BASIC COMPILER
705398-11D01			DESCRIPTION PRINTED
705398-26D01			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705398-46D01		705398-26	COMPRESSED MAG TAPE, 9 CHANNELS
705398-76D01		705398-26	STANDARD AND LOCCT FILES
705415AE	B1	SIGMA 5/6/7	BTM-EXEC (EXECUTIVE PROGRAM)
705415-11E00		705000-11	DESCRIPTION PRINTED
705415-26E01		705000-86	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705415-46E00		705000-46	COMPRESSED MAG TAPE, 9 CHANNELS
705423AB	B3	SIGMA 5/7	MAG TAPE/RAD COPY PROGRAM - UTILITY
705423-11B00			DESCRIPTION PRINTED
705423-24B00			RELOCATABLE BINARY CARDS
705423-34B00			SOURCE CARDS
705423-44B00			COMPRESSED CARDS
705423-51B00			LISTING PRINTED
705425AA	B3	SIGMA 5/7	POSITION TAPE PROGRAM (POST)
705425-11A00			DESCRIPTION PRINTED
705425-24A00			RELOCATABLE BINARY CARDS
705425-44A00			COMPRESSED CARDS
705426AA	B3	SIGMA 5/7	DUMP/LIST PROGRAM - UTILITY
705426-11A00			DESCRIPTION PRINTED
705426-24A00			RELOCATABLE BINARY CARDS
705426-44A00			COMPRESSED CARDS
705428AA	B3	SIGMA 5/7	192 CHAR POTTER LINE PRINTER TEST PROG.
705428-11A00		980356	DESCRIPTION PRINTED
705428-44A00			COMPRESSED CARDS
705428-51A00		980356	LISTING PRINTED
705428-84A00			ABSOLUTE BINARY CARDS
705528AC	B3	SIGMA 2/3	MEMORY PROTECT PROGRAM
705528-11C00		901605	DESCRIPTION PRINTED
705528-51C00		901605	LISTING PRINTED
705528-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705528-84C00			ABSOLUTE BINARY CARDS
901605			DIAGNOSTIC PROGRAM MANUAL SIGMA 2/3 MEMORY PROTECT TEST PRO
705529AC	B3	SIGMA 3	MEMORY DIAGNOSTIC-FAULT LOCATOR
705529-11B01		901604	DESCRIPTION PRINTED
705529-51B01		901604	LISTING PRINTED
705529-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705529-84B01			ABSOLUTE BINARY CARDS
901604			DIAGNOSTIC PROGRAM MANUAL SIGMA 3 MEMORY DIAGNOSTIC
705530AE	B3	SIGMA 3	CPU DIAGNOSTIC - AUTO
705530-11C04		901608	DESCRIPTION PRINTED
705530-51C04		901608	LISTING PRINTED
705530-83C04			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705530-84C04			ABSOLUTE BINARY CARDS
901608			DIAGNOSTIC PROGRAM MANUAL - SIGMA 3 AUTO DIAGNOSTIC
705531AB	B3	SIGMA 5/7	GEM-1 GENERALIZED EVENT MEASUREMENT PROC
705531-11A00			DESCRIPTION PRINTED
705531-24B00			RELOCATABLE BINARY CARDS
705531-44B00			COMPRESSED CARDS
705533AE	B1	SIGMA 3-530	REMOVABLE DISC STORAGE TEST
705533-11B01		901613	DESCRIPTION PRINTED
705533-51B01		901613	LISTING PRINTED
705533-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705533-84B01			ABSOLUTE BINARY CARDS

705534A1	B1	SIGMA 5-9	REMOVABLE DISC STORAGE TEST
705534-11C01			DESCRIPTION PRINTED
705534-51C01	901612		LISTING PRINTED
705534-61C01			UPDATE INSTRUCTIONS PRINTED
705534-83C01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705534-84C01			ABSOLUTE BINARY CARDS
901612			DIAG PROG MANUAL SIGMA 5-9 REMOVABLE DISC STORAGE TEST
705542AK	B1	SIGMA 5-9	9 CHANNEL MAGNETIC TAPE TEST
705542-11C00	901618		DESCRIPTION PRINTED
705542-51C00	901618		LISTING PRINTED
705542-83C00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705542-84C00			ABSOLUTE BINARY CARDS
901618			DIAG. PROG. MANUAL - SIGMA 5/7 9-CHANNEL MAG TAPE SYS. TEST
705546AA	B1	SIGMA 2/3	NUMERICAL SUBROUTINE PACKAGE (COVER)
705546-11A00			DESCRIPTION PRINTED
705546-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705546-24A00			RELOCATABLE BINARY CARDS
705546-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705546-34A00	705546-36		SOURCE CARDS
705546-36A00			SOURCE MAG TAPE, 9 CHANNELS
901617			NUMERICAL SUBROUTINE PACKAGE TECH. MAN. FOR XDS SIGMA 2 COM
705651AF	B1	SIGMA 5-9	KEYBOARD PRINTER TEST (ASR/KSR)
705651-11B01	901620		DESCRIPTION PRINTED
705651-51B01	901620		LISTING PRINTED
705651-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705651-84B01			ABSOLUTE BINARY CARDS
901620			DIAGNOSTIC PROGRAM MANUAL - SIGMA 5/7 ASR/KSR TEST
705652AG	B1	SIGMA 2/3-530	XEROX KEYBOARD PRINTER (ASR/KSR)(16-BIT)
705652-11E00	901619		DESCRIPTION PRINTED
705652-51E00	901619		LISTING PRINTED
705652-83E00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705652-84E00			ABSOLUTE BINARY CARDS
901619			DIAGNOSTIC PROGRAM MANUAL - SIGMA 2/3 ASR/KSR TEST
705655AB	B3	SIGMA 5/7	SSS-SAS PCM TELEMETRY COMPILER
705655-11A01			DESCRIPTION PRINTED
705655-24A01			RELOCATABLE BINARY CARDS
705655-44A01			COMPRESSED CARDS
705656AB	B3	SIGMA 5/7	PCM DATA ACQUISITION PROGRAM
705656-11A01			DESCRIPTION PRINTED
705656-24A01			RELOCATABLE BINARY CARDS
705656-44A01			COMPRESSED CARDS
705657AC	B3	SIGMA 5/7	7530/7531 PLOTTING PACKAGE
705657-11C00			DESCRIPTION PRINTED
705657-24C00			RELOCATABLE BINARY CARDS
705657-44C00			COMPRESSED CARDS
705658AA	B3	SIGMA 5/7	DEBUG ROUTINE
705658-11A00			DESCRIPTION PRINTED
705658-84A00			ABSOLUTE BINARY CARDS
705663AA	B3	SIGMA 5/7	BADGE READER DIAGNOSTIC PROGRAM
705663-11A00			DESCRIPTION PRINTED
705663-44A00			COMPRESSED CARDS
705663-84A00			ABSOLUTE BINARY CARDS
705666AA	B3	SIGMA 2	COMMAND SYS 11, SECT 2-FSK TAPE INPUT
705666-11A00	980272		DESCRIPTION PRINTED
705666-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705666-44A00			COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

705667AA	B3	SIGMA 2	COMMAND SYS 1, SECT 3-DATA BASE LOADING
705667-11A00	980271		DESCRIPTION PRINTED
705667-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705667-44A00			COMPRESSED CARDS
705668AD	B3	SIGMA 5	CHECK OUT AID AND READINESS TEST (CART)
705668-11B00			DESCRIPTION PRINTED
705668-24B01			RELOCATABLE BINARY CARDS
705668-44B01			COMPRESSED CARDS
705668-84B01			ABSOLUTE BINARY CARDS
705669AB	B3	SIGMA 5/7	DATA RETRIEVAL PACKAGE (DARP)
705669-11A01			DESCRIPTION PRINTED
705669-24A01			RELOCATABLE BINARY CARDS
705669-44A01			COMPRESSED CARDS
705670AA	B3	SIGMA 5	WESTINGHOUSE HYBRID EXECUTIVE LIBRARY
705670-11A00			DESCRIPTION PRINTED
705670-24A00			RELOCATABLE BINARY CARDS
705670-44A00			COMPRESSED CARDS
705672AC	B3	SIGMA 3	MULTIPLE-PORT MEMORY RANDOM EXERCISOR
705672-11B01	901615		DESCRIPTION PRINTED
705672-51B01	901615		LISTING PRINTED
705672-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705672-84B01			ABSOLUTE BINARY CARDS
901615			DIAGNOSTIC PROGRAM MANUAL - SIGMA 3 MPH DIAGNOSTIC
705673AD	B1	SIGMA 5-9	DATDEF SYSTEMS PROGRAMMING PROCEDURES
705673-11C00			DESCRIPTION PRINTED
705673-44C02			COMPRESSED CARDS
705675AA	B1	SIGMA 5	ATP FOR DATA RECORDING AND TIMING SYSTEM
705675-11A00			DESCRIPTION PRINTED
705675-24A00			RELOCATABLE BINARY CARDS
705677AB	B1	SIGMA 5/7	STAND-ALONE ERROR LOG ANALIZER FOR BPM
705677-11D01	705000-11		DESCRIPTION PRINTED
705677-44D01	705000-48		COMPRESSED CARDS
705677-84D01	705000-86		ABSOLUTE BINARY CARDS
705679AC	B3	SIGMA 3	EXTERNAL IOP TEST PROGRAM
705679-11B02	901648		DESCRIPTION PRINTED
705679-51B02	901648		LISTING PRINTED
705679-83B02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705679-84B02			ABSOLUTE BINARY CARDS
901648			DIAGNOSTIC PROGRAM MANUAL SIGMA 3 EXTERNAL IOP TEST
705680AB	B3	SIGMA 5/7	STAND-ALONE SYSTEM EXERCISER (SWAP 3.2)
705680-11B00	901648		DESCRIPTION PRINTED
705680-51B00	901648		LISTING PRINTED
705680-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705680-84B00			ABSOLUTE BINARY CARDS
901648			DIAG PROG MANUAL SIGMA 5/7 S/A SYSTEM EXERCISER (SWAP 35)
705681AM	B1	SIGMA 2/3	DIAGNOSTIC PROGRAM MONITOR (DPM)
705681-11D03	901650		DESCRIPTION PRINTED
705681-51D03	901650		LISTING PRINTED
705681-83D03			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705681-84D03			ABSOLUTE BINARY CARDS
901650			DIAG PROG MANUAL SIGMA 2/3 DIAGNOSTIC PROGRAM MONITOR

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

|	705682AK	B1	SIGMA 5-9	DIAGNOSTIC PROGRAM MONITOR (DPH)
|	705682-11D03	901649		DESCRIPTION PRINTED
|	705682-51D03	901649		LISTING PRINTED
|	705682-84D03			ABSOLUTE BINARY CARDS
|	901649			DIAG PROG MANUAL SIGMA 5/7 DIAGNOSTIC PROGRAM MONITOR
	705689AA	B3	SIGMA 5/7	SIGMA ACCOUNTING SYSTEM SUMMARY PROCR.
	705689-11A00			DESCRIPTION PRINTED
	705689-24A00			RELOCATABLE BINARY CARDS
	705689-44A00			COMPRESSED CARDS
	705690AC	B3	SIGMA 3	INTERGRAL IOP TEST
	705690-11A04	901659		DESCRIPTION PRINTED
	705690-51A04	901659		LISTING PRINTED
	705690-83A04			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
	705690-84A04			ABSOLUTE BINARY CARDS
	901659			DIAGNOSTIC PROGRAM MANUAL SIGMA 3 I1OP TEST
	705691AH	B1	SIGMA 5-9	MAG. TAPE LIBRARY CONTROL PROGRAM
	705691-11A08	901664		DESCRIPTION PRINTED
	705691-51A08	901664		LISTING PRINTED
	705691-83A08			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
	705691-84A08			ABSOLUTE BINARY CARDS
	901664			OPERATIONS MANUAL-DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
	705692AU	B1	SIGMA 5/7	DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
	705692-11U00			DESCRIPTION PRINTED
	705692-86U00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
	705693AB	B1	SIGMA 2/3	DIAG.PROG.MAG.TAPE LIBRARY CONTROL PROG.
	705693-11A03	901665		DESCRIPTION PRINTED
	705693-51A03	901665		LISTING PRINTED
	705693-83A03			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
	705693-84A03			ABSOLUTE BINARY CARDS
	901665			DIAG PROG MANUAL SIGMA 2/3 MAG TAPE LIBRARY CONTROL PROGRAM
	705694AM	B1	SIGMA 2/3	DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
	705694-11P00			DESCRIPTION PRINTED
	705694-86P00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
	705715AC	B3	SIGMA 5/7	RANDOM
	705715-11B00			DESCRIPTION PRINTED
	705715-24B00			RELOCATABLE BINARY CARDS
	705715-44B00			COMPRESSED CARDS
	705716AB	B3	SIGMA 2/3	DIAGNOSTIC - SYSTEM EXERCISER
	705716-11A01	901666		DESCRIPTION PRINTED
	705716-44A01			COMPRESSED CARDS
	705716-51A01	901666		LISTING PRINTED
	705716-83A01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
	705716-84A01			ABSOLUTE BINARY CARDS
	901666			DIAGNOSTIC PROGRAM MANUAL - SIGMA 2/3 SYSTEM EXERCISOR
	705719AE	B1	SIGMA 2/3-530	C.O.C. HANDLER (RCOC)
	705719-11F00	705368-11		DESCRIPTION PRINTED
	705720AA	B3	SIGMA 3	MANUFACTURING TEST PROGRAM
	705720-11A00			DESCRIPTION PRINTED
	705720-34A00			SOURCE CARDS
	705720-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
	705720-84A00			ABSOLUTE BINARY CARDS

705721AD	B3	SIGMA 5/7	MIOP WITH MAINTENANCE SUBCONTROLLER
705721-11A04	901669		DESCRIPTION PRINTED
705721-51A04	901669		LISTING PRINTED
705721-83A04			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705721-84A04			ABSOLUTE BINARY CARDS
901669			SIG5/7-4 BYTE MIOP DIAG. PROG. (WITH MAINTENANCE SUBCONTROL
705722AA	B3	SIGMA 5/7	SIOP DIAGNOSTIC (MS)
705722-11A01	901670		DESCRIPTION PRINTED
705722-51A01	901670		LISTING PRINTED
705722-83A01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705722-84A01			ABSOLUTE BINARY CARDS
901670			SIGMA 5/7 SIOP DIAG PROG (MAINTENANCE SUBCONTROLLER)
705723AB	B3	SIGMA 5/7	MAINTENANCE SUBCONTROLLER SELF-TEST
705723-11A01	901668		DESCRIPTION PRINTED
705723-51A01	901668		LISTING PRINTED
705723-83A01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705723-84A01			ABSOLUTE BINARY CARDS
901668			DIAG PROG MANUAL SIGMA 5/7 MAINT. SUBCONTROLLER SELF-TEST
705726AA	B3	SIGMA 5/7	COC HANDLER FOR XEROX MESSAGE SWITCH SYS
705726-11A00			DESCRIPTION PRINTED
705726-24A00			RELOCATABLE BINARY CARDS
705726-44A00			COMPRESSED CARDS
705729AA	B3	SIGMA 2	A.C. ELECTRONICS DATA ACQUISITION
705729-11A00			DESCRIPTION PRINTED
705729-24A00			RELOCATABLE BINARY CARDS
705729-44A00			COMPRESSED CARDS
705730AG	B1	SIGMA 5-9	COMPREHENSIVE RAD TEST
705730-11C02	901678		DESCRIPTION PRINTED
705730-51C02	901678		LISTING PRINTED
705730-83C02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705730-84C02			ABSOLUTE BINARY CARDS
901678			DIAG. PROG. MAN. SIGMA 5/7 COMP. RAPID ACC. DEV. FILE TEST
705731AA	B1	SIGMA 5/7	96-CHARACTER ANALEX LINE PRINTER TEST
705731-24A00			RELOCATABLE BINARY CARDS
980368			DIAGNOSTIC PROGRAM MANUAL - SIGMA 5/7
			96-CHARACTER ANALEX LINE PRINTER TEST
705732AF	B1	SIGMA 5-9	REAL-TIME BATCH MONITOR (RBM)
705732-11C03			DESCRIPTION PRINTED
705732-46C03	705732-86		COMPRESSED MAG TAPE, 9 CHANNELS
705732-74C03	705732-84		TEST PROGRAM
705732-76C03	705732-86		TEST PROGRAM ON TAPE
705732-84C03			ABSOLUTE BINARY CARDS
705732-86C03			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705733AC	B1	SIGMA 5/7	RBM OVERLAY LOADER
705733-11C00	705732-11		DESCRIPTION PRINTED
705733-46C00	705732-46		COMPRESSED MAG TAPE, 9 CHANNELS
705733-84C00	705732-84		ABSOLUTE BINARY CARDS
705733-86C00	705732-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
705734AC	B1	SIGMA 5/7	RBM RAD EDITOR
705734-11C00	705732-11		DESCRIPTION PRINTED
705734-46C00	705732-46		COMPRESSED MAG TAPE, 9 CHANNELS
705734-84C00	705732-84		ABSOLUTE BINARY CARDS
705734-86C00	705732-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

705735AC	B1	SIGMA 5/7	7 CHANNEL MAGNETIC TAPE TEST
705735-11B01	901682		DESCRIPTION PRINTED
705735-51B01	901682		LISTING PRINTED
705735-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705735-84B01			ABSOLUTE BINARY CARDS
901682			DIAG.PROG.MAN.-SIG.5/7 7 CHANNEL MAGNETIC TAPE SYSTEM TEST
705736AB	B3	SIGMA 5/7	MEMORY DIAGNOSTIC-FAULT LOCATOR
705736-11A01	901687		DESCRIPTION PRINTED
705736-44A01			COMPRESSED CARDS
705736-51A01	901687		LISTING PRINTED
705736-83A01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705736-84A01			ABSOLUTE BINARY CARDS
901687			DIAG. PROGRAM MANUAL-SIGMA 5/7 MEMORY FAULT LOCATOR PROGRAM
705738AE	B1	SIGMA 5-9	EXTENDED FORTRAN IV/IV-H LIB. (RBM)
705738-11E00			DESCRIPTION PRINTED
705738-24E00			RELOCATABLE BINARY CARDS
705738-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705738-44E00	705738-24		COMPRESSED CARDS
705738-46E00	705738-26		COMPRESSED MAG TAPE, 9 CHANNELS
705738-74E00	705738-24		TEST DECK
705738-76E00	705738-26		TEST TAPE
705750AA	B3	SIGMA 5/7	ONE CARD CORE DUMP - UTILITY
705750-11A00			DESCRIPTION PRINTED
705750-34A00			SOURCE CARDS
705750-51A00	705750-11		LISTING PRINTED
705751AA	B3	SIGMA 5/7	KEYED CORE DUMP - UTILITY
705751-11A00			DESCRIPTION PRINTED
705751-34A00			SOURCE CARDS
705751-51A00	705751-11		LISTING PRINTED
705757AA	B3	SIGMA 5/7	PRINT DUMP
705757-11A00			DESCRIPTION PRINTED
705762AA	B3	SIGMA 5/7	FORTRAN IV ALLOCATION DIAGNOSTICS DEMO
705762-34A00			SOURCE CARDS
705773AA	B3	SIGMA 5/7	BTH MESSAGE SAVER
705773-11A00			DESCRIPTION PRINTED
705773-24A00			RELOCATABLE BINARY CARDS
705773-34A00			SOURCE CARDS
705773-44A00			COMPRESSED CARDS
705774AA	B1	SIGMA 5/7	DIAGNOSTIC FOR MDC MODIFIED 7580
705774-11A00			DESCRIPTION PRINTED
705774-24A00			RELOCATABLE BINARY CARDS
705775AA	B3	SIGMA 5/7	SNEAK-ON MEMORY PRINT
705775-11A00			DESCRIPTION PRINTED
705775-44A00			COMPRESSED CARDS
705775-84A00			ABSOLUTE BINARY CARDS
705776AD	B1	SIGMA 5/7	EXTENDED FORTRAN IV-H (RBM VERSION)
705776-11D00			DESCRIPTION PRINTED
705776-24D00			RELOCATABLE BINARY CARDS
705776-26D00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705776-46D00	705776-26		COMPRESSED MAG TAPE, 9 CHANNELS
705776-74D00			TEST DECK

705777AA	B3	SIGMA 2/3	ROMBUST
705777-11A00			DESCRIPTION PRINTED
705777-24A00			RELOCATABLE BINARY CARDS
705777-34A00			SOURCE CARDS
705779AA	B3	SIGMA 2/3	FORTRAN LIBRARY PROCEDURES
705779-11A00			DESCRIPTION PRINTED
705779-34A00			SOURCE CARDS
705780AE	B1	SIGMA 2/3-530	SYMBIONT PLOTTING SYSTEM
705780-11F00		705368-11	DESCRIPTION PRINTED
705781AD	B3	SIGMA 5-9	RBM MACRO-SYMBOL ASSEMBLER
705781-11D00			DESCRIPTION PRINTED
705781-24D00			RELOCATABLE BINARY CARDS
705781-26D00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705781-44D00			COMPRESSED CARDS
705781-46D00		705781-26	COMPRESSED MAG TAPE, 9 CHANNELS
705781-76D00		705781-26	TEST CASE ON TAPE
901578			XEROX MACRO-SYMBOL LN, OPS REFERENCE MANUAL
705782AA	B1	SIGMA 5/7	FILE PURGE
705782-11A00			DESCRIPTION PRINTED
705782-24A00			RELOCATABLE BINARY CARDS
705783AC	A1	SIGMA 5/6/7	MANAGE AND TERMINAL ORIENTED MANAGE
705783-11C00			DESCRIPTION PRINTED
705783-26C00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705783-46C00		705783-26	COMPRESSED MAG TAPE, 9 CHANNELS
705783-74C00			LOAD DECK
901610			XDS SIGMA 5/7 MANAGE REFERENCE MANUAL
705784AA	B3	SIGMA 5/7	RUN-TIME TRACE
705784-11A00			DESCRIPTION PRINTED
705784-24A00			RELOCATABLE BINARY CARDS
705784-44A00			COMPRESSED CARDS
705785AA	B3	SIGMA 5/7	MACE1
705785-11A00			DESCRIPTION PRINTED
705785-24A00			RELOCATABLE BINARY CARDS
705785-44A00			COMPRESSED CARDS
705818AA	B3	SIGMA 5	NASA/BALL MODEL XPS-95 HANDLER
705818-11A00			DESCRIPTION PRINTED
705818-24A00			RELOCATABLE BINARY CARDS
705818-44A00			COMPRESSED CARDS
705819AE	B1	SIGMA 5-9	BPM/CP-V FLAG
705819-11D00			DESCRIPTION PRINTED
705819-26D00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705819-46D00		705819-26	COMPRESSED MAG TAPE, 9 CHANNELS
705819-76D00		705819-26	TEST PROGRAM
705819-86D00		705819-26	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
901654			REFERENCE MANUAL FOR XDS FLAG
705820AE	B1	SIGMA 5-9	EXT. FORTRAN IV/IV-H LIBS. (BPM/BTM)
705820-11E00			DESCRIPTION PRINTED
705820-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705820-76E00		705820-26	TEST TAPE

705821AE	B1	SIGMA 5-9	EXTENDED FORTRAN IV/IV-H LIBRARY (BCM)
705821-11E00			DESCRIPTION PRINTED
705821-24E00			RELOCATABLE BINARY CARDS
705821-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705821-46E00	705001-46		COMPRESSED MAG TAPE, 9 CHANNELS
705821-46E00	705738-26		COMPRESSED MAG TAPE, 9 CHANNELS
705821-74E00			TEST DECK
900953			BASIC CONTROL MONITOR MANUAL
901524			EXTENDED FORTRAN IV/IV-H LIBRARY TECHNICAL MANUAL
705831AB	A1	SIGMA 5-9	FUNCTIONAL MATHEMATICAL PROG SYS (FMPS)
705831-11B00			DESCRIPTION PRINTED
705831-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705831-74B00			SYSGEN DECK/TEST CASE
901609			FUNCTIONAL MATHEMATICAL PROG. SYS. REF. MAN. FOR SIGMA 5/7
705832AB	A1	SIGMA 5-9	GAMMA 3 MATRIX-GENERATOR REPORT WRITER
705832-11B00			DESCRIPTION PRINTED
705832-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705832-74B00			SYSGEN DECK/TEST CASE
901705			GAMMA 3 (FOR FMPS) REF MANUAL FOR XDS SIGMA 5/7 COMPUTERS
705835AE	B1	SIGMA 5-9	EXTENDED FORTRAN IV COMPILER
705835-11E00			DESCRIPTION PRINTED
705835-24E00			RELOCATABLE BINARY CARDS
705835-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705835-46E00	705835-26		COMPRESSED MAG TAPE, 9 CHANNELS
705835-74E00			TEST PROGRAM ON CARDS
900956			FORTRAN IV REFERENCE MANUAL
901143			FORTRAN IV OPERATIONS MANUAL
705836AA	B1	SIGMA 5/7	SYSTEM FORTCOMP FOR EXTENDED F-IV
705836-44A00	705835-26		COMPRESSED CARDS
705843AA	B3	SIGMA 5	NASA/BALL MODEL XPS-95 DEMO PROGRAM
705843-11A00			DESCRIPTION PRINTED
705843-24A00			RELOCATABLE BINARY CARDS
705843-44A00			COMPRESSED CARDS
705846AH	B1	SIGMA 5/7	SYMBOL ASSEMBLER (RBM VERSION)
705846-11H00	704159-11		DESCRIPTION PRINTED
705846-24H00			RELOCATABLE BINARY CARDS
705846-46H00	704159-26		COMPRESSED MAG TAPE, 9 CHANNELS
901790			SYMBOL REFERENCE MANUAL LN/OPS
705847AA	B3	SIGMA 2/3	NON-STANDARD BCM COVER
705847-11A00			DESCRIPTION PRINTED
705847-36A00	704457-36		SOURCE MAG TAPE, 9 CHANNELS
705847-56A00	704457-56		LISTING MAG TAPE, 9 CHANNELS
705847-83A00	704457-83		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705847-84A00	704457-84		ABSOLUTE BINARY CARDS
705848AA	B3	SIGMA 5/7	XDS SNOBOL4
705848-11A00			DESCRIPTION PRINTED
705848-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
705850AD	B1	SIGMA 5/7	EXTENDED FORTRAN IV-H (BCM VERSION)
705850-11D00			DESCRIPTION PRINTED
705850-24D00			RELOCATABLE BINARY CARDS
705850-26D00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705850-46D00	705776-26		COMPRESSED MAG TAPE, 9 CHANNELS
705851AD	B1	SIGMA 5/6/7	EXTENDED FORTRAN IV-H (BPM,BTM)
705851-11D00			DESCRIPTION PRINTED
705851-26D00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705851-46D00	705851-26		COMPRESSED MAG TAPE, 9 CHANNELS
705851-74D00	705776-74		TEST DECKS

705852AA	B3	SIGMA 5/7	GRAPHIC DISPLAY TO PLOTTER COPY
705852-11A00			DESCRIPTION PRINTED
705852-24A00			RELOCATABLE BINARY CARDS
705852-44A00			COMPRESSED CARDS
705853AA	B3	SIGMA 2/3	SIU 7915 HANDLER (EXT. PREC. FORTRAN)
705853-11A00			DESCRIPTION PRINTED
705853-24A00			RELOCATABLE BINARY CARDS
705853-34A00			SOURCE CARDS
705854AA	B3	SIGMA 5/7	SIU 7923 HANDLER
705854-11A00			DESCRIPTION PRINTED
705854-24A00			RELOCATABLE BINARY CARDS
705854-34A00			SOURCE CARDS
705855AA	B3	SIGMA 2/3	SIU 7930/31 HANDLER (EXT. PREC. FORTRAN)
705855-11A00			DESCRIPTION PRINTED
705855-24A00			RELOCATABLE BINARY CARDS
705855-34A00			SOURCE CARDS
705856AA	B3	SIGMA 2/3	SIU 7930/31 HANDLER (STAND.PREC.FORTRAN)
705856-11A00			DESCRIPTION PRINTED
705856-24A00			RELOCATABLE BINARY CARDS
705856-34A00			SOURCE CARDS
705860AA	B3	SIGMA 5/7	HANDLER FOR 7969 FREQUENCY CONTROL UNIT
705860-11A00			DESCRIPTION PRINTED
705860-24A00			RELOCATABLE BINARY CARDS
705860-44A00			COMPRESSED CARDS
705861AA	B3	SIGMA 5/7	HANDLER FOR 7930/7931 DIGITAL I/O UNIT
705861-11A00			DESCRIPTION PRINTED
705861-24A00			RELOCATABLE BINARY CARDS
705861-44A00			COMPRESSED CARDS
705862AF	B3	SIGMA 5-9	REVISED MAG TAPE COPY - VERIFY PROGRAM
705862-11F00			DESCRIPTION PRINTED
705862-24F00			RELOCATABLE BINARY CARDS
705862-44F00			COMPRESSED CARDS
705863AE	B1	SIGMA 2/3-530	COMPREHENSIVE RAD TEST
705863-11B01		901721	DESCRIPTION PRINTED
705863-51B01		901721	LISTING PRINTED
705863-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705863-84B01			ABSOLUTE BINARY CARDS
901721			DIAG. PROG. MAN.-SIGMA 2/3 COMP. RAPID ACCESS DEVICE (RAD)
705864AA	B3	SIGMA 5/7	HANDLER FOR 7915/ADS-10 AIC
705864-11A00			DESCRIPTION PRINTED
705864-24A00			RELOCATABLE BINARY CARDS
705864-44A00			COMPRESSED CARDS
705865AB	A1	SIGMA 5/6/7	CIRC-DC
705865-11B00			DESCRIPTION PRINTED
705865-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705865-36B00			SOURCE MAG TAPE, 9 CHANNELS
705865-74B00			CONTROL CARD DECKS FOR LOAD, COMPIL, AND TEST
901697			CIRC-DC REFERENCE MANUAL AND USERS GUIDE
705866AF	B1	SIGMA 2/3-530	9 CHANNEL MAGNETIC TAPE TEST
705866-11B01		901722	DESCRIPTION PRINTED
705866-51B01		901722	LISTING PRINTED
705866-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705866-84B01			ABSOLUTE BINARY CARDS
901722			DIA.PROG.MANUAL-SIG. 2/3 9 CHANNEL MAGNETIC TAPE SYSTEM TES

705867AA	B3	SIGMA 5/7	ARGONNE LO-LEVEL ANALOG INPUT DIAGNOSTIC
705867-11A00			DESCRIPTION PRINTED
705867-24A00			RELOCATABLE BINARY CARDS
705867-44A00			COMPRESSED CARDS
705868AA	B3	SIGMA 5/7	ARGONNE HI-LEVEL ANALOG INPUT DIAGNOSTIC
705868-11A00			DESCRIPTION PRINTED
705868-24A00			RELOCATABLE BINARY CARDS
705868-44A00			COMPRESSED CARDS
705869AA	B3	SIGMA 5/8/7	SMUT - (SIGMA 5/8/7 MULTI TAPE COPY)
705869-11A00			DESCRIPTION PRINTED
705869-24A00			RELOCATABLE BINARY CARDS
705869-44A00			COMPRESSED CARDS
705869-51A00	705869-11		LISTING PRINTED
705877AF	B1	SIGMA 2/3-530	7 CHANNEL MAGNETIC TAPE TEST
705877-11B00	901734		DESCRIPTION PRINTED
705877-51B00	901734		LISTING PRINTED
705877-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705877-84B00			ABSOLUTE BINARY CARDS
901734			DIAG. PROG. MANUAL-SIGMA 2/3 7 CHANNEL MAGNETIC TAPE TEST
705878AA	B1	SIGMA 5/8/7	PRINT LABELED TAPE
705878-11A00			DESCRIPTION PRINTED
705878-24A00			RELOCATABLE BINARY CARDS
705878-44A00			COMPRESSED CARDS
705879AA	B1	SIGMA 5/8/7	CARD STORE/RETRIEVE (CSR)
705879-11A00			DESCRIPTION PRINTED
705879-24A00			RELOCATABLE BINARY CARDS
705879-44A00			COMPRESSED CARDS
705880AA	B3	SIGMA 2/3	CONTROL PROGRAM FOR E-H MEMORY TESTER
705880-11A00			DESCRIPTION PRINTED
705880-24A00			RELOCATABLE BINARY CARDS
705880-34A00			SOURCE CARDS
705881AA	B3	SIGMA 5/8/7	MULTSORT - SORT MULTIPLE INPUT FILES
705881-11A00			DESCRIPTION PRINTED
705881-44A00			COMPRESSED CARDS
705882AA	B3	SIGMA 5/8/7	SORT 1400 SIMULATOR FORMATTED TAPE FILES
705882-11A00			DESCRIPTION PRINTED
705882-44A00			COMPRESSED CARDS
705884AD	B1	SIGMA 8/7	UTS ON-LINE MAINTENANCE PACKAGE (OLMP)
705884-11A08	901736		DESCRIPTION PRINTED
705884-26A08			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
901736			DIAGNOSTIC PROGRAM USERS MANUAL SIGMA 8/7
705885AA	B1	SIGMA 2/3	ADS-10 SIU DIAGNOSTIC
705885-11A00			DESCRIPTION PRINTED
705885-44A00			COMPRESSED CARDS
705885-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705885-84A00			ABSOLUTE BINARY CARDS
705886AA	B1	SIGMA 5/7	CC-32 DIAGNOSTIC PROGRAM
705886-11A00			DESCRIPTION PRINTED
705886-44A00			COMPRESSED CARDS
705886-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

705887AA	B1	SIGMA 5/7	ADS-10 ANALOG SIU DIAGNOSTIC PROGRAM
705887-11A00			DESCRIPTION PRINTED
705887-44A00			COMPRESSED CARDS
705887-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705887-84A00			ABSOLUTE BINARY CARDS
705888A0	B1	SIGMA 5-9	XEROX ANS COBOL COMPILER
705888-11E00			DESCRIPTION PRINTED
705888-26E03	880832-06		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705888-46E00			COMPRESSED MAG TAPE, 9 CHANNELS
705888-66E03			UPDATE ON MAG TAPE, 9 CHANNELS
901500			XEROX ANS COBOL REFERENCE MANUAL
901501			XEROX ANS COBOL OPERATIONS MANUAL
705889AH	B1	SIGMA 5/7	NEW SYSTEM EXERCISER (SEX)
705889-61804			UPDATE INSTRUCTIONS PRINTED
705889-83804			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705889-84804			ABSOLUTE BINARY CARDS
901737			DIAG PROG MANUAL SIGMA 5/7 NEW SYSTEMS EXERCISER
705891AA	B3	SIGMA 5/7	7910 SIU HANDLER (FORTRAN IV-H)
705891-11A00			DESCRIPTION PRINTED
705891-24A00			RELOCATABLE BINARY CARDS
705891-34A00			SOURCE CARDS
705892AC	B1	SIGMA 2/3	7915/ADS-10 SIU DIAGNOSTIC
705892-11C00			DESCRIPTION PRINTED
705892-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
705892-24C00			RELOCATABLE BINARY CARDS
705892-44C00			COMPRESSED CARDS
705893AA	B3	SIGMA 3	8150 MINI TEST
705893-11A00			DESCRIPTION PRINTED
705893-44A00			COMPRESSED CARDS
705893-51A00	705893-11		LISTING PRINTED
705893-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705893-84A00			ABSOLUTE BINARY CARDS
705894AA	B3	SIGMA 3	MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150)
705894-11A00			DESCRIPTION PRINTED
705894-44A00			COMPRESSED CARDS
705894-51A00	705894-11		LISTING PRINTED
705894-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
705894-84A00			ABSOLUTE BINARY CARDS
705895AA	B3	SIGMA 2/3	MOC CONTROLLER 7801 HANDLER
705895-11A00			DESCRIPTION PRINTED
705896AA	B3	SIGMA 5/7	SPECIAL FORT-SYMBOL INTERFACE ROUTINES
705896-11A00			DESCRIPTION PRINTED
705897AA	B3	SIGMA 5/7	MBB HYBRID EXECUTIVE LIBRARY
705897-11A00			DESCRIPTION PRINTED
705898AA	B3	SIGMA 2/3	7923 SIU HANDLER (FORTRAN)
705898-11A00			DESCRIPTION PRINTED
705898-24A00			RELOCATABLE BINARY CARDS
705898-34A00			SOURCE CARDS
705900AC	A1	SIGMA 5-9	DMS - DATA MANAGEMENT SYSTEM (BPM)
705900-11801			DESCRIPTION PRINTED
705900-26801			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
705900-46801	705900-26		COMPRESSED MAG TAPE, 9 CHANNELS
705900-76801	705900-26		TEST PROGRAM SOURCE FILE ON TAPE
901738			DMS REFERENCE MANUAL

706101AD	B1	SIGMA 6-9	CP-V BASIC
706101-11C01			DESCRIPTION PRINTED
706101-26C01			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706101-46C01	706101-26		COMPRESSED MAG TAPE, 9 CHANNELS
706101-76C01	706101-26		LOAD, SYSGEN AND TEST FILES
706101-86C01	706101-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706102AE	B1	SIGMA 5-9	XEROX SORT AND MERGE
706102-11E00			DESCRIPTION PRINTED
706102-26E00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706102-46E00	706102-26		COMPRESSED MAG TAPE, 9 CHANNELS
706102-61E00	706102-11		UPDATE INSTRUCTIONS PRINTED
706102-71E00	706102-11		TEST PROGRAM DESCRIPTION
706102-76E00	706102-26		TEST PROGRAM SOURCE FILES
901199			XEROX SORT AND MERGE (FOR CP-V/BPM)
706104AA	B3	SIGMA 5/6/7	WORKING DAYS SUBROUTINE - WORKDAYS
706104-11A00			DESCRIPTION PRINTED
706104-34A00			SOURCE CARDS
706105AA	B3	SIGMA 5/6/7	DATE CONVERSION SUBROUTINE
706105-11A00			DESCRIPTION PRINTED
706105-34A00			SOURCE CARDS
706108AA	B3	SIGMA 3	RAYTHEON RECORDER DEMO PROGRAM
706108-11A00			DESCRIPTION PRINTED
706108-24A00			RELOCATABLE BINARY CARDS
706108-44A00			COMPRESSED CARDS
706109AA	B3	SIGMA 2/3	XPS-97 DIAGNOSTICS FOR SIGMA 3
706109-11A00			DESCRIPTION PRINTED
706109-24A00			RELOCATABLE BINARY CARDS
706109-44A00			COMPRESSED CARDS
706110AE	B1	SIGMA 2/3-530	XEROX DISPLAY STATION DIAGNOSTIC PROGRAM
706110-11E01			DESCRIPTION PRINTED
706110-44E01			COMPRESSED CARDS
706110-84E01			ABSOLUTE BINARY CARDS
706111AA	B3	SIGMA 7	BASIC TEXT ARRAY GENERATOR (TEXTAR)
706111-11A00			DESCRIPTION PRINTED
706111-24A00			RELOCATABLE BINARY CARDS
706111-51A00	706111-11		LISTING PRINTED
706112AB	A1	SIGMA 5/6/7	CIRC-AC
706112-11B00			DESCRIPTION PRINTED
706112-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706112-36B00			SOURCE MAG TAPE, 9 CHANNELS
706112-74B00			CONTROL CARD DECKS FOR LOAD, COMPILE, AND TEST
901698			CIRC-AC REFERENCE MANUAL AND USERS GUIDE
706113AA	B3	SIGMA 5/7	RBH HOC HANDLER
706113-11A00			DESCRIPTION PRINTED
706114AB	B3	SIGMA 3	CES-34 DIAGNOSTIC PROGRAM
706114-11A01			DESCRIPTION PRINTED
706114-23A01			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706114-24A01			RELOCATABLE BINARY CARDS
706114-44A01			COMPRESSED CARDS
706115AA	B3	SIGMA 2/3	7910 SIU HANDLER (EXT.PREC.FORTRAN)
706115-11A00			DESCRIPTION PRINTED
706115-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706115-24A00			RELOCATABLE BINARY CARDS
706115-34A00			SOURCE CARDS

706116AA	B3	SIGMA 2/3	7910 SIU HANDLER (STD PREC FORTRAN)
706116-11A00			DESCRIPTION PRINTED
706116-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706116-24A00			RELOCATABLE BINARY CARDS
706116-34A00			SOURCE CARDS
706117AB	A1	SIGMA 5/6/7	SL-1 TRANSLATOR (RBM VERSION)
706117-11B00			DESCRIPTION PRINTED
706117-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706117-36B00	706118-26		SOURCE MAG TAPE, 9 CHANNELS
706117-74B00			CONTROL CARD DECKS FOR LOADING AND TESTING SL-1
901676			SL-1 REFERENCE MANUAL FOR SIGMA 5/7 COMPUTERS
706118AB	A1	SIGMA 5-9	SL-1 TRANSLATOR (BPM/BTM/UTS VERSION)
706118-11B00			DESCRIPTION PRINTED
706118-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706118-36B00	706118-26		SOURCE MAG TAPE, 9 CHANNELS
706118-74B00			CONTROL CARD DECKS FOR LOADING, TESTING, AND COMPILING SL-1
901676			SL-1 REFERENCE MANUAL FOR SIGMA 5/7 COMPUTERS
706119AA	B3	SIGMA 5/6/7	PRINT/COPY UTILITY - ATACK
706119-11A00			DESCRIPTION PRINTED
706119-44A00			COMPRESSED CARDS
706122AB	B3	SIGMA 5-9	TAPE FILE MANAGE PROCESSOR-TFM
706122-11B00			DESCRIPTION PRINTED
706122-24B00			RELOCATABLE BINARY CARDS
706122-44B00			COMPRESSED CARDS
706123AA	B3	SIGMA 2/3	7969 SIU HANDLER (FORTRAN)
706123-11A00			DESCRIPTION PRINTED
706123-24A00			RELOCATABLE BINARY CARDS
706123-34A00			SOURCE CARDS
706125AA	B3	SIGMA 5/6/7	PBX11 TELEMETRY SYSTEM
706125-11A00			DESCRIPTION PRINTED
706126AA	B3	SIGMA 5-9	PAL-KWIC
706126-11A00			DESCRIPTION PRINTED
706126-34A00			SOURCE CARDS
706126-51A00	706126-11		LISTING PRINTED
706127AA	B3	SIGMA 5-9	METAKWIC
706127-11A00			DESCRIPTION PRINTED
706127-34A00			SOURCE CARDS
706127-44A00			COMPRESSED CARDS
706127-51A00	706127-11		LISTING PRINTED
706128AB	B1	SIGMA 5/6/7	MULTIPLE TAPE COPY PROCESSOR
706128-11B00			DESCRIPTION PRINTED
706128-24B00			RELOCATABLE BINARY CARDS
706128-44B00			COMPRESSED CARDS
706129AB	B3	SIGMA 5/7	GRAPHIC DISPLAY LIBRARY (GDL)
706129-11B00			DESCRIPTION PRINTED
706129-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706129-46B00	706129-26		COMPRESSED MAG TAPE, 9 CHANNELS
706129-56B00	706129-26		LISTING MAG TAPE, 9 CHANNELS
706129-76B00	706129-26		TEST PROGRAM
706130AC	A1	SIGMA 5-9	GENERAL PURPOSE DISCRETE SIMULATOR-OPDS
706130-11C00			DESCRIPTION PRINTED
706130-26C00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706130-46C00	706130-26		COMPRESSED MAG TAPE, 9 CHANNELS
706130-74C00			TEST DECK

706131AE	B1	SIGMA 8/9	GUIDE DIAGNOSTIC MONITOR
706131-84B01			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706133AF	B1	SIGMA 8/9	CPU DIAGNOSTIC (AUTO)
706133-11A05			DESCRIPTION PRINTED
706133-84A05			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706134AE	B1	SIGMA 8/9	CPU DIAGNOSTIC (SUFFIX)
706134-11A05			DESCRIPTION PRINTED
706134-84A05			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706135AF	B1	SIGMA 8/9	CPU DIAGNOSTIC (FLOAT)
706135-84A05			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706136AE	B1	SIGMA 8/9	CPU DIAGNOSTIC (DECIMAL)
706136-84A04			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706137AG	B1	SIGMA 8/9	INTERRUPT/TRAP DIAGNOSTIC
706137-11B03			DESCRIPTION PRINTED
706137-84B03			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706138AE	B1	SIGMA 8/9	MAP AND WRITE LOCK-DIAGNOSTIC PROGRAM
706138-11A05			DESCRIPTION PRINTED
706138-84A05			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706139AF	B1	SIGMA 8/9	IOP TEST
706139-84A06			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706140AE	B1	SIGMA 8/9	MEMORY DIAGNOSTIC - COMET
706140-11A04	901878		DESCRIPTION PRINTED
706140-84A04			ABSOLUTE BINARY CARDS
901878			SIG 8/9 MAIN FRAME, MIOP AND MEMORY DIAG.-OPERATING INSTR.
706142AD	B1	SIGMA 8/9	POWER FAIL SAFE DIAGNOSTIC
706142-11A03			DESCRIPTION PRINTED
706142-84A03			ABSOLUTE BINARY CARDS
706143AA	B3	SIGMA 5/7	7929 AND 7935 SIU HANDLER
706143-11A00			DESCRIPTION PRINTED
706143-24A00			RELOCATABLE BINARY CARDS
706143-34A00			SOURCE CARDS
706144AG	B1	SIGMA 8/9	DIAGNOSTIC PROGRAM MAG TAPE LIBRARY
706144-11000			DESCRIPTION PRINTED
706144-86000			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706145AA	B1	SIGMA 5-9	7915/ADS 10 DIAGNOSTIC
706145-11A00			DESCRIPTION PRINTED
706145-44A00			COMPRESSED CARDS
706145-84A00			ABSOLUTE BINARY CARDS

706146AA	B1	SIGMA 5/6/7	SUPER SWAP (102)
706146-84A00			ABSOLUTE BINARY CARDS
901808			SUPER SWAP DIAGNOSTIC PROGRAMMING MANUAL
706147AA	B3	SIGMA 3	SIGMA 3 - CF18 INTERCOMMUNICATION DEMO
706147-11A00			DESCRIPTION PRINTED
706147-44A00			COMPRESSED CARDS
706147-84A00			ABSOLUTE BINARY CARDS
706148AA	B3	SIGMA 5-9	COMPRESSION UTILITY PROGRAM
706148-11A00			DESCRIPTION PRINTED
706148-24A00			RELOCATABLE BINARY CARDS
706148-44A00			COMPRESSED CARDS
706149AC	B1	SIGMA 2/3	RBM BSC PROCEDURAL HANDLER
706149-11C00			DESCRIPTION PRINTED
706149-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706149-24C00			RELOCATABLE BINARY CARDS
706149-44C00			COMPRESSED CARDS
706150AA	B1	SIGMA 5/6/7	MONDUMP (COVER)
706150-46A00		705000-46	COMPRESSED MAG TAPE, 9 CHANNELS
706150-86A00		705000-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706167AE	B1	SIGMA 5-9	COMPREHENSIVE LINE PRINTER TEST
706167-11A04		901754	DESCRIPTION PRINTED
706167-84A04			ABSOLUTE BINARY CARDS
901754			DIAGNOSTIC PROGRAM MANUAL SIGMA 5-9 COMPREHENSIVE LP TEST
706168AC	B1	SIGMA 2/3-530	COMPREHENSIVE LINE PRINTER TEST
706168-11A02		901755	DESCRIPTION PRINTED
706168-51A02		901755	LISTING PRINTED
706168-83A02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706168-84A02			ABSOLUTE BINARY CARDS
901755			DIAGNOSTIC PROGRAM MANUAL-SIGMA 2/3 COMPREHENSIVE LP TEST
706169AC	B1	SIGMA 5-9	COMPREHENSIVE CARD EQUIPMENT TEST
706169-11A04		901756	DESCRIPTION PRINTED
706169-51A04		901756	LISTING PRINTED
706169-74A02			TEST DECK
706169-84A04			ABSOLUTE BINARY CARDS
901756			DIAGNOSTIC PROGRAM MANUAL-SIGMA 5/6/7/9 COMP.CARD EQUIP.TES
706170AC	B1	SIGMA 2/3-530	COMPREHENSIVE CARD EQUIPMENT TEST
706170-11A02		901757	DESCRIPTION PRINTED
706170-51A02		901757	LISTING PRINTED
706170-74A00			TEST DECK
706170-83A02			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706170-84A02			ABSOLUTE BINARY CARDS
901757			DIAGNOSTIC PROGRAM MANUAL-SIGMA 2/3 COMP. CARD EQUIP. TEST
706171AA	B3	SIGMA 2/3	7929 SIU HANDLER (EXT PREC FORTRAN)
706171-11A00			DESCRIPTION PRINTED
706171-24A00			RELOCATABLE BINARY CARDS
706171-34A00			SOURCE CARDS
706172AC	B3	SIGMA 2/3	7902 EXTENDED DEVICE SUBCONTROLLER DIA0.
706172-11B00			DESCRIPTION PRINTED
706172-23B00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706172-24B00			RELOCATABLE BINARY CARDS
706172-44B00			COMPRESSED CARDS

706173AA	B3	SIGMA 5/7	7902	EDSC DIAGNOSTIC
706173-11A01				DESCRIPTION PRINTED
706173-23A01				RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706173-24A01				RELOCATABLE BINARY CARDS
706173-44A01				COMPRESSED CARDS
706200AE	B1	SIGMA 8/9		HIGH-SPEED RAD IOP TEST
706200-11A04		901761		DESCRIPTION PRINTED
706200-84A04				ABSOLUTE BINARY CARDS
706201AA	B3	SIGMA 5/6/7		TRANSM00- EBCDIC BINARY FILE BUILD
706201-11A00				DESCRIPTION PRINTED
706201-44A00				COMPRESSED CARDS
706202AD	B1	SIGMA 2/3-530		CC-32/33 DIAGNOSTIC PROGRAM
706202-11B01				DESCRIPTION PRINTED
706202-36B01				SOURCE MAG TAPE, 9 CHANNELS
706202-61B02				UPDATE INSTRUCTIONS PRINTED
706202-64B02				UPDATE ON CARDS
706202-84B02				ABSOLUTE BINARY CARDS
706203AA	B3	SIGMA 5-9		RADIATION PCM TEST
706203-11A00				DESCRIPTION PRINTED
706203-44A00				COMPRESSED CARDS
706203-84A00				ABSOLUTE BINARY CARDS
706204AA	B3	SIGMA 5-9		OSO PCM TEST
706204-11A00				DESCRIPTION PRINTED
706204-44A00				COMPRESSED CARDS
706204-84A00				ABSOLUTE BINARY CARDS
706205AB	B3	SIGMA 5-9		CART-3 CHECK-OUT AID READINESS
706205-11B00				DESCRIPTION PRINTED
706205-44B00				COMPRESSED CARDS
706205-84B00				ABSOLUTE BINARY CARDS
706206AA	B1	SIGMA 5-9		BPM/BTM PCL (PERIPHERAL CONV. LANGUAGE)
706206-11A00		900954E		DESCRIPTION PRINTED
706206-46A00		705000-46		COMPRESSED MAG TAPE, 9 CHANNELS
706206-86A00		705000-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706226AE	B1	SIGMA 5-9		STAND-ALONE VOLUME INITIALIZER-VOLINIT
706226-11D00				DESCRIPTION PRINTED
706226-24D00				RELOCATABLE BINARY CARDS
706226-44D00				COMPRESSED CARDS
706227AA	B3	SIGMA 5/7		CONTACT CLOSURE HANDLER
706227-11A00				DESCRIPTION PRINTED
706228AA	B3	SIGMA 5/7		HANDLER FOR TUNABLE OSCILLATOR (VCO)
706228-11A00				DESCRIPTION PRINTED
706229AA	B3	SIGMA 5/7		DMS-12 DAC HANDLER
706229-11A00				DESCRIPTION PRINTED
706230AC	B3	SIGMA 5/7		DMS 12 DIAGNOSTIC PROGRAM
706230-11A02				DESCRIPTION PRINTED
706230-44A02				COMPRESSED CARDS
706230-84A02				ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

706231AA	B3	SIGMA 5/7	ADC HIGH LEVEL ROUTINES (ADCHIGH)
706231-11A00			DESCRIPTION PRINTED
706232AB	B3	SIGMA 5/7	ADC LOW LEVEL ROUTINES (ADCLOW)
706232-11A01			DESCRIPTION PRINTED
706233AA	B3	SIGMA 5/7	DATA RETRIEVAL SUBROUTINES
706233-11A00			DESCRIPTION PRINTED
706234AA	B3	SIGMA 5-9	ARDS DISPLAY TEST
706234-11A00			DESCRIPTION PRINTED
706234-44A00			COMPRESSED CARDS
706234-84A00			ABSOLUTE BINARY CARDS
706235AA	B3	SIGMA 5-9	TIME CODE TRANSLATOR TEST
706235-11A00			DESCRIPTION PRINTED
706235-44A00			COMPRESSED CARDS
706235-84A00			ABSOLUTE BINARY CARDS
706236AE	B1	SIGMA 5-9	SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC
706236-11E00			DESCRIPTION PRINTED
706236-44E00			COMPRESSED CARDS
706236-84E00			ABSOLUTE BINARY CARDS
706237AA	B3	SIGMA 5/7	TIME CODE SYSTEM HANDLER (TCSH)
706237-11A00			DESCRIPTION PRINTED
706238AA	B3	SIGMA 2/3	SIGMA 3 - CF16 INTERCOMMUNICATION DEMO
706238-11A00			DESCRIPTION PRINTED
706238-24A00			RELOCATABLE BINARY CARDS
706238-44A00			COMPRESSED CARDS
706239AA	B3	SIGMA 2/3	RECON COMPRESSED TO SYMBOLIC CONVERTER
706239-11A00			DESCRIPTION PRINTED
706239-24A00			RELOCATABLE BINARY CARDS
706239-34A00			SOURCE CARDS
706241AA	B3	SIGMA 2/3	RECON S/A COMPRESSED TO SYMBOLIC CONVER.
706241-11A00			DESCRIPTION PRINTED
706241-24A00			RELOCATABLE BINARY CARDS
706241-34A00			SOURCE CARDS
706242AA	B3	SIGMA 5-9	METAFUMBLE
706242-11B00			DESCRIPTION PRINTED
706242-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706242-46B00	706242-26		COMPRESSED MAG TAPE, 9 CHANNELS
706242-76B00	706242-26		TEST TAPE
706243AA	B3	SIGMA 5-9	UTILIST
706243-11A00			DESCRIPTION PRINTED
706243-24A00			RELOCATABLE BINARY CARDS
706243-44A00			COMPRESSED CARDS
706244AA	B1	SIGMA 2/3	SIGMA 2/3 C01/D00 SAVE PROGRAM
706244-11A00			DESCRIPTION PRINTED
706244-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706244-24A00			RELOCATABLE BINARY CARDS

706245AA	B3	SIGMA 2/3	SYMBOLIC COMPRESSOR FOR STAND-ALONE
706245-11A00			DESCRIPTION PRINTED
706245-24A00			RELOCATABLE BINARY CARDS
706245-44A00			COMPRESSED CARDS
706246AA	B3	SIGMA 2/3	SYMBOLIC COMPRESSOR FOR RBM/BCH
706246-11A00			DESCRIPTION PRINTED
706246-24A00			RELOCATABLE BINARY CARDS
706246-44A00			COMPRESSED CARDS
706247AA	B1	SIGMA 5-9	TEST FILE GENERATOR (TGEN)
706247-11A00			DESCRIPTION PRINTED
706247-24A00			RELOCATABLE BINARY CARDS
706247-44A00			COMPRESSED CARDS
706249AE	B1	SIGMA 5-9	ROTATING MEMORY TEST PROGRAM - RMC
706249-11B00		901998	DESCRIPTION PRINTED
706249-84B00			ABSOLUTE BINARY CARDS
901998			SIGMA 5-9 ROTATING MEMORY TEST DIAGNOSTIC PROGRAMMING MANUA
706252AB	B3	SIGMA 2/3	TELETYPE TERMINAL SIMULATOR PROGRAMS
706252-11B00			DESCRIPTION PRINTED
706252-36B00			SOURCE MAG TAPE, 9 CHANNELS
706253AA	A1	SIGMA 5/6/7	CIRC-TRANSIENT
706253-11A00			DESCRIPTION PRINTED
706253-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706253-36A00			SOURCE MAG TAPE, 9 CHANNELS
706253-74A00			CONTROL CARD DECKS FOR LOAD, COMPILE, AND TEST
901786			CIRC-TRANSIENT REFERENCE MANUAL AND USERS GUIDE
706254AA	B1	SIGMA 2/3	XEROX DISPLAY STATION PROCEDURAL HANDLER
706254-11A00			DESCRIPTION PRINTED
706254-24A00			RELOCATABLE BINARY CARDS
706254-44A00			COMPRESSED CARDS
706255AB	B1	SIGMA 2/3-530	MESSAGE ORIENTED COMM. DEVICE HANDLER
706255-11B00			DESCRIPTION PRINTED
706255-34B00			SOURCE CARDS
706255-36B00			SOURCE MAG TAPE, 9 CHANNELS
706257AC	B1	SIGMA 2/3-530	XEROX 530 DISK SORT
706257-11B00			DESCRIPTION PRINTED
706257-24B01		880816-06	RELOCATABLE BINARY CARDS
706257-26B01		880816-06	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706257-36B01			SOURCE MAG TAPE, 9 CHANNELS
901787			XEROX SIGMA 3 DISK SORT REFERENCE MANUAL
706259AB	B1	SIGMA 5-9	RBM/BPM HANDLER FOR HOC'D'S
706259-11A01			DESCRIPTION PRINTED
706259-44A01			COMPRESSED CARDS
706262AA	B1	SIGMA 3	7580 GRAPHIC DISPLAY DIAGNOSTIC
706262-11A00		901871	DESCRIPTION PRINTED
706262-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706262-84A00			ABSOLUTE BINARY CARDS
901871			DIAGNOSTIC PROGRAM MANUAL 7580 GRAPHIC DISPLAY DIAGNOSTIC
706263AC	B1	SIGMA 5-9	XEROX DISPLAY STATION PROCEDURAL HANDLER
706263-11A02			DESCRIPTION PRINTED
706263-44A02			COMPRESSED CARDS

706264AD	B1	SIGMA 8/9	CPU HARD CORE PREP (HCP)
706264-11A03	901874		DESCRIPTION PRINTED
706264-84A03			ABSOLUTE BINARY CARDS
901874			SIGMA 8/9 - CPU HARD CORE PREP
706267AA	B1	SIGMA 8/9	REMOTE GUIDE
706267-74A00	706267-84		BIAS/RELOCATION DECK
706267-84A00			ABSOLUTE BINARY CARDS
706271AB	B1	SIGMA 5/6/7	PORT TEST C01
706271-11C01			DESCRIPTION PRINTED
706271-24C01			RELOCATABLE BINARY CARDS
706271-44C01			COMPRESSED CARDS
706275AB	B1	SIGMA 2/3-530	RBM REPLACE
706275-11F00	705368-11		DESCRIPTION PRINTED
706277AC	B1	SIGMA 2/3-530	ANS FORTRAN IV
706277-11C00			DESCRIPTION PRINTED
706277-23C00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706277-24C00			RELOCATABLE BINARY CARDS
706277-26C00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706277-46C00	706277-26		COMPRESSED MAG TAPE, 9 CHANNELS
706277-73C00	706277-23		TEST CASE ON PAPER TAPE
706277-74C00	706277-24		TEST CASE ON CARD DECK
706277-76C00	706277-26		TEST CASE ON MAG TAPE
706280AA	B1	SIGMA 8/7/9	SYSTEM SAVE/RESTORE PROGRAM
706280-11A00			DESCRIPTION PRINTED
706280-44A00			COMPRESSED CARDS
706280-84A00			ABSOLUTE BINARY CARDS
706292AB	B3	SIGMA 5-9	BASIC CONCORDANCE
706292-11A01			DESCRIPTION PRINTED
706292-24A01			RELOCATABLE BINARY CARDS
706292-34A01			SOURCE CARDS
706295AA	B1	SIGMA 8/9	MEMORY DIAGNOSTIC - COM16
706295-84A00			ABSOLUTE BINARY CARDS
706298AA	B1	SIGMA 5-9	BPM/BTH FAST SAVE
706298-11A00			DESCRIPTION PRINTED
706298-44A00			COMPRESSED CARDS
706401AD	B1	SIGMA 2/3-530	XEROX REPORT PROGRAM GENERATOR (RPO II)
706401-11C00			DESCRIPTION PRINTED
706401-24C01	880816-06		RELOCATABLE BINARY CARDS
706401-26C01	880816-06		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706401-36C01			SOURCE MAG TAPE, 9 CHANNELS
901841			XEROX REPORT PROGRAM GENERATOR (RPO II) REF. MAN.
706410AC	B1	SIGMA 5-9	MAGNETIC TAPE LIBRARY LOADER
706410-11A02	705692-11		DESCRIPTION PRINTED
706410-84A02			ABSOLUTE BINARY CARDS
706411AA	B1	SIGMA 5-9	OPTICAL CHARACTER PRINTER TEST PROGRAM
706411-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706411-84A00			ABSOLUTE BINARY CARDS

706412AC	B1	*****UNDEFINED*****	TEXT
706412-11A02			DESCRIPTION PRINTED
706412-26A02			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706412-46A02	706412-26		COMPRESSED MAG TAPE, 9 CHANNELS
706412-61A02	706412-11		UPDATE INSTRUCTIONS PRINTED
706412-71A02	706412-11		TEST DESCRIPTION PRINTED
706412-76A02	706412-26		SYSOEN AND LOAD FILES ON TAPE
706417AB	B1	SIGMA 2/3-530	9-CHANNEL POTTER MAGNETIC TAPE TEST
706417-11B01			DESCRIPTION PRINTED
706417-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
706417-84B01			ABSOLUTE BINARY CARDS
706419AB	B1	SIGMA 5-9	XEROX REPORT PROGRAM GENERATOR (RPG)
706419-11B00			DESCRIPTION PRINTED
706419-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706419-46B00	706419-26		COMPRESSED MAG TAPE, 9 CHANNELS
706419-71B00	706419-11		TEST DESCRIPTION
706419-76B00	706419-26		TEST PROGRAM ON MAG TAPE
901999			XEROX REPORT PROGRAM GENERATOR (RPG)
706424AC	B1	SIGMA 5-9	REMOVABLE DISK STORAGE TEST
706424-11C01			DESCRIPTION PRINTED
706424-51C01	903052		LISTING PRINTED
706424-84C01			ABSOLUTE BINARY CARDS
903052			SIGMA 5-9 REMOVABLE DISK TEST DIAG. REF. MANUAL
706433AA	B1	SIGMA 6/7/9	XEROX UTS/EASY
706433-11A00			DESCRIPTION PRINTED
706433-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706433-46A00	706433-26		COMPRESSED MAG TAPE, 9 CHANNELS
706433-76A00	706433-26		TEST PROGRAM
706433-86A00	706433-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706434AC	B1	SIGMA 6-9	XEROX APL
706434-11B00			DESCRIPTION PRINTED
706434-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706434-46B00	706434-26		COMPRESSED MAG TAPE, 9 CHANNELS
706434-76B00	706434-26		TEST PROGRAM ON MAG TAPE
706434-86B00	706434-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706436AA	B1	SIGMA 6-9	ON-LINE COMPUTER CENTER SUBSYSTEM CCS
706436-11B00			DESCRIPTION PRINTED
706436-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706436-36B00	706436-26		SOURCE MAG TAPE, 9 CHANNELS
706436-86B00	706436-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
706437AC	B3	SIGMA 5-9	SCU INTERPRETER
706437-11C00			DESCRIPTION PRINTED
706437-24C00			RELOCATABLE BINARY CARDS
706437-44C00			COMPRESSED CARDS
706438AA	B3	SIGMA 5	VARIAN MULTISTYLUS DIAGNOSTIC
706438-11A00			DESCRIPTION PRINTED
706438-24A00			RELOCATABLE BINARY CARDS
706438-44A00			COMPRESSED CARDS
706439AA	B3	SIGMA 5/7	PANAVIA DIAGNOSTIC UTILITY
706439-11A00			DESCRIPTION PRINTED
706439-24A00			RELOCATABLE BINARY CARDS
706439-44A00			COMPRESSED CARDS
706440AA	B3	SIGMA 5/7	TAPE MOTION - TIME CONTROL DIAGNOSTIC
706440-11A00			DESCRIPTION PRINTED
706440-24A00			RELOCATABLE BINARY CARDS
706440-44A00			COMPRESSED CARDS

706441AA	B3	SIGMA 5/7	PANAVIA CART
706441-11A00			DESCRIPTION PRINTED
706441-24A00			RELOCATABLE BINARY CARDS
706441-44A00			COMPRESSED CARDS
706442AA	B3	SIGMA 5/7	PANAVIA TMS09A DIAGNOSTIC
706442-11A00			DESCRIPTION PRINTED
706442-24A00			RELOCATABLE BINARY CARDS
706442-44A00			COMPRESSED CARDS
706443AA	B1	SIGMA 5-9	COPY PROGRAM MAG TAPE TO DISK
706443-11A00			DESCRIPTION PRINTED
706443-84A00			ABSOLUTE BINARY CARDS
706447AA	B3	SIGMA 2/3	PARAMETER PREPARATION ROUTINE (PPR)
706447-11A00			DESCRIPTION PRINTED
706447-24A00			RELOCATABLE BINARY CARDS
706447-34A00			SOURCE CARDS
706448AA	B1	SIGMA 2/3	INDUMP
706448-11A00			DESCRIPTION PRINTED
706448-24A00			RELOCATABLE BINARY CARDS
706448-34A00			SOURCE CARDS
706448-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706448-36A00	706448-26		SOURCE MAG TAPE, 9 CHANNELS
706449AA	B3	SIGMA 2/3	PAPER TAPE DUPLICATOR/VERIFIER
706449-11A00			DESCRIPTION PRINTED
706449-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
706449-24A00			RELOCATABLE BINARY CARDS
706449-44A00			COMPRESSED CARDS
706450AC	B1	SIGMA 5-9	META-SYMBOL PROCEDURE DECK FOR SCU
706450-11B01			DESCRIPTION PRINTED
706450-44B01			COMPRESSED CARDS
706451AA	B3	SIGMA 2/3	TMS09B/XPS97 DIAGNOSTIC
706451-11A00			DESCRIPTION PRINTED
706451-44A00			COMPRESSED CARDS
706451-84A00			ABSOLUTE BINARY CARDS
706454AA	B3	SIGMA 7/9	RELIABILITY PREDICTION CREATE/UPDATE
706454-11A00			DESCRIPTION PRINTED
706454-24A00			RELOCATABLE BINARY CARDS
706454-34A00			SOURCE CARDS
706455AA	B3	SIGMA 7/9	RELIABILITY PREDICTION CALCULATION
706455-11A00			DESCRIPTION PRINTED
706455-24A00			RELOCATABLE BINARY CARDS
706455-34A00			SOURCE CARDS
706456AA	B3	SIGMA 7/9	RELIABILITY PREDICTION REPORT GENERATOR
706456-11A00			DESCRIPTION PRINTED
706456-24A00			RELOCATABLE BINARY CARDS
706456-34A00			SOURCE CARDS
706457AA	B3	SIGMA 7/9	RECOMMENDED SPARES
706457-11A00			DESCRIPTION PRINTED
706457-24A00			RELOCATABLE BINARY CARDS
706457-34A00			SOURCE CARDS

706459AC B1 SIGMA 5-9 XEROX ASSEMBLY PROGRAM (AP)
 706459-11B00 DESCRIPTION PRINTED
 706459-24B00 RELOCATABLE BINARY CARDS
 706459-26B00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 706459-44B00 706459-24 COMPRESSED CARDS
 706459-46B00 706459-26 COMPRESSED MAG TAPE, 9 CHANNELS
 706459-74B00 706459-24 TEST PROGRAM
 706459-76B00 706459-26 TEST PROGRAM
 903000 XEROX ASSEMBLY PROGRAM LANGUAGE AND OPERATION MANUAL

706461AB A1 SIGMA 6-9/550/560 XEROX DATA MANAGEMENT SYSTEM - EXTENDED
 706461-11B00 DESCRIPTION PRINTED
 706461-26B00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 706461-46B00 706461-26 COMPRESSED MAG TAPE, 9 CHANNELS
 706461-61B00 706461-11 UPDATE INSTRUCTIONS PRINTED
 706461-71B00 706461-11 TEST PROGRAM DESCRIPTION
 706461-76B00 706461-26 TEST PROGRAM SOURCE FILE

706462AB B3 SIGMA 2/3-530 POTTER 3000/3300 PRINTER DIAGNOSTIC
 706462-11B00 DESCRIPTION PRINTED
 706462-44B00 COMPRESSED CARDS
 706462-83B00 ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
 706462-84B00 ABSOLUTE BINARY CARDS

706463AB B1 XEROX 530 ANS FORTRAN IV
 706463-11C00 DESCRIPTION PRINTED
 706463-23C00 RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
 706463-24C00 RELOCATABLE BINARY CARDS
 706463-26C00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 706463-46C00 706453-26 COMPRESSED MAG TAPE, 9 CHANNELS
 706463-73C00 706463-23 TEST PAPER TAPE
 706463-74C00 706463-24 TEST ON CARDS
 706463-76C00 706463-26 TEST ON MAG TAPE

706464AA B1 SIGMA 2/3-530 RBM ANALYZE
 706464-11F00 705368-11 DESCRIPTION PRINTED

706466AA B1 SIGMA 8/7/9 INTERACTIVE DATABASE PROCESSOR (IDP)
 706466-11A00 DESCRIPTION PRINTED
 706466-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 706466-46A00 706466-26 COMPRESSED MAG TAPE, 9 CHANNELS
 706466-61A00 706466-11 UPDATE INSTRUCTIONS PRINTED
 706466-71A00 706466-11 TEST PROGRAM DESCRIPTION
 706466-76A00 706466-26 TEST PROGRAM SOURCE FILE
 903066 XEROX IDP/LANGUAGE AND OPERATIONS REFERENCE MANUAL

706467AA B3 SIGMA 5-9 RBM ERROR LOG LISTER
 706467-11A00 DESCRIPTION PRINTED
 706467-24A00 RELOCATABLE BINARY CARDS

706468AA B3 SIGMA 2/3 7907 CLOSED LOOP DIAGNOSTIC
 706468-11A00 DESCRIPTION PRINTED
 706468-44A00 COMPRESSED CARDS
 706468-84A00 ABSOLUTE BINARY CARDS

706469AB B3 SIGMA 5-9 7907 DIAGNOSTIC PROGRAM
 706469-11A01 DESCRIPTION PRINTED
 706469-44A00 COMPRESSED CARDS
 706469-84A00 ABSOLUTE BINARY CARDS

706470AA B3 SIGMA 2/3 7908 CLOSED LOOP DIAGNOSTIC
 706470-11A00 DESCRIPTION PRINTED
 706470-44A00 COMPRESSED CARDS
 706470-84A00 ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

706471AC	B3	SIGMA 5-9	2230/2470 LINE PRINTER DIAGNOSTIC
706471-11A02			DESCRIPTION PRINTED
706471-44A02			COMPRESSED CARDS
706471-84A02			ABSOLUTE BINARY CARDS
706472AA	B1	SIGMA 5-9	STAND-ALONE OCP DIAGNOSTIC CONTROL PROG.
706472-11A00			DESCRIPTION PRINTED
706472-84A00			ABSOLUTE BINARY CARDS
706473AB	B1	SIGMA 5-9	NS LINE PRINTER DIAGNOSTIC
706473-11A00			DESCRIPTION PRINTED
706473-61A01			UPDATE INSTRUCTIONS PRINTED
706473-84A01			ABSOLUTE BINARY CARDS
903072			SIGMA 5-9 LINE PRINTER DIAGNOSTIC MANUAL
706476AB	B3	SIGMA 2/3-530	2230/2440 LINE PRINTER
706476-11A00			DESCRIPTION PRINTED
706476-44A01			COMPRESSED CARDS
706476-61A01			UPDATE INSTRUCTIONS PRINTED
706476-84A01			ABSOLUTE BINARY CARDS
706477AA	B1	SIGMA 2/3-530	EXERCISER CONTROL PROGRAM
706477-11A00			DESCRIPTION PRINTED
706477-84A00			ABSOLUTE BINARY CARDS
706478AA	B1	SIGMA 2/3-530	CARD READER/CARD PUNCH EXERCISER
706478-11A00			DESCRIPTION PRINTED
706478-74A00			TEST DATA DECK
706478-84A00			ABSOLUTE BINARY CARDS
706479AA	B1	SIGMA 2/3-530	LINE PRINTER EXERCISER
706479-11A00			DESCRIPTION PRINTED
706479-84A00			ABSOLUTE BINARY CARDS
706480AA	B1	SIGMA 2/3-530	MAGNETIC TAPE EXERCISER
706480-11A00			DESCRIPTION PRINTED
706480-84A00			ABSOLUTE BINARY CARDS
706481AB	B1	SIGMA 2/3-530	ERROR LOG LIST/ANALYSIS PROGRAM
706481-11A00			DESCRIPTION PRINTED
706481-61A01			UPDATE INSTRUCTIONS PRINTED
706481-84A01			ABSOLUTE BINARY CARDS
706482AA	B1	SIGMA 2/3-530	CONTROL PROGRAM FOR ELLA 530
706482-11A00			DESCRIPTION PRINTED
706482-84A00			ABSOLUTE BINARY CARDS
706483AA	B1	SIGMA 2/3-530	CHRONOLOGICAL LIST. MODULE FOR ELLA 530
706483-11A00			DESCRIPTION PRINTED
706483-84A00			ABSOLUTE BINARY CARDS
706484AB	B1	SIGMA 2/3-530	BOUNDARY ROUTINE FOR ELLA 530
706484-11A00			DESCRIPTION PRINTED
706484-61A01			UPDATE INSTRUCTIONS PRINTED
706484-84A01			ABSOLUTE BINARY CARDS
706485AA	B1	SIGMA 2/3-530	GRAPHICAL DISPLAY MODULE FOR ELLA 530
706485-11A00			DESCRIPTION PRINTED
706485-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

706486AA	B1	SIGMA 2/3-530	SUMMARY MODULE FOR ELLA 530
706486-11A00			DESCRIPTION PRINTED
706486-84A00			ABSOLUTE BINARY CARDS
706487AA	B1	SIGMA 2/3-530	SORTED LISTING MODULE FOR ELLA 530
706487-11A00			DESCRIPTION PRINTED
706487-84A00			ABSOLUTE BINARY CARDS
706488AA	B1	SIGMA 2/3-530	ON-LINE EXERCISER SYSTEM
706488-11A00			DESCRIPTION PRINTED
706488-74A00			TEST DATA DECK
706488-84A00			ABSOLUTE BINARY CARDS
706489AA	B3	SIGMA 6/7/9	SCU LINKING LOADER
706489-11A00			DESCRIPTION PRINTED
706489-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706489-36A00		706489-26	SOURCE MAG TAPE, 9 CHANNELS
706491AA	B1	SIGMA 3-530	XEROX SATELLITE PROCESSOR
706491-11A00			DESCRIPTION PRINTED
706491-24A00			RELOCATABLE BINARY CARDS
706491-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706491-46A00		706491-26	COMPRESSED MAG TAPE, 9 CHANNELS
706495AA	B1	SIGMA 6-9/550/560	SORT PERFORMANCE JOB STREAM FOR CP-V
706495-11A00			DESCRIPTION PRINTED
706495-24A00			RELOCATABLE BINARY CARDS
706498AA	B1	SIGMA 6-9/550/560	EDMS RESTRUCTURING PROCESSOR (DMSREST)
706498-11A00			DESCRIPTION PRINTED
706498-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706498-46A00		706498-26	COMPRESSED MAG TAPE, 9 CHANNELS
706498-61A00		706498-11	UPDATE INSTRUCTIONS PRINTED
706498-71A00		706498-11	TEST PROGRAM PRINTED
706498-76A00		706498-26	TEST PROGRAM ON TAPE
903012			EXTENDED DATA MANAGEMENT REFERENCE MANUAL
706499AA	B3	SIGMA 6-9	GENERATE PAPER TAPE UTILITY
706499-11A00			DESCRIPTION PRINTED
706499-44A00			COMPRESSED CARDS
706499-84A00			ABSOLUTE BINARY CARDS
706500AB	B1	SIGMA 3-530	XEROX 530 ANS COBOL COMPILER
706500-11A00			DESCRIPTION PRINTED
706500-24A01		880816-06	RELOCATABLE BINARY CARDS
706500-26A01		880816-06	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
706500-36A01			SOURCE MAG TAPE, 9 CHANNELS
706500-71A00		706500-11	TEST PROGRAM DESCRIPTION
903090			XEROX ANS COBOL (FOR RBM) LANGUAGE AND OPERATIONS MANUAL
706501AA	B3	SIGMA 2/3-530	RBM-18 DATADEF
706501-11A00			DESCRIPTION PRINTED
706501-34A00			SOURCE CARDS
706501-38A00			SOURCE MAG TAPE, 9 CHANNELS
706504AB	B3	SIGMA 6/7/9	BOOK
706504-11A01			DESCRIPTION PRINTED
706504-36A01			SOURCE MAG TAPE, 9 CHANNELS
706504-51A01			LISTING PRINTED

707000AD	B1	SIGMA 6-9/550/560	CONTROL PROGRAM FIVE CP-V
707000-02C00			UNPUBLISHED TECHNICAL DOCUMENT
707000-11C00			DESCRIPTION PRINTED
707000-26C00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
707000-26C00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
707000-46C00	707000-26		COMPRESSED MAG TAPE, 9 CHANNELS
707000-66C00	707000-26		UPDATE ON MAG TAPE, 9 CHANNELS
707000-76C00			QUAC SYSTEM TEST TAPE
707000-86C00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
707000-86C00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
707000-91C00			REFERENCE MANUAL UPDATES PRINTED
900907			CP-V TS REFERENCE MANUAL
901674			CP-V SM REFERENCE MANUAL
901675			CP-V OPS REFERENCE MANUAL
901692			CP-V USERS' GUIDE
901764			CP-V BP REFERENCE MANUAL
901995			CP-V DATABASE TECH MANUAL
903026			CP-V REMOTE PROCESSING MANUAL
903112			CP-V TRANSACTION PROCESSING REFERENCE MANUAL
903113			CP-V SYSTEM PROGRAMMERS REFERENCE MANUAL
708000AC	B1	*****UNDEFINED*****	CONTROL PROGRAM FOR REAL-TIME (CP-R)
708000-11C00			DESCRIPTION PRINTED
708000-46C00			COMPRESSED MAG TAPE, 9 CHANNELS
708000-76C00	708000-86		TEST PROGRAM ON MAG TAPE
708000-86C00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
903085			XEROX SIGMA 9 CP-R REFERENCE MANUAL
903086			XEROX SIGMA 9 CP-R OPERATIONS MANUAL
903087			XEROX SIGMA 9 CP-R USER'S GUIDE
903088			XEROX SIGMA 9 CP-R TECHNICAL MANUAL
903110			XEROX SIGMA 9 CP-R AVAILABILITY MANUAL
708001AA	B1	SIGMA 5-9/550/560	ON-LINE EXERCISER SYSTEM FOR CP-R
708001-11A00			DESCRIPTION PRINTED
708001-74A00			TEST DATA DECK
708001-84A00			ABSOLUTE BINARY CARDS
708002AA	B1	SIGMA 5-9/550/560	EXERCISER CONTROL PROGRAM FOR CP-R
708002-11A00			DESCRIPTION PRINTED
708002-84A00			ABSOLUTE BINARY CARDS
708003AA	B1	SIGMA 5-9/550/560	CARD READER/CARD PUNCH EXERCISER (CP-R)
708003-11A00			DESCRIPTION PRINTED
708003-74A00			TEST DATA DECK
708003-84A00			ABSOLUTE BINARY CARDS
708004AA	B1	SIGMA 5-9/550/560	LINE PRINTER EXERCISER FOR CP-R
708004-11A00			DESCRIPTION PRINTED
708004-84A00			ABSOLUTE BINARY CARDS
708005AA	B1	SIGMA 5-9/550/560	MAGNETIC TAPE EXERCISER FOR CP-R
708005-11A00			DESCRIPTION PRINTED
708005-84A00			ABSOLUTE BINARY CARDS
708006AA	B1	SIGMA 5-9/550/560	CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)
708006-11A00			DESCRIPTION PRINTED
708006-84A00			ABSOLUTE BINARY CARDS
708007AA	B1	SIGMA 5-9/550/560	CP-V/CP-R-CONTROL PROGRAM FOR ELLA
708007-11A00			DESCRIPTION PRINTED
708007-84A00			ABSOLUTE BINARY CARDS
708008AA	B1	SIGMA 5-9/550/560	CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD
708008-11A00			DESCRIPTION PRINTED
708008-84A00			ABSOLUTE BINARY CARDS

708009AA	B1	SIGMA 5-9/550/560	CP-V/CP-R-BOUNDARY MODULE FOR ELLA
708009-11A00			DESCRIPTION PRINTED
708009-84A00			ABSOLUTE BINARY CARDS
708010AA	B1	SIGMA 5-9/550/560	CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA
708010-11A00			DESCRIPTION PRINTED
708010-84A00			ABSOLUTE BINARY CARDS
708011AA	B1	SIGMA 5-9/550/560	CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA
708011-11A00			DESCRIPTION PRINTED
708011-84A00			ABSOLUTE BINARY CARDS
720000AB	B1	SIGMA 2/3-530	XEROX DIAG.PROG. LOADER (16-BIT MACHINE)
720000-11A00			DESCRIPTION PRINTED
720000-61A01			UPDATE INSTRUCTIONS PRINTED
720000-84A01			ABSOLUTE BINARY CARDS
720001AB	B1	XEROX 530	HARDCORE MEMORY DIAGNOSTIC
720001-11A00			DESCRIPTION PRINTED
720001-61A01			UPDATE INSTRUCTIONS PRINTED
720001-84A01			ABSOLUTE BINARY CARDS
720002AA	B1	XEROX 530	MEMORY DIAGNOSTIC
720002-11A00			DESCRIPTION PRINTED
720002-84A00			ABSOLUTE BINARY CARDS
720004AC	B1	XEROX 530	DIAGNOSTIC PROGRAM MONITOR
720004-11A01			DESCRIPTION PRINTED
720004-61A02			UPDATE INSTRUCTIONS PRINTED
720004-84A02			ABSOLUTE BINARY CARDS
720005AA	B1	XEROX 530	INSTRUCTION DIAGNOSTIC
720005-11A00			DESCRIPTION PRINTED
720005-84A00			ABSOLUTE BINARY CARDS
720006AB	B1	XEROX 530	INTERRUPT DIAGNOSTIC PROGRAM
720006-11A00			DESCRIPTION PRINTED
720006-61A01			UPDATE INSTRUCTIONS PRINTED
720006-84A01			ABSOLUTE BINARY CARDS
720007AA	B1	XEROX 530	IOP DIAGNOSTIC
720007-11A00			DESCRIPTION PRINTED
720007-84A00			ABSOLUTE BINARY CARDS
720009AC	B1	XEROX 530	XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT)
720009-11C00			DESCRIPTION PRINTED
720009-86C00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
720010AC	B1	SIGMA 2/3-530	XEROX SOFTWARE HARDCORE TEST (16-BIT)
720010-11B00			DESCRIPTION PRINTED
720010-61B01			UPDATE INSTRUCTIONS PRINTED
720010-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
720010-84B01			ABSOLUTE BINARY CARDS
720011AB	B1	XEROX 530	HARDWARE HARDCORE DIAGNOSTIC
720011-11A00			DESCRIPTION PRINTED
720011-61A01			UPDATE INSTRUCTIONS PRINTED
720011-84A01			ABSOLUTE BINARY CARDS
901960			XEROX 530 COMPUTER REFERENCE MANUAL

720012AA	B1	XEROX 530	CPU OPTIONAL INSTRUCTION DIAGNOSTIC
720012-11A00			DESCRIPTION PRINTED
720012-84A00			ABSOLUTE BINARY CARDS
720013AD	B1	XEROX 530	MANUAL CONTROL DIAGNOSTIC
720013-11A01			DESCRIPTION PRINTED
720013-61A02			UPDATE INSTRUCTIONS PRINTED
720013-61A03			UPDATE INSTRUCTIONS PRINTED
720013-84A03			ABSOLUTE BINARY CARDS
720014AC	B1	SIGMA 3-530	SYSTEMS EXERCISER (SYSX)
720014-11A02			DESCRIPTION PRINTED
720014-84A02			ABSOLUTE BINARY CARDS
720015AA	B1	SIGMA 3-530	DPS LOAD AND GO (LAG) PROCESSOR
720015-11A00			DESCRIPTION PRINTED
720015-84A00			ABSOLUTE BINARY CARDS
720016AA	B1	SIGMA 3-530	DIAGNOSTIC PROGRAM SYSTEM MONITOR
720016-11A00			DESCRIPTION PRINTED
720016-84A00			ABSOLUTE BINARY CARDS
720020AA	B1	XEROX 530	NS LINE PRINTER DIAGNOSTIC PROGRAM
720020-11A00			DESCRIPTION PRINTED
720020-84A00			ABSOLUTE BINARY CARDS
720021AA	B1	XEROX 530	BRANCH DATA ENTRY SYSTEMS EXERCISER
720021-11A00			DESCRIPTION PRINTED
720021-84A00			ABSOLUTE BINARY CARDS
720022AB	B2	XEROX 530	XEROX COIN-X530 DIAG. PROGRAM LIBRARY
720022-11B00			DESCRIPTION PRINTED
720022-56B00			LISTING MAG TAPE, 9 CHANNELS
720022-86B00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
720023AB	B2	XEROX 530	XEROX COIN-X530 DIAG. PROG. LIB. CONTROL
720023-11B00		720022-11	DESCRIPTION PRINTED
720023-56B00		720022-56	LISTING MAG TAPE, 9 CHANNELS
720023-86B00		720022-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
720024AA	B2	XEROX 530	COIN CC33 TEST PROGRAM
720024-11A00			DESCRIPTION PRINTED
720024-44A00			COMPRESSED CARDS
720024-84A00			ABSOLUTE BINARY CARDS
730000AA	B1	XEROX 550/560	INSTRUCTION DIAGNOSTIC - AUTO
730000-11A00			DESCRIPTION PRINTED
730000-84A00			ABSOLUTE BINARY CARDS
730001AA	B1	XEROX 550/560	INSTRUCTION DIAGNOSTIC - SUFFIX
730001-11A00			DESCRIPTION PRINTED
730001-84A00			ABSOLUTE BINARY CARDS
730002AA	B1	XEROX 550/560	INSTRUCTION DIAGNOSTIC - FADS
730002-11A00			DESCRIPTION PRINTED
730002-84A00			ABSOLUTE BINARY CARDS
730003AA	B1	XEROX 550/560	MEMORY DIAGNOSTIC PROGRAM
730003-11A00			DESCRIPTION PRINTED
730003-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

730004AA	B1	XEROX 550/560	MAP DIAGNOSTIC PROGRAM
730004-11A00			DESCRIPTION PRINTED
730004-84A00			ABSOLUTE BINARY CARDS
730005AA	B1	XEROX 550/560	MIOP DIAGNOSTIC PROGRAM
730005-11A00			DESCRIPTION PRINTED
730005-84A00			ABSOLUTE BINARY CARDS
730006AA	B1	XEROX 550/560	INTERRUPT SYSTEM DIAGNOSTIC PROGRAM
730006-11A00			DESCRIPTION PRINTED
730006-84A00			ABSOLUTE BINARY CARDS
730008AA	B1	XEROX 550/560	SOFTWARE HARDWARE (SHC) DIAGNOSTIC
730008-11A00			DESCRIPTION PRINTED
730008-84A00			ABSOLUTE BINARY CARDS
730009AA	B1	XEROX 550/560	SYS UNIT/PROCS INTRFACE UNIT DIAG-SUPI
730009-11A00			DESCRIPTION PRINTED
730009-84A00			ABSOLUTE BINARY CARDS
730010AA	B1	XEROX 550/560	SYSTEM EXERCISER DIAGNOSTIC (SYSX)
730010-11A00			DESCRIPTION PRINTED
730010-84A00			ABSOLUTE BINARY CARDS
730011AA	B1	XEROX 550/560	XEROX 32-BIT LIBRARY LOADER
730011-11A00			DESCRIPTION PRINTED
730012AA	B1	XEROX 550/560	DIAGNOSTIC PROGRAM SYSTEM MONITOR
730012-11A00			DESCRIPTION PRINTED
730013AA	B1	XEROX 550/560	LOAD-AND-GO (LAG) DIAGNOSTIC PROG. SYS.
730013-11A00			DESCRIPTION PRINTED
730014AA	B1	XEROX 550/560	32-BIT EDIT DIAGNOSTIC SYSTEM PROGRAM
730014-11A00			DESCRIPTION PRINTED
730016AA	B1	XEROX 550/560	MEDIUM SPEED MAGNETIC TAPE DIAGNOSTIC
730016-11A00			DESCRIPTION PRINTED
730016-84A00			ABSOLUTE BINARY CARDS
730017AA	B1	XEROX 550/560	LINE PRINTER DIAGNOSTIC PROGRAM
730017-11A00			DESCRIPTION PRINTED
730017-84A00			ABSOLUTE BINARY CARDS
730021AA	B1	XEROX 550/560	TRAP DIAGNOSTIC PROGRAM
730021-11A00			DESCRIPTION PRINTED
730021-84A00			ABSOLUTE BINARY CARDS
730022AA	B1	XEROX 550/560	POWER FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM
730022-11A00			DESCRIPTION PRINTED
730022-84A00			ABSOLUTE BINARY CARDS
730023AA	B1	XEROX 560	BYTE INSTRUCTION DIAGNOSTIC PROGRAM
730023-11A00			DESCRIPTION PRINTED
730023-84A00			ABSOLUTE BINARY CARDS

730024AA	B1	XEROX 560	DECM DIAGNOSTIC PROGRAM	|
730024-11A00			DESCRIPTION PRINTED	|
730024-84A00			ABSOLUTE BINARY CARDS	|
730025AA	B1	XEROX 560	DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY	|
730025-11A00			DESCRIPTION PRINTED	|
730025-86A00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS	|
730029AA	B1	XEROX 550/560	SYSTEM CONTROL CONSOLE DIAGNOSTIC PROG.	|
730029-11A00			DESCRIPTION PRINTED	|
730029-84A00			ABSOLUTE BINARY CARDS	|
730030AA	B1	XEROX 550/560	32-BIT I/O UTILITY PROGRAM	|
730030-11A00			DESCRIPTION PRINTED	|
730030-84A00			ABSOLUTE BINARY CARDS	|
850000AB	B3	900-SERIES	MONARCH COMMON SOFTWARE PACKAGE	
850000-11B00			DESCRIPTION PRINTED	
850000-35B00			SOURCE MAG TAPE, 7 CHANNELS	
900566			XDS MONARCH REFERENCE MANUAL	
900616			XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS	
850001AB	B3	9-SERIES	MONARCH TAPE LOADER (LOAD)	
850001-11B00		850000-11	DESCRIPTION PRINTED	
850001-35B00		850000-35	SOURCE MAG TAPE, 7 CHANNELS	
850004AB	B3	9-SERIES	MONARCH RAD LOADER (LOAD)	
850004-11B00		850000-11	DESCRIPTION PRINTED	
850004-35B00		850000-35	SOURCE MAG TAPE, 7 CHANNELS	
850022AA	B3	9-SERIES	PURGE FOR RAD MONARCH	
850022-11A00			DESCRIPTION PRINTED	
850022-25A00		850036-85	RELOCATABLE BINARY MAG TAPE, 7 CHANNELS	
850022-25A00		850038-85	RELOCATABLE BINARY MAG TAPE, 7 CHANNELS	
850022-35A00		850000-35	SOURCE MAG TAPE, 7 CHANNELS	
850023AA	B3	900-SERIES	BOOTSTRAP GENERATOR FOR RAD MONARCH	
850023-11A00			DESCRIPTION PRINTED	
850023-34A00		850000-35	SOURCE CARDS	
850023-51A00		850000-51	LISTING PRINTED	
850023-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS	
850035AB	B3	910	910/925 TAPE MONARCH SYSTEM	
850035-11B00			DESCRIPTION PRINTED	
850035-74B00			TESTS AND DEMO DECKS	
850035-75B00			TESTS AND DEMO DECKS - 7 TR MAG TAPE	
850035-85B00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS	
900566			XDS MONARCH REFERENCE MANUAL	
900616			XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS	
850036AB	B3	9-SERIES	925 RAD MONARCH SYSTEM	
850036-11B00			DESCRIPTION PRINTED	
850036-74B00		850035-74	TEST AND DEMO DECKS	
850036-85B00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS	
850037AB	B3	9-SERIES	920/930 TAPE MONARCH SYSTEM	
850037-11B00			DESCRIPTION PRINTED	
850037-85B00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS	
850037-74B00		850035-74	TEST AND DEMO DECKS	
900566			XDS MONARCH REFERENCE MANUAL	
900616			XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS	

850038AB	B3	9-SERIES	930 RAD MONARCH SYSTEM
850038-11800			DESCRIPTION PRINTED
850038-74800	850035-74		TEST AND DEMO DECKS
850038-85800			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
850040AB	B3	900-SERIES	SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE
850040-11800			DESCRIPTION PRINTED
850040-35800			SOURCE MAG TAPE, 7 CHANNELS
900506			XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
900688			XDS 900 SERIES SYMBOL TECHNICAL MANUAL
850065AB	B3	900-SERIES	META-SYMBOL ASSEMB. COMMON SOFTWARE PKG
850065-11800			DESCRIPTION PRINTED
850065-45800			COMPRESSED MAG TAPE, 7 CHANNELS
900506			XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
900827			XDS META-SYMBOL TECHNICAL MANUAL
850090AA	B3	9-SERIES	META-SYMBOL PROC93CP
850090-44A00	850065-45		COMPRESSED CARDS
850090-51A00	850065-51		LISTING PRINTED
900506			900 SERIES/9300 SYMBOL AND META SYMBOL REFERENCE MANUAL
900827			META-SYMBOL TECHNICAL MANUAL
850095AB	B3	900-SERIES	MONARCH LIBRARY COMMON SOFTWARE PACKAGE
850095-11800			DESCRIPTION PRINTED
850095-35800			SOURCE MAG TAPE, 7 CHANNELS
900566			XDS MONARCH REFERENCE MANUAL
900616			XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
850161AA	B3	910	PROJECT MANAGEMENT SYSTEM (CPM) COVER
850161-11A00			DESCRIPTION PRINTED
850161-25A00			RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
900818			XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
900822			XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
901504			XDS EXTENDED PROJECT MANAGEMENT SYSTEMS
850210AB	B3	910/925	FORTRAN II COMMON SOFTWARE PACKAGE
850210-11800			DESCRIPTION PRINTED
850210-35800			SOURCE MAG TAPE, 7 CHANNELS
900003			FORTRAN II REFERENCE MANUAL
900587			XDS 900 SERIES FORTRAN II OPERATIONS MANUAL
850211AB	B3	9-SERIES	910/925 F-II COMPILER (FC-1)
850211-35800	850210-35		SOURCE MAG TAPE, 7 CHANNELS
850315AB	B3	9-SERIES	920/930 FORTRAN-II COMMON SOFTWARE PKG.
850315-11800			DESCRIPTION PRINTED
850315-35800			SOURCE MAG TAPE, 7 CHANNELS
850315-74800	850035-74		TEST AND DEMO DECKS
900003			FORTRAN II REFERENCE MANUAL
900587			XDS 900 SERIES FORTRAN II OPERATIONS MANUAL
850330AA	B3	9-SERIES	ALGOL COMMON SOFTWARE PACKAGE (COVER)
850330-11A00			DESCRIPTION PRINTED
850330-25A00			RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
850330-35A00			SOURCE MAG TAPE, 7 CHANNELS
900694			XDS ALGOL 60 TECHNICAL MANUAL, XDS 900 / 9300 COMPUTERS
900699			XDS ALGOL 60 REFERENCE MANUAL
850362AA	B3	920	PROJECT MANAGEMENT SYSTEM (CPM) COVER
850362-25A00	850161-25		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
900818			XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
900822			XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
901504			XDS EXTENDED PROJECT MANAGEMENT SYSTEM

850400AB	B3	910	REAL-TIME FORTRAN COMMON SOFTWARE PKG
850400-11B00			DESCRIPTION PRINTED
850400-35B00			SOURCE MAG TAPE, 7 CHANNELS
901048			XDS 900 SERIES REAL-TIME FORTRAN II TECHNICAL MANUAL
850480AB	B3	9-SERIES	920/930 R/T FORTRAN COMMON SOFTWARE PKG.
850480-11B00			DESCRIPTION PRINTED
850480-35B00			SOURCE MAG TAPE, 7 CHANNELS
850480-74B00	850035-74		TEST AND DEMO DECKS
901048			XDS 900 SERIES REAL-TIME FORTRAN II
850624AA	B3	9-SERIES	ZERO MEMORY
850624-11A00			DESCRIPTION PRINTED
850624-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850625AA	B3	9-SERIES	SELECTIVE MEMORY CLEAR - BOOTSTRAP
850625-11A00			DESCRIPTION PRINTED
850625-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850626AA	B3	9-SERIES	PAPER TAPE REPRODUCER PROGRAM
850626-11A00			DESCRIPTION PRINTED
850626-44A00			COMPRESSED CARDS
850626-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850626-84A00			ABSOLUTE BINARY CARDS
850627AA	B3	9-SERIES	BINARY VERIFY - BOOTSTRAP
850627-11A00			DESCRIPTION PRINTED
850627-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850628AA	B3	9-SERIES	MEMORY TYPE-OUT, REDUNDANCY ELIMINATION
850628-11A00			DESCRIPTION PRINTED
850628-34A00			SOURCE CARDS
850628-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850629AA	B3	9-SERIES	DEBUG
850629-11A00			DESCRIPTION PRINTED
850629-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850629-24A00			RELOCATABLE BINARY CARDS
850629-34A00			SOURCE CARDS
850634AA	B3	9-SERIES	BINARY PAPER TAPE BOOTSTRAP + GENERATOR
850634-11A00			DESCRIPTION PRINTED
850634-34A00			SOURCE CARDS
850634-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850637AA	B3	9-SERIES	BINARY PAPER TAPE LIST
850637-11A00			DESCRIPTION PRINTED
850637-34A00			SOURCE CARDS
850637-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850638AA	B3	9-SERIES	FORTAN II MEMORY SAVE
850638-11A00			DESCRIPTION PRINTED
850638-34A00			SOURCE CARDS
850638-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850639AA	B3	9-SERIES	PAPER TAPE PHOTO-READER TEST PROGRAM
850639-11A00			DESCRIPTION PRINTED
850639-34A00			SOURCE CARDS
850639-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850640AA	B3	9-SERIES	SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
850640-11A00			DESCRIPTION PRINTED
850640-44A00			COMPRESSED CARDS
850640-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850640-84A00			ABSOLUTE BINARY CARDS
850641AA	B3	9-SERIES	FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE
850641-11A00			DESCRIPTION PRINTED
850641-34A00			SOURCE CARDS
850641-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850642AB	B3	900-SERIES	MEDIA CONVERSION ROUTINE
850642-11B00			DESCRIPTION PRINTED
850642-35B00		850095-35	SOURCE MAG TAPE, 7 CHANNELS
850642-82B00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850642-84B00			ABSOLUTE BINARY CARDS
850643AA	B3	9-SERIES	BINARY DUMP, PAPER TAPE OR CARDS
850643-11A00			DESCRIPTION PRINTED
850643-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850643-24A00			RELOCATABLE BINARY CARDS
850643-44A00			COMPRESSED CARDS
850644AA	B3	9-SERIES	BINARY INPUT-BASIC PAPER TAPE LOADER
850644-11A00			DESCRIPTION PRINTED
850644-44A00			COMPRESSED CARDS
850644-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850645AA	B3	9-SERIES	UNIVERSAL LOADER
850645-11A00			DESCRIPTION PRINTED
850645-44A00			COMPRESSED CARDS
850645-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850645-84A00			ABSOLUTE BINARY CARDS
850646AA	B3	9-SERIES	XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR
850646-11A00			DESCRIPTION PRINTED
850646-24A00			RELOCATABLE BINARY CARDS
850646-44A00			COMPRESSED CARDS
850646-84A00			ABSOLUTE BINARY CARDS
850647AB	B3	900-SERIES	ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON)
850647-11B00			DESCRIPTION PRINTED
850647-35B00		850095-35	SOURCE MAG TAPE, 7 CHANNELS
850647-82B00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850647-84B00			ABSOLUTE BINARY CARDS
850648AA	B3	9-SERIES	BINARY INPUT ONE CARD LOADER
850648-11A00			DESCRIPTION PRINTED
850648-34A00			SOURCE CARDS
850648-84A00			ABSOLUTE BINARY CARDS
850649AA	B3	9-SERIES	BINARY INPUT-TWO CARD LOADER
850649-11A00			DESCRIPTION PRINTED
850649-44A00			COMPRESSED CARDS
850649-84A00			ABSOLUTE BINARY CARDS
850650AA	B3	9-SERIES	ABSOLUTE BINARY LOADER WITH CONSTANTS
850650-11A00			DESCRIPTION PRINTED
850650-34A00			SOURCE CARDS
850650-84A00			ABSOLUTE BINARY CARDS
850651AA	B3	9-SERIES	CARD FILL SIMULATOR (910/920)
850651-11A00			DESCRIPTION PRINTED
850651-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

850652AA	B3	9-SERIES	THREE CARD RELOCATABLE LOADER
850652-11A00			DESCRIPTION PRINTED
850652-34A00			SOURCE CARDS
850652-84A00			ABSOLUTE BINARY CARDS
850653AA	B3	9-SERIES	OCTAL INPUT-ONE CARD LOADER
850653-11A00			DESCRIPTION PRINTED
850653-34A00			SOURCE CARDS
850653-84A00			ABSOLUTE BINARY CARDS
850655AA	B3	9-SERIES	PHOTO READER TEST PROGRAM
850655-11A00			DESCRIPTION PRINTED
850655-44A00			COMPRESSED CARDS
850655-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850656AA	B3	9-SERIES	900 SERIES CARD READER TEST PROGRAM
850656-11A00			DESCRIPTION PRINTED
850656-44A00			COMPRESSED CARDS
850656-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850656-84A00			ABSOLUTE BINARY CARDS
850657AA	B3	9-SERIES	CARD PUNCH TEST PROGRAM PACKAGE -9156
850657-11A00			DESCRIPTION PRINTED
850657-34A00			SOURCE CARDS
850657-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850658AA	B3	9-SERIES	CARD PUNCH TEST PROGRAM -9157
850658-11A00			DESCRIPTION PRINTED
850658-34A00			SOURCE CARDS
850658-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850658-84A00			ABSOLUTE BINARY CARDS
			TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
850659AA	B3	9-SERIES	CARD PUNCH TEST PROG/MOD.9157(INTERLACE)
850659-11A00			DESCRIPTION PRINTED
850659-44A00			COMPRESSED CARDS
850659-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850659-84A00			ABSOLUTE BINARY CARDS
850660AA	B3	9-SERIES	STANDARD CARD READER TEST DECK PROGRAM
850660-11A00			DESCRIPTION PRINTED
850660-74A00			DATA CARDS
850661AA	B3	9-SERIES	9158 CARD PUNCH TEST PROGRAM
850661-11A00			DESCRIPTION PRINTED
850661-34A00			SOURCE CARDS
850661-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850662AA	B3	9-SERIES	900 SERIES FORTRAN II COMPILER DUMP
850662-11A00			DESCRIPTION PRINTED
850662-34A00			SOURCE CARDS
850662-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850663AA	B3	9-SERIES	BASIC SYMBOLIC MAGNETIC TAPE EDITOR
850663-11A00			DESCRIPTION PRINTED
850663-34A00			SOURCE CARDS
850663-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850663-84A00			ABSOLUTE BINARY CARDS
850664AA	B3	9-SERIES	PAPER TAPE AND MAGNETIC TAPE COPIER
850664-11A00			DESCRIPTION PRINTED
850664-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850666AA	B3	9-SERIES	MAG TAPE STANDARD FILL SIMULATOR(910/920
850666-11A00			DESCRIPTION PRINTED
850666-34A00			SOURCE CARDS
850666-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850667AA	B3	9-SERIES	BINARY INPUT-MAGNETIC TAPE ABSOLUTE LDR
850667-11A00			DESCRIPTION PRINTED
850667-34A00			SOURCE CARDS
850669AA	B3	9-SERIES	MONARCH - LIBPACK
850669-11A00			DESCRIPTION PRINTED
850669-25A00	850035-85		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
850669-25A00	850036-85		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
850669-25A00	850037-85		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
850669-25A00	850038-85		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
850669-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
850670AA	B3	9-SERIES	EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER
850670-11A00	900019		DESCRIPTION PRINTED
850670-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900019			910/920 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
850671AA	B3	9-SERIES	INSTRUCTION DIAGNOSTIC
850671-11A00	900019		DESCRIPTION PRINTED
850671-44A00			COMPRESSED CARDS
850671-82A00	850670-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900019			910/920 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
850672AA	B3	9-SERIES	MEMORY DIAGNOSTIC
850672-11A00	900019		DESCRIPTION PRINTED
850672-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900019			910/920 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
850673AA	B3	9-SERIES	15KC MAG TAPE TEST-INTERUPT AND INTRLACE
850673-11A00			DESCRIPTION PRINTED
850673-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850674AA	B3	9-SERIES	MAGNETIC TAPE SYSTEM EXERCISER-15KC
850674-11A00			DESCRIPTION PRINTED
850674-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850675AA	B3	9-SERIES	15KC MAGNETIC TAPE TEST
850675-11A00			DESCRIPTION PRINTED
850675-34A00			SOURCE CARDS
850675-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850675-84A00			ABSOLUTE BINARY CARDS
850676AA	B3	9-SERIES	MULTI-MAGNETIC TAPE SYSTEM EXERCISER
850676-11A00			DESCRIPTION PRINTED
850676-34A00			SOURCE CARDS
850676-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850676-84A00			ABSOLUTE BINARY CARDS
850677AA	B3	9-SERIES	92 PROCEDURE DECK
850677-11A00			DESCRIPTION PRINTED
850677-34A00			SOURCE CARDS
850678AA	B3	9-SERIES	DEMONSTRATION OF LINKING UNDER MONARCH
850678-11A00			DESCRIPTION PRINTED
850678-34A00			SOURCE CARDS

850679AA	B3	9-SERIES	MAGNETIC TP EXERCISER,2 TP SYTM-15KC
850679-11A00			DESCRIPTION PRINTED
850679-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850680AA	B3	9-SERIES	FORTRAN II RUN-TIME DEBUG SUBROUTINE
850680-11A00			DESCRIPTION PRINTED
850680-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850680-24A00			RELOCATABLE BINARY CARDS
850680-34A00			SOURCE CARDS
850681AA	B3	9-SERIES	42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER
850681-11A00			DESCRIPTION PRINTED
850681-34A00			SOURCE CARDS
850681-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850682AA	B3	900-SERIES	42KC MAG TAPE SYS EXERCISER, Y BUF
850682-11A00			DESCRIPTION PRINTED
850682-34A00			SOURCE CARDS
850682-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850683AA	B3	9-SERIES	BUFFERED LINE PRINTER MEMORY DUMP
850683-11A00			DESCRIPTION PRINTED
850683-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850684AA	B3	9-SERIES	CARD OR MAG TAPE TO BUFFERED LINE PRINTR
850684-11A00			DESCRIPTION PRINTED
850684-44A00			COMPRESSED CARDS
850684-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850686AA	B3	9-SERIES	FORTRAN FREE INTERRUPTS SUBROUTINE
850686-11A00			DESCRIPTION PRINTED
850686-24A00			RELOCATABLE BINARY CARDS
850686-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850687AA	B3	9-SERIES	SEQ. NUMBER ASONT.+P.T.UPDATING ROUTINES
850687-11A00			DESCRIPTION PRINTED
850687-34A00			SOURCE CARDS
850687-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850688AA	B3	9-SERIES	UTILITY AND DEBUG PACKAGE (AID)
850688-11A00			DESCRIPTION PRINTED
850688-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850688-44A00			COMPRESSED CARDS
850688-84A00			ABSOLUTE BINARY CARDS
850690AA	B3	900-SERIES	ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT.
850690-11A00			DESCRIPTION PRINTED
850690-24A00			RELOCATABLE BINARY CARDS
850690-34A00			SOURCE CARDS
850690-51A00	850690-11		LISTING PRINTED
850691AA	B3	9-SERIES	BUFFERED LINE PRINTER TEST PROGRAM
850691-11A00			DESCRIPTION PRINTED
850691-34A00			SOURCE CARDS
850691-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850691-84A00			ABSOLUTE BINARY CARDS
850692AA	B3	9-SERIES	OFF-LINE PRINTER TEST
850692-11A00			DESCRIPTION PRINTED
850692-34A00			SOURCE CARDS
850692-72A00			TEST PAPER TAPE

850693AA	B3	9-SERIES	BUFFERED PRINTER DIAGNOSTIC
850693-11A00			DESCRIPTION PRINTED
850693-44A00			COMPRESSED CARDS
850693-84A00			ABSOLUTE BINARY CARDS
850694AA	B3	9-SERIES	UNBUFFERED LINE PRINTER TEST
850694-11A00			DESCRIPTION PRINTED
850694-44A00			COMPRESSED CARDS
850694-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850695AA	B3	9-SERIES	42KC MAGNETIC TAPE TEST PROGRAM, W BUFFER
850695-11A00			DESCRIPTION PRINTED
850695-34A00			SOURCE CARDS
850695-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850695-84A00			ABSOLUTE BINARY CARDS
850696AA	B3	9-SERIES	42KC MAGNETIC TAPE EXERCISER, W BUFFER
850696-11A00			DESCRIPTION PRINTED
850696-34A00			SOURCE CARDS
850696-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850697AA	B3	9-SERIES	R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT
850697-11A00			DESCRIPTION PRINTED
850697-34A00			SOURCE CARDS
850697-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850698AA	B3	9-SERIES	XDS FORTRAN DEMONSTRATION PROGRAM
850698-11A00			DESCRIPTION PRINTED
850698-34A00			SOURCE CARDS
850699AA	B3	9-SERIES	CALCOMP PLOTTER TEST
850699-11A00			DESCRIPTION PRINTED
850699-34A00			SOURCE CARDS
850699-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850699-84A00			ABSOLUTE BINARY CARDS
850701AA	B3	9-SERIES	PROGRAM CORRECTION TAPE GENERATOR
850701-11A00			DESCRIPTION PRINTED
850701-34A00			SOURCE CARDS
850701-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850702AA	B3	9-SERIES	P + S REGISTER TESTER
850702-11A00			DESCRIPTION PRINTED
850702-34A00			SOURCE CARDS
850702-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900019			910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL
850703AA	B3	9-SERIES	910/920/925 DIAGNOSTIC CONTROL PROGRAM
850703-11A00			DESCRIPTION PRINTED
850703-44A00			COMPRESSED CARDS
850704AA	B3	9-SERIES	DRUM, P.T. MEMORY BINARY COPY ROUTINE
850704-11A00			DESCRIPTION PRINTED
850704-34A00			SOURCE CARDS
850704-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850705AA	B3	9-SERIES	GENERAL DRUM HANDLER
850705-11A00			DESCRIPTION PRINTED
850705-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850705-34A00			SOURCE CARDS

850706AA	B3	9-SERIES	MOSELEY PLOTTER TEST PROGRAM
850706-11A00			DESCRIPTION PRINTED
850706-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850707AA	B3	9-SERIES	LINK 0 BOOTSTRAP FOR DRUM
850707-11A00			DESCRIPTION PRINTED
850707-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850708AA	B3	9-SERIES	FORTRAN II TYPE SUBR. (LONG CARRIAGE)
850708-11A00			DESCRIPTION PRINTED
850708-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850708-34A00			SOURCE CARDS
850710AA	B3	9-SERIES	GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS
850710-11A00			DESCRIPTION PRINTED
850710-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850711AA	B3	9-SERIES	PRIORITY INTERRUPT TEST
850711-11A00			DESCRIPTION PRINTED
850711-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850711-84A00			ABSOLUTE BINARY CARDS
850712AA	B3	9-SERIES	UNBUFFERED LINE PRINTER TEST PROGRAM
850712-11A00			DESCRIPTION PRINTED
850712-34A00			SOURCE CARDS
850712-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850716AA	B3	9-SERIES	9161 DRUM MEMORY TEST PROGRAM
850716-11A00			DESCRIPTION PRINTED
850716-34A00			SOURCE CARDS
850716-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850717AA	B3	9-SERIES	1622 CARD READ/PUNCH TEST PROGRAM
850717-11A00			DESCRIPTION PRINTED
850717-34A00			SOURCE CARDS
850717-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850720AA	B3	9-SERIES	POWER FAIL-SAFE INTERRUPT TESTER
850720-11A00			DESCRIPTION PRINTED
850720-34A00			SOURCE CARDS
850720-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850721AA	B3	9-SERIES	ARM/DISARM FEATURE CHECKOUT
850721-11A00			DESCRIPTION PRINTED
850721-34A00			SOURCE CARDS
850721-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850721-84A00			ABSOLUTE BINARY CARDS
850722AA	B3	9-SERIES	FRANKLIN PRINTER TEST PROGRAM
850722-11A00			DESCRIPTION PRINTED
850722-34A00			SOURCE CARDS
850722-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850724AA	B3	9-SERIES	9158 CATHODE-RAY TUBE DISPLAY TEST PROG.
850724-11A00			DESCRIPTION PRINTED
850724-44A00			COMPRESSED CARDS
850724-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850724-84A00			ABSOLUTE BINARY CARDS

850725AA	B3	9-SERIES	RAD APOCALYPTIC DIAONOSTIC (RAD)
850725-11A00			DESCRIPTION PRINTED
850725-44A00			COMPRESSED CARDS
850725-51A00		850725-11	LISTING PRINTED
850725-84A00			ABSOLUTE BINARY CARDS
850726AA	B3	9-SERIES	MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST
850726-11A00			DESCRIPTION PRINTED
850726-44A00			COMPRESSED CARDS
850726-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850726-84A00			ABSOLUTE BINARY CARDS
850727AA	B3	9-SERIES	9185 CATHODE RAY TUBE DISPLAY UNIT/S RE1
850727-11A00			DESCRIPTION PRINTED
850727-44A00			COMPRESSED CARDS
850727-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850735AA	B3	9-SERIES	PRIORITY INTERRUPT SOURCE TEST
850735-11A00			DESCRIPTION PRINTED
850735-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850739AA	B3	9-SERIES	ANALOG COMPARISON TEST
850739-11A00			DESCRIPTION PRINTED
850739-34A00			SOURCE CARDS
850739-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850740AA	B3	920	SEISMIC DUMP A AND B FORMATS
850740-11A00			DESCRIPTION PRINTED
850740-24A00			RELOCATABLE BINARY CARDS
850740-44A00			COMPRESSED CARDS
850741AA	B3	930	PATCH, PROGRAMMED ANALOG TOTAL CHECK
850741-11A00			DESCRIPTION PRINTED
850741-24A00			RELOCATABLE BINARY CARDS
850741-44A00			COMPRESSED CARDS
850742AA	B3	930	DEE-6D SIMULATOR SYSTEM HANDLERS
850742-11A00			DESCRIPTION PRINTED
850742-34A00			SOURCE CARDS
850742-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850743AA	B3	910	JPL HSDL TEST PROGRAM
850743-11A00			DESCRIPTION PRINTED
850743-34A00			SOURCE CARDS
850743-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850744AB	B3	920	JPL HSDL COUPLER EXERCISER
850744-11A00			DESCRIPTION PRINTED
850744-44B00			COMPRESSED CARDS
850744-82B00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850754AB	B3	900-SERIES	ADAPT COMPILER
850754-11B00			DESCRIPTION PRINTED
850754-34B00			SOURCE CARDS
850754-35B00			SOURCE MAG TAPE, 7 CHANNELS
850755AA	B3	925	9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
850755-11A00			DESCRIPTION PRINTED
850755-44A00			COMPRESSED CARDS
850755-84A00			ABSOLUTE BINARY CARDS
850755-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850765AA	B3	910	910/925 PROGRAM OPERATOR PACKAGE (COVER)
850765-11A00			DESCRIPTION PRINTED
850765-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850765-35A00	850095-35		SOURCE MAG TAPE, 7 CHANNELS
900018			910/925 PROGRAMMED OPERATORS TECH MANUAL
850803AA	B3	9-SERIES	HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F
850803-11A00			DESCRIPTION PRINTED
850803-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850804AA	B3	9-SERIES	HIGH SPEED SIN-COS POP-SELF FILLING
850804-11A00			DESCRIPTION PRINTED
850804-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850805AA	B3	9-SERIES	HIGH SPEED ARCTANGENT POP-SELF FILLING
850805-11A00			DESCRIPTION PRINTED
850805-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850808AA	B3	9-SERIES	910/925 FORTRAN II SYSTEM (STAND ALONE)
850808-11A00			DESCRIPTION PRINTED
850808-35A00	850210-35		SOURCE MAG TAPE, 7 CHANNELS
850808-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900003			900 SERIES FORTRAN II REFERENCE MANUAL
900587			900 SERIES FORTRAN II OPERATIONS MANUAL
850812AA	B3	9-SERIES	910/925 FORTRAN II MOD. LOADER
850812-11A00			DESCRIPTION PRINTED
850512-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850813AA	B3	9-SERIES	910/925 FORTRAN II 3 CONTR CARDS MOD.
850813-11A00			DESCRIPTION PRINTED
850813-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850814AA	B3	9-SERIES	910/925 FORTRAN II 9 CONTR CARDS MOD.
850814-11A00			DESCRIPTION PRINTED
850514-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850815AA	B3	9-SERIES	910/925 F-II HOLLERITH CONSTANT MOD.
850815-11A00			DESCRIPTION PRINTED
850815-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850816AA	B3	9-SERIES	910/925 ALGOL 60 BASIC 4K SYSTEM
850816-11A00			DESCRIPTION PRINTED
850816-44A00			COMPRESSED CARDS
850816-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900699			XDS ALGOL 60 REFERENCE MANUAL
850830AA	B3	9-SERIES	910/925 R.T. FORTRAN II (S/A) SYSTEM
850830-11A00			DESCRIPTION PRINTED
850830-35A00	850400-35		SOURCE MAG TAPE, 7 CHANNELS
850830-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
901048			920/930 REAL TIME FORTRAN II TECHNICAL
900003			900 SERIES FORTRAN II REFERENCE MANUAL.
900587			900 SERIES FORTRAN II OPERATIONS MANUAL.
850831AA	B3	9-SERIES	XDS PINT 910-BUFFERED PRINT
850831-11A00	901023		DESCRIPTION PRINTED
850831-34A00			SOURCE CARDS
850831-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850831-84A00			ABSOLUTE BINARY CARDS
901023			XDS PINT REFERENCE MANUAL

850832AA	B3	9-SERIES	XDS 910 PINT-UNBUFFERED PRINT
850832-11A00		901023	DESCRIPTION PRINTED
850832-34A00			SOURCE CARDS
850832-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850832-84A00			ABSOLUTE BINARY CARDS
901023			XDS PINT REFERENCE MANUAL
850833AA	B3	9-SERIES	XDS 910/925 FORTRAN II FORMAT STATEMENTS
850833-11A00			DESCRIPTION PRINTED
850833-34A00			SOURCE CARDS
850833-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850835AA	B3	9-SERIES	910/925 FORTRAN II CARD INPUT MOD.
850835-11A00			DESCRIPTION PRINTED
850835-34A00			SOURCE CARDS
850835-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850836AA	B3	9-SERIES	910/925 FORTRAN II CARD PUNCH TAPE MOD.
850836-11A00			DESCRIPTION PRINTED
850836-34A00			SOURCE CARDS
850836-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850837AA	B3	9-SERIES	910/925 FORTRAN II CARD OUTPUT MOD.
850837-11A00			DESCRIPTION PRINTED
850837-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850841AA	B3	9-SERIES	910/925 FORTRAN II MAG TAPE OUTPUT MOD.
850841-11A00			DESCRIPTION PRINTED
850841-34A00			SOURCE CARDS
850841-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850842AA	B3	9-SERIES	910/925 F-II M.T. PAPER TAPE OUTPUT MOD
850842-11A00			DESCRIPTION PRINTED
850842-34A00			SOURCE CARDS
850842-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850848AA	B3	9-SERIES	910/925 SORT MERGE (COVER)
850848-11A00		901044	DESCRIPTION PRINTED
850848-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
850848-84A00			ABSOLUTE BINARY CARDS
900997			XDS SORT/MERGE REFERENCE MANUAL
901044			SORT/MERGE TECHNICAL MANUAL 9SERIES/9300 COMPUTERS
850857AA	B3	9-SERIES	910/925 FORTRAN II BUFFERED PRT. MOD.
850857-11A00			DESCRIPTION PRINTED
850857-34A00			SOURCE CARDS
850857-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850858AA	B3	9-SERIES	910/925 FORTRAN II FAST LISTING MOD.
850858-11A00			DESCRIPTION PRINTED
850858-34A00			SOURCE CARDS
850858-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850859AA	B3	9-SERIES	910/925 FORTRAN II UNBUFFERED PRTR.MOD.
850859-11A00			DESCRIPTION PRINTED
850859-34A00			SOURCE CARDS
850859-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850862AA	B3	9-SERIES	910 FORTRAN DRUM LINKING SYSTEM
850862-11A00			DESCRIPTION PRINTED
850862-34A00			SOURCE CARDS
850862-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850864AA	B3	9-SERIES	FORTRAN II DRUM READ/WRITE MODIFICATION
850864-11A00			DESCRIPTION PRINTED
850864-34A00			SOURCE CARDS
850864-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850901AA	B3	9-SERIES	910/925 STANDARD ANALOG TEST PROGRAM
850901-11A00			DESCRIPTION PRINTED
850901-44A00			COMPRESSED CARDS
850914AA	B3	9-SERIES	LINEAR INTERPOLATION-1 INDEPENDENT VARI
850914-11A00			DESCRIPTION PRINTED
850914-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850914-24A00			RELOCATABLE BINARY CARDS
850914-44A00			COMPRESSED CARDS
850915AA	B3	9-SERIES	LINEAR INTERPOLATION-2 INDEPENDENT VARI
850915-11A00			DESCRIPTION PRINTED
850915-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850915-24A00			RELOCATABLE BINARY CARDS
850915-44A00			COMPRESSED CARDS
850916AA	B3	9-SERIES	LINEAR INTERPOLATION-3 INDEPENDENT VARI
850916-11A00			DESCRIPTION PRINTED
850916-44A00			COMPRESSED CARDS
850916-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850919AA	B3	920	920/930 PROGRAMMED OPERATOR PACKAGE
850919-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
850919-35A00	850095-35		SOURCE MAG TAPE, 7 CHANNELS
900020			920/930 PROGRAMMED OPERATORS TECH MANUAL
850957AA	B3	9-SERIES	920/930 FORTRAN II SYSTEM (STAND ALONE)
850957-11A00			DESCRIPTION PRINTED
850957-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850957-84A00			ABSOLUTE BINARY CARDS
850957-35A00	850315-35		SOURCE MAG TAPE, 7 CHANNELS
900587			900 SERIES FORTRAN II OPERATIONS MANUAL
900003			900 SERIES FORTRAN II REFERENCE MANUAL
850963AA	B3	9-SERIES	FORTRAN II FORMATS-AT RUN-TIME MOD.
850963-11A00			DESCRIPTION PRINTED
850963-34A00			SOURCE CARDS
850963-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850964AA	B3	9-SERIES	FORTRAN-9 CONTINUATION CARD MODIFICATION
850964-11A00			DESCRIPTION PRINTED
850964-34A00			SOURCE CARDS
850964-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850965AA	B3	9-SERIES	FORTRAN II MODIFICATION LOADER
850965-11A00			DESCRIPTION PRINTED
850965-34A00			SOURCE CARDS
850965-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850966AA	B3	9-SERIES	FORTRAN-3 CONTINUATION CARD MODIFICATION
850966-11A00			DESCRIPTION PRINTED
850966-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850967AA	B3	9-SERIES	FORTRAN HOLLERITH LITERALS MODIFICATION
850967-11A00			DESCRIPTION PRINTED
850967-34A00			SOURCE CARDS
850967-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

850968AA	B3	9-SERIES	00 MO KU
850968-11A00			DESCRIPTION PRINTED
850968-34A00			SOURCE CARDS
850968-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850970AA	B3	9-SERIES	920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)
850970-11A00		900699	DESCRIPTION PRINTED
850970-44A00			COMPRESSED CARDS
850970-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900699			ALGOL 60 REFERENCE MANUAL
900694			ALGOL 60 TECHNICAL MANUAL, XDS 900 SERIES/9300 COMPUTERS
850984AA	B3	9-SERIES	920/930 REAL TIME FORTRAN II (COVER)
850984-11A00			DESCRIPTION PRINTED
850984-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
901048			920/930 REAL TIME FORTRAN II TECH MANUAL
900003			900 SERIES FORTRAN II REFERENCE MANUAL
900587			900 SERIES FORTRAN II OPERATIONS MANUAL
850985AA	B3	9-SERIES	PINT 920/930 BUFFERED PRINT
850985-34A00			SOURCE CARDS
850985-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850985-84A00			ABSOLUTE BINARY CARDS
901023			PINT REFERENCE MANUAL
850986AA	B3	9-SERIES	PINT 920/930 UNBUFFERED PRINT
850986-34A00			SOURCE CARDS
850986-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850986-84A00			ABSOLUTE BINARY CARDS
901023			PINT REFERENCE MANUAL
850989AA	B3	9-SERIES	920/930 FORT II CARD/PAPER TAPE INPT MOD
850989-11A00			DESCRIPTION PRINTED
850989-34A00			SOURCE CARDS
850989-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850990AA	B3	9-SERIES	920/930 FORTRAN II CARD INPUT MOD.
850990-11A00			DESCRIPTION PRINTED
850990-34A00			SOURCE CARDS
850990-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850991AA	B3	9-SERIES	920/930 FORTRAN II CARD OUTPUT MOD.
850991-11A00			DESCRIPTION PRINTED
850991-34A00			SOURCE CARDS
850991-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850992AA	B3	9-SERIES	920/930 FORTRAN II MAG TAPE INPUT MOD.
850992-11A00			DESCRIPTION PRINTED
850992-34A00			SOURCE CARDS
850992-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850992-84A00			ABSOLUTE BINARY CARDS
850997AA	B3	9-SERIES	920/930 FORT II MAG TPE/PAPER TPE OUTPUT
850997-11A00			DESCRIPTION PRINTED
850997-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
850998AA	B3	9-SERIES	920/930 FORTRAN II MAG TAPE OUTPUT MOD.
850998-11A00			DESCRIPTION PRINTED
850998-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

851006AA	B3	9-SERIES	920/930 SORT MERGE (COVER)
851006-11A00	901044		DESCRIPTION PRINTED
851006-45A00	850848-45		COMPRESSED MAG TAPE, 7 CHANNELS
851006-84A00	850848-84		ABSOLUTE BINARY CARDS
900997			SORT/MERGE REFERENCE MANUAL
901044			SORT/MERGE TECHNICAL MANUAL
851010AA	B3	9-SERIES	PAYROLL GENERATOR
851010-11A00			DESCRIPTION PRINTED
851010-45A00	851220-45		COMPRESSED MAG TAPE, 7 CHANNELS
851012AA	B3	9-SERIES	BUFFERED LINE PRINTER TRACE
851012-11A00			DESCRIPTION PRINTED
851012-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851012-34A00	850000-35		SOURCE CARDS
851012-44A00			COMPRESSED CARDS
851014AA	B3	9-SERIES	920/930 RTF II INBUF. PRT. COMPILER MOD
851014-11A00			DESCRIPTION PRINTED
851014-34A00			SOURCE CARDS
851014-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851015AA	B3	9-SERIES	FORTRAN BUFFERED PRINTER MODIFICATION
851015-11A00			DESCRIPTION PRINTED
851015-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851017AA	B3	9-SERIES	920/930 FORTRAN II COMPILER UNBUF. PRT.
851017-11A00			DESCRIPTION PRINTED
851017-34A00			SOURCE CARDS
851017-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851019AA	B3	9-SERIES	92 SIMULATOR
851019-44A00			COMPRESSED CARDS
851019-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851026AA	B3	9-SERIES	FORTRAN DRUM READ/WRITE STATEMENTS
851026-11A00			DESCRIPTION PRINTED
851026-34A00			SOURCE CARDS
851026-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851027AA	B3	920	JPL TCP ANALOG EQUIPMENT DEMONSTRATION
851027-11A00			DESCRIPTION PRINTED
851027-44A00			COMPRESSED CARDS
851027-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851047AA	B3	9-SERIES	DOUBLE PRECISION FLOATING POINT POP
851047-11A00			DESCRIPTION PRINTED
851047-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851047-24A00			RELOCATABLE BINARY CARDS
851047-34A00			SOURCE CARDS
851048AA	B3	9-SERIES	930 EXAMINER DIAGNOSTIC SYSTEM (COVER)
851048-11A00	900097		DESCRIPTION PRINTED
851048-34A00			SOURCE CARDS
851048-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851048-84A00			ABSOLUTE BINARY CARDS
900097			XDS 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. I + II
851049AA	B3	9-SERIES	930 EXAMINER MEMORY DIAGNOSTIC
851049-11A00	900097		DESCRIPTION PRINTED
851049-82A00	851048-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851049-84A00	851048-84		ABSOLUTE BINARY CARDS
900097			XDS 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. I + II

851050AA	B3	9-SERIES	930 EXAMINER INSTRUCTION DIAGNOSTIC
851050-11A00	900097		DESCRIPTION PRINTED
851050-82A00	851048-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851050-84A00	851048-84		ABSOLUTE BINARY CARDS
900097			XDS 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. 1 + II
851051AA	B3	9-SERIES	930 EXAMINER P AND S REGISTER TESTER
851051-11A00	900097		DESCRIPTION PRINTED
851051-82A00	851048-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851051-84A00	851048-84		ABSOLUTE BINARY CARDS
900097			XDS 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. 1 + II
851052AA	B3	9-SERIES	930 BIO MEMORY ADDRESSING TEST
851052-11A00			DESCRIPTION PRINTED
851052-34A00			SOURCE CARDS
851052-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851054AA	B3	9-SERIES	MTE-1 MAGNETIC TAPE EXERCISER
851054-11A00			DESCRIPTION PRINTED
851054-24A00			RELOCATABLE BINARY CARDS
851054-44A00			COMPRESSED CARDS
851054-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851055AA	B3	9-SERIES	MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE
851055-11A00			DESCRIPTION PRINTED
851055-44A00			COMPRESSED CARDS
851055-51A00	851055-11		LISTING PRINTED
851055-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851056AA	B3	9-SERIES	MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE
851056-11A00			DESCRIPTION PRINTED
851056-44A00			COMPRESSED CARDS
851056-51A00	851056-11		LISTING PRINTED
851056-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851057AA	B3	9-SERIES	MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
851057-11A00			DESCRIPTION PRINTED
851057-44A00			COMPRESSED CARDS
851057-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851058AA	B3	9-SERIES	930 CFE-1 DIAGNOSTIC
851058-11A00			DESCRIPTION PRINTED
851058-44A00			COMPRESSED CARDS
851058-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851060AA	B3	9-SERIES	REAL TIME CLOCK TEST ROUTINE
851060-11A00			DESCRIPTION PRINTED
851060-44A00			COMPRESSED CARDS
851060-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851060-84A00			ABSOLUTE BINARY CARDS
851062AA	B3	930	9165 DISC EXERCISER DIAGNOSTIC
851062-11A00			DESCRIPTION PRINTED
851062-44A00			COMPRESSED CARDS
851062-51A00	851062-11		LISTING PRINTED
851062-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851063AA	B3	930	930 RAD DIAGNOSTIC FOR 9367 RAD
851063-11A00			DESCRIPTION PRINTED
851063-44A00			COMPRESSED CARDS
851063-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
901029			9367 RAD TECHNICAL MANUAL

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

851064AA	B3	930	HYBRID EXEC. LIB. FOR AEROSPACE CORP.
851064-11A00			DESCRIPTION PRINTED
851064-44A00			COMPRESSED CARDS
851064-24A00			RELOCATABLE BINARY CARDS
851100AA	B3	9-SERIES	925 EXAMINER DIAGNOSTIC SYSTEM (COVER)
851100-11A00		900649	DESCRIPTION PRINTED
851100-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851100-84A00			ABSOLUTE BINARY CARDS
900649			XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA
851101AA	B3	9-SERIES	925 MEMORY DIAGNOSTIC
851101-11A00		900649	DESCRIPTION PRINTED
851101-34A00			SOURCE CARDS
851101-82A00		851100-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851101-84A00		851100-84	ABSOLUTE BINARY CARDS
900649			XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA
851102AA	B3	9-SERIES	925 INSTRUCTION DIAGNOSTIC
851102-11A00		900649	DESCRIPTION PRINTED
851102-34A00			SOURCE CARDS
851102-82A00		851100-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851102-84A00		851100-84	ABSOLUTE BINARY CARDS
900649			XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA
851103AA	B3	9-SERIES	925 P-AND-S REGISTER TESTER
851103-11A00		900649	DESCRIPTION PRINTED
851103-34A00			SOURCE CARDS
851103-82A00		851100-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851103-84A00		851100-84	ABSOLUTE BINARY CARDS
900649			XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUA
851104AA	B3	9-SERIES	925 CFE-1 DIAGNOSTIC
851104-11A00			DESCRIPTION PRINTED
851104-44A00			COMPRESSED CARDS
851104-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851104-84A00			ABSOLUTE BINARY CARDS
851106AA	B3	9-SERIES	PAPER TAPE - TYPEWRITER HANDLER 925/930
851106-11B00			DESCRIPTION PRINTED
851106-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851106-24A00			RELOCATABLE BINARY CARDS
851106-44A00			COMPRESSED CARDS
851107AA	B3	9-SERIES	EXTENDED MODE I/O TEST PROGRAM
851107-11A00			DESCRIPTION PRINTED
851107-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851107-44A00			COMPRESSED CARDS
851107-84A00			ABSOLUTE BINARY CARDS
851108AA	B3	9-SERIES	925/930 CARD PUNCH AND VERIFY PROGRAM
851108-11A00			DESCRIPTION PRINTED
851108-34A00			SOURCE CARDS
851108-84A00			ABSOLUTE BINARY CARDS
851109AA	B3	9-SERIES	CARD READ SUBROUTINE (CDR)
851109-11A00			DESCRIPTION PRINTED
851109-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851109-34A00		850095-35	SOURCE CARDS
851110AA	B3	9-SERIES	925/930 CARD READER TEST PROGRAM
851110-11A00			DESCRIPTION PRINTED
851110-44A00			COMPRESSED CARDS
851110-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851110-84A00			ABSOLUTE BINARY CARDS

851111AA	B3	9-SERIES	9158 CARD PUNCH TEST PROGRAM
851111-11A00			DESCRIPTION PRINTED
851111-34A00			SOURCE CARDS
851111-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851111-84A00			ABSOLUTE BINARY CARDS
851112AA	B3	9-SERIES	MAGNETIC TAPE HANDLER (EXTENDED MODE)
851112-11A00			DESCRIPTION PRINTED
851112-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851112-24A00			RELOCATABLE BINARY CARDS
851112-44A00			COMPRESSED CARDS
851113AA	B3	9-SERIES	EXTENDED MODE MULTI-MAGNETIC TAPE EXER.
851113-11A00			DESCRIPTION PRINTED
851113-44A00			COMPRESSED CARDS
851113-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851113-84A00			ABSOLUTE BINARY CARDS
851114AA	B3	9-SERIES	MAGNETIC TAPE TEST PROGRAM FOR 925/930
851114-11A00			DESCRIPTION PRINTED
851114-44A00			COMPRESSED CARDS
851114-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851114-84A00			ABSOLUTE BINARY CARDS
851115AA	B3	9-SERIES	DATA MULTIPLEX CHANNEL TEST 925/930
851115-11A00			DESCRIPTION PRINTED
851115-44A00			COMPRESSED CARDS
851115-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851115-84A00			ABSOLUTE BINARY CARDS
851116AA	B3	9-SERIES	DSC-I DIAGNOSTIC TEST
851116-11A00			DESCRIPTION PRINTED
851116-44A00			COMPRESSED CARDS
851116-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851116-84A00			ABSOLUTE BINARY CARDS
851117AA	B3	9-SERIES	DSC-II DIAGNOSTIC TEST
851117-11A00			DESCRIPTION PRINTED
851117-44A00			COMPRESSED CARDS
851117-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851118AA	B3	9-SERIES	DACC DIAGNOSTIC TEST WITH JX35 TESTER925
851118-11A00			DESCRIPTION PRINTED
851118-44A00			COMPRESSED CARDS
851118-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851118-84A00			ABSOLUTE BINARY CARDS
851119AA	B3	9-SERIES	TMCC DIAGNOSTIC TEST FOR 925/930
851119-11A00			DESCRIPTION PRINTED
851119-44A00			COMPRESSED CARDS
851119-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851119-84A00			ABSOLUTE BINARY CARDS
851121AA	B3	925	925/930 LINE PRINTER SUBROUTINE (PRINT)
851121-11A00			DESCRIPTION PRINTED
851121-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851121-24A00			RELOCATABLE BINARY CARDS
851121-44A00			COMPRESSED CARDS
851122AA	B3	9-SERIES	9174/9179 PRINTER DIAGNOSTIC 925/930
851122-11A00			DESCRIPTION PRINTED
851122-44A00			COMPRESSED CARDS
851122-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851122-84A00			ABSOLUTE BINARY CARDS

851123AA	B3	9-SERIES	9379 PRINTER DIAGNOSTIC 925/930
851123-11A00			DESCRIPTION PRINTED
851123-44A00			COMPRESSED CARDS
851123-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851123-84A00			ABSOLUTE BINARY CARDS
851124AA	B3	9-SERIES	9372 UNBUFFERED LINE PRINTER TEST 925/93
851124-11A00			DESCRIPTION PRINTED
851124-44A00			COMPRESSED CARDS
851124-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851124-84A00			ABSOLUTE BINARY CARDS
851127AA	B3	9-SERIES	DISC FILE TEST PROGRAM
851127-11A00			DESCRIPTION PRINTED
851127-44A00			COMPRESSED CARDS
851127-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851127-84A00			ABSOLUTE BINARY CARDS
851128AA	B3	9-SERIES	DISC FILE DIAGNOSTIC (DFD) 925/930
851128-11A00			DESCRIPTION PRINTED
851128-44A00			COMPRESSED CARDS
851128-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851128-84A00			ABSOLUTE BINARY CARDS
851129AC	B3	9-SERIES	RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930
851129-11C00			DESCRIPTION PRINTED
851129-44C00	860767-44		COMPRESSED CARDS
851129-82C00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851130AA	B3	9-SERIES	TEST PROGRAM DISC FILE MODEL 9367-A 925/
851130-11A00			DESCRIPTION PRINTED
851130-44A00			COMPRESSED CARDS
851130-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851131AA	B3	900-SERIES	SNAPSHOT SUBROUTINE
851131-11A00			DESCRIPTION PRINTED
851131-24A00			RELOCATABLE BINARY CARDS
851131-44A00			COMPRESSED CARDS
851134AA	B3	925	9 TRACK MAGNETIC TAPE TEST PROGRAM
851134-11A00			DESCRIPTION PRINTED
851134-44A00			COMPRESSED CARDS
851134-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851134-84A00			ABSOLUTE BINARY CARDS
851135AA	B3	900-SERIES	SEMI AUTO TYPEWRITER TEST
851135-11A00			DESCRIPTION PRINTED
851135-34A00			SOURCE CARDS
851135-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851136AA	B3	930	DEE-6D SIMULATOR SYSTEM DIAGNOSTIC
851136-11A00			DESCRIPTION PRINTED
851136-44A00			COMPRESSED CARDS
851136-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851137AA	B3	910	JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM
851137-11A00			DESCRIPTION PRINTED
851137-44A00			COMPRESSED CARDS
851137-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851143AA	B3	900-SERIES	UTILITY PACKAGE
851143-11A00			DESCRIPTION PRINTED
851143-24A00			RELOCATABLE BINARY CARDS
851143-44A00			COMPRESSED CARDS

851144AA	B3	900-SERIES	LIST TAPE ROUTINE
851144-11A00			DESCRIPTION PRINTED
851144-44A00			COMPRESSED CARDS
851144-84A00			ABSOLUTE BINARY CARDS
851145AA	B3	910	15 KC MAGNETIC TAPE EXERCISER
851145-11A00			DESCRIPTION PRINTED
851145-34A00			SOURCE CARDS
851145-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851149AA	B3	92	LN-FLOATING-POINT NATURAL LOGARITHM
851149-11A00			DESCRIPTION PRINTED
851149-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851149-34A00			SOURCE CARDS
851150AA	B3	92	SIN/COS-FLOATING-POINT SINE-COSINE SUBR.
851150-11A00			DESCRIPTION PRINTED
851150-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851150-34A00			SOURCE CARDS
851151AA	B3	92	ATAN-FLOATING-POINT ARCTANGENT SUBR.
851151-11A00			DESCRIPTION PRINTED
851151-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851151-24A00			RELOCATABLE BINARY CARDS
851151-34A00			SOURCE CARDS
851152AA	B3	92	INTERRUPT-INTERLACE I/O TEST PROGRAM
851152-11A00			DESCRIPTION PRINTED
851152-44A00			COMPRESSED CARDS
851152-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851153AA	B3	92	EXAMINER DIAGNOSTIC SYSTEM (COVER)
851153-11A00		900878	DESCRIPTION PRINTED
851153-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900878			XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
851154AA	B3	92	DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)
851154-11A00		900878	DESCRIPTION PRINTED
851154-44A00			COMPRESSED CARDS
851154-82A00		851153-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900878			XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
851155AA	B3	92	2-4K MEMORY DIAGNOSTIC
851155-11A00		900878	DESCRIPTION PRINTED
851155-44A00			COMPRESSED CARDS
851155-82A00		851153-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900878			XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
851156AA	B3	92	8-16-32K MEMORY DIAGNOSTIC
851156-11A00		900878	DESCRIPTION PRINTED
851156-44A00			COMPRESSED CARDS
851156-82A00		851153-82	ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900878			XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
851157AA	B3	92	92 TYPEWRITER TEST
851157-11A00			DESCRIPTION PRINTED
851157-34A00			SOURCE CARDS
851157-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851158AA	B3	92	92 SYMBOL
851158-11A00			DESCRIPTION PRINTED
851158-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
900508			XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL.

851159AA	83 92	PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO)
851159-11A00		DESCRIPTION PRINTED
851159-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851159-34A00		SOURCE CARDS
851160AA	83 92	BINARY PAPER TAPE RELOCATING BOOTSTRAP
851160-11A00		DESCRIPTION PRINTED
851160-34A00		SOURCE CARDS
851160-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851161AA	83 92	BINARY PAPER TAPE BOOTSTRAP LOADER
851161-11A00		DESCRIPTION PRINTED
851161-34A00		SOURCE CARDS
851161-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851162AA	83 92	UNIVERSAL BINARY LOADER (QUBLDR)
851162-11A00		DESCRIPTION PRINTED
851162-34A00		SOURCE CARDS
851162-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851163AA	83 92	BINARY PAPER TAPE RELOCATING UPPER LOADE
851163-11A00		DESCRIPTION PRINTED
851163-34A00		SOURCE CARDS
851163-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851166AA	83 92	PAPER TAPE READER TEST
851166-11A00		DESCRIPTION PRINTED
851166-44A00		COMPRESSED CARDS
851166-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851167AA	83 92	CARD READ HANDLER (CDR)
851167-11A00		DESCRIPTION PRINTED
851167-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851167-34A00		SOURCE CARDS
851168AA	83 92	CARD READER TEST PROGRAM
851168-11A00		DESCRIPTION PRINTED
851168-34A00		SOURCE CARDS
851168-74A00	850660-74	TEST DECK
851168-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851169AA	83 92	MAGNETIC TAPE SUBROUTINE (MTAPE)
851169-11A00		DESCRIPTION PRINTED
851169-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851169-24A00		RELOCATABLE BINARY CARDS
851169-34A00		SOURCE CARDS
851170AA	83 92	MAGNETIC TAPE TEST PROGRAM
851170-11A00		DESCRIPTION PRINTED
851170-34A00		SOURCE CARDS
851170-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851171AA	83 92	MULTI-MAGNETIC TAPE EXERCISER
851171-11A00		DESCRIPTION PRINTED
851171-34A00		SOURCE CARDS
851171-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851173AA	83 92	DSC-I DIAGNOSTIC TEST FOR XDS 92
851173-11A00		DESCRIPTION PRINTED
851173-34A00		SOURCE CARDS
851173-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

851174AA	B3 92	DSC-II DIAGNOSTIC TEST FOR XDS 92
851174-11A00		DESCRIPTION PRINTED
851174-34A00		SOURCE CARDS
851174-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851175AA	B3 92	INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92
851175-11A00		DESCRIPTION PRINTED
851175-34A00		SOURCE CARDS
851175-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851176AA	B3 92	MEMORY TO LINE PRINTER OCTAL DUMP
851176-11A00		DESCRIPTION PRINTED
851176-44A00		COMPRESSED CARDS
851176-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851176-84A00		ABSOLUTE BINARY CARDS
851177AA	B3 92	LINE PRINTER SUBROUTINE (PRINT)
851177-11A00		DESCRIPTION PRINTED
851177-24A00		RELOCATABLE BINARY CARDS
851177-34A00		SOURCE CARDS
851177-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851178AA	B3 92	MOD. 9372 UNBUF. LINE PRINTER.SUBR.(PRIN
851178-11A00		DESCRIPTION PRINTED
851178-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851178-34A00		SOURCE CARDS
851179AA	B3 92	MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC
851179-11A00		DESCRIPTION PRINTED
851179-34A00		SOURCE CARDS
851179-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851180AA	B3 92	BUFFERED LINE PRT. DIAGNOSTIC 9379/9171
851180-11A00		DESCRIPTION PRINTED
851180-34A00		SOURCE CARDS
851181AA	B3 92	MTE-2 MAGNETIC TAPE EXERCISER
851181-11A00		DESCRIPTION PRINTED
851181-44A00		COMPRESSED CARDS
851181-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851181-84A00		ABSOLUTE BINARY CARDS
851182AA	B3 92	SCOPE TEST PROGRAM
851182-11A00		DESCRIPTION PRINTED
851182-34A00		SOURCE CARDS
851182-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851184AA	B3 92	92 RAD ANALYTIC DIAGNOSTIC
851184-11A00		DESCRIPTION PRINTED
851184-34A00		SOURCE CARDS
851184-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851185AA	B3 92	TEST PROGRAM FOR DISC FILE 9387-A
851185-11A00		DESCRIPTION PRINTED
851185-34A00		SOURCE CARDS
851185-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851186AA	B3 92	POWER FAIL-SAFE TEST
851186-11A00		DESCRIPTION PRINTED
851186-34A00		SOURCE CARDS
851186-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS

851187AA	B3	92	REAL TIME CLOCK TEST
851187-11A00			DESCRIPTION PRINTED
851187-34A00			SOURCE CARDS
851187-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851187-84A00			ABSOLUTE BINARY CARDS
851188AA	B3	92	92 BASIC UTILITY PACKAGE
851188-11A00			DESCRIPTION PRINTED
851188-34A00			SOURCE CARDS
851188-84A00			ABSOLUTE BINARY CARDS
851220AA	B3	900-SERIES	MANAGE SYSTEM (COVER)
851220-11A00			DESCRIPTION PRINTED
851220-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
851220-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
901046			XDS MANAGE REFERENCE MANUAL
851257AB	B3	900-SERIES	925/930 RTM STAND-ALONE UPDATE
851257-11800			DESCRIPTION PRINTED
851257-45800	851500-45		COMPRESSED MAG TAPE, 7 CHANNELS
851257-84800			ABSOLUTE BINARY CARDS
851258AA	B3	910	910/925 MONARCH FOR UNBUFFERED PRINTER
851258-11A00			DESCRIPTION PRINTED
851258-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
851259AA	B3	920	920/930 MONARCH FOR UNBUFFERED PRINTER
851259-11A00			DESCRIPTION PRINTED
851259-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
851260AA	B3	925	925 RAD MONARCH FOR UNBUFFERED PRINTER
851260-11A00			DESCRIPTION PRINTED
851260-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
851261AA	B3	930	930 RAD MONARCH FOR UNBUFFERED PRINTER
851261-11A00			DESCRIPTION PRINTED
851261-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
851290AA	B3	9-SERIES	MONARCH MPRNT (UNBUF)
851290-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
851291AA	B3	9-SERIES	MONARCH PRINT (UNBUF)
851291-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851291-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
851291-44A00			COMPRESSED CARDS
851292AA	B3	9-SERIES	MONARCH CORP
851292-11A00			DESCRIPTION PRINTED
851292-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851292-24A00			RELOCATABLE BINARY CARDS
851292-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
851293AA	B3	9-SERIES	MONARCH PTYIO
851293-11A00			DESCRIPTION PRINTED
851293-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851293-24A00			RELOCATABLE BINARY CARDS
851293-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
851294AA	B3	9-SERIES	MONARCH MTAPE
851294-11A00			DESCRIPTION PRINTED
851294-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851294-24A00			RELOCATABLE BINARY CARDS
851294-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS

851295AA	B3	9-SERIES	MONARCH PRINT
851295-11A00			DESCRIPTION PRINTED
851295-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851295-35A00	850000-35		SOURCE MAG TAPE, 7 CHANNELS
851299AA	B3	930	EXT.I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)
851299-11A00			DESCRIPTION PRINTED
851299-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851299-34A00			SOURCE CARDS
851300AC	B3	900-SERIES	925/930 FORTRAN IV LIBRARY
851300-11B01			DESCRIPTION PRINTED
851300-25B00	851500-25		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
851300-45B00			COMPRESSED MAG TAPE, 7 CHANNELS
851300-64B01			UPDATE ON CARDS
851500AC	B3	900-SERIES	925/930 REAL-TIME MONITOR
851500-11D00			DESCRIPTION PRINTED
851500-25D00			RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
851500-45D00			COMPRESSED MAG TAPE, 7 CHANNELS
851500-74D00			TEST DECK
851579AA	B3	930	ARRAYS PROGRAM FOR NAVAL TORPEDO STATION
851579-11A00			DESCRIPTION PRINTED
851579-44A00			COMPRESSED CARDS
851579-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851580AA	B3	930	INTER-COMPUTER COUPLER TEST
851580-11A00			DESCRIPTION PRINTED
851580-34A00			SOURCE CARDS
851580-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851580-84A00			ABSOLUTE BINARY CARDS
851583AA	B3	900-SERIES	900 SERIES FORTRAN IV COMPILER
851583-11A00	851500-11		DESCRIPTION PRINTED
851583-25A00			RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
851583-35A00			SOURCE MAG TAPE, 7 CHANNELS
851583-55A00			LISTING MAG TAPE, 7 CHANNELS
851584AA	B3	9-SERIES	ACCEPTANCE PROG. FOR DATA COMMUNICATION
851584-11A00			DESCRIPTION PRINTED
851584-44A00			COMPRESSED CARDS
851584-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851585AA	B3	9-SERIES	COMMUNICATION BUFFER CHECKOUT PROGRAM
851585-11A00			DESCRIPTION PRINTED
851585-44A00			COMPRESSED CARDS
851585-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851586AA	B3	92	FLN -FLOATING NEGATE SUBROUTINE
851586-11A00			DESCRIPTION PRINTED
851586-34A00			SOURCE CARDS
851586-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851587AA	B3	92	FLOAT -FIXED TO FLOATING SUBROUTINE
851587-11A00			DESCRIPTION PRINTED
851587-34A00			SOURCE CARDS
851587-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851587-84A00			ABSOLUTE BINARY CARDS

851588AA	B3 92	FIX -FLOATING TO A FIXED SUBROUTINE
851588-11A00		DESCRIPTION PRINTED
851588-34A00		SOURCE CARDS
851588-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851588-84A00		ABSOLUTE BINARY CARDS
851589AA	B3 92	DVASIM -SIMULATED DVA INSTRUCTION
851589-11A00		DESCRIPTION PRINTED
851589-34A00		SOURCE CARDS
851589-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851589-84A00		ABSOLUTE BINARY CARDS
851590AA	B3 92	DVBSIM -SIMULATED DVB INSTRUCTION
851590-11A00		DESCRIPTION PRINTED
851590-34A00		SOURCE CARDS
851590-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851590-84A00		ABSOLUTE BINARY CARDS
851591AA	B3 92	MUASIM -SIMULATED MUA INSTRUCTION
851591-11A00		DESCRIPTION PRINTED
851591-34A00		SOURCE CARDS
851591-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851591-84A00		ABSOLUTE BINARY CARDS
851592AA	B3 92	MUBSIM -SIMULATED MUB INSTRUCTION
851592-11A00		DESCRIPTION PRINTED
851592-34A00		SOURCE CARDS
851592-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851592-84A00		ABSOLUTE BINARY CARDS
851593AA	B3 92	NORMZ -FLOATING NORMALIZE SUBROUTINE
851593-11A00		DESCRIPTION PRINTED
851593-34A00		SOURCE CARDS
851593-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851593-84A00		ABSOLUTE BINARY CARDS
851594AA	B3 92	SQRT -FLOATING-POINT SQUARE ROOT SUBRT.
851594-11A00		DESCRIPTION PRINTED
851594-34A00		SOURCE CARDS
851594-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851594-84A00		ABSOLUTE BINARY CARDS
851595AA	B3 92	EFFADR -EFFECTIVE ADDRESS ROUTINE
851595-11A00		DESCRIPTION PRINTED
851595-34A00		SOURCE CARDS
851595-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851595-84A00		ABSOLUTE BINARY CARDS
851596AA	B3 92	EXP -FLOATING POINT EXPONENTIAL
851596-11A00		DESCRIPTION PRINTED
851596-34A00		SOURCE CARDS
851596-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851596-84A00		ABSOLUTE BINARY CARDS
851597AA	B3 92	FLOATING POINT ARITHMETIC PK06, FLPT82
851597-11A00		DESCRIPTION PRINTED
851597-34A00		SOURCE CARDS
851597-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851597-84A00		ABSOLUTE BINARY CARDS
851598AA	B3 900-SERIES	910 SYMBOL 4
851598-11A00		DESCRIPTION PRINTED
851598-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851598-34A00		SOURCE CARDS
900688-		XDS 900 SERIES SYMBOL TECHNICAL MANUAL

851599AA	B3	900-SERIES	910 SYMBOL 4 BUF. LINE PRINTER MOD.
851599-11A00			DESCRIPTION PRINTED
851599-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851600AA	B3	900-SERIES	910 SYMBOL 4 UNBUF. LINE PRINTER MOD
851600-11A00			DESCRIPTION PRINTED
851600-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851601AA	B3	900-SERIES	910 SYMBOL 4 TABLE PRINTER
851601-11A00			DESCRIPTION PRINTED
851601-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851601-34A00			SOURCE CARDS
851602AA	B3	900-SERIES	910/920 SYMBOL 4
851602-11A00			DESCRIPTION PRINTED
851602-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
900688			XDS 900 SERIES SYMBOL TECHNICAL MANUAL
851603AA	B3	900-SERIES	910/920 SYMBOL 4 UNBUF. PRINTER MOD
851603-11A00			DESCRIPTION PRINTED
851603-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851604AA	B3	900-SERIES	920 SYMBOL 4
851604-11A00			DESCRIPTION PRINTED
851604-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851604-34A00			SOURCE CARDS
900688			XDS 900 SERIES SYMBOL TECHNICAL MANUAL
851605AA	B3	900-SERIES	920 SYMBOL 4 BUF. LINE PRINTER MOD
851605-11A00			DESCRIPTION PRINTED
851605-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851605-34A00			SOURCE CARDS
851606AA	B3	900-SERIES	920 SYMBOL 4 UNBUF. LINE PRINTER MOD
851606-11A00			DESCRIPTION PRINTED
851606-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851606-34A00			SOURCE CARDS
851607AA	B3	900-SERIES	920 SYMBOL 4 TABLE PRINTER
851607-11A00			DESCRIPTION PRINTED
851607-34A00			SOURCE CARDS
851607-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851608AA	B3	900-SERIES	920/910 SYMBOL 4
851608-11A00			DESCRIPTION PRINTED
851608-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
900688-			XDS 900 SERIES SYMBOL TECHNICAL MANUAL
851609AA	B3	900-SERIES	920/910 SYMBOL 4 BUF. LINE PRINTER MOD
851609-11A00			DESCRIPTION PRINTED
851609-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851610AA	B3	900-SERIES	920/910 SYMBOL 4 UNBUF. PRINTER MOD
851610-11A00			DESCRIPTION PRINTED
851610-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851610-34A00			SOURCE CARDS
851611AA	B3	900-SERIES	920/930 SYMBOL 8 BUF. PRINTER VERSION
851611-11A00			DESCRIPTION PRINTED
851611-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
900688-			XDS 900 SERIES SYMBOL TECHNICAL MANUAL

851612AA	B3	900-SERIES	920/930 SYMBOL 8 UNBUF. PRINTER VERSION
851612-11A00			DESCRIPTION PRINTED
851612-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
851612-34A00			SOURCE CARDS
900688-			XDS 900 SERIES SYMBOL TECHNICAL MANUAL
851613AA	B3	9-SERIES	1-CARD DUMP PUNCH PROGRAM
851613-11A00			DESCRIPTION PRINTED
851613-34A00			SOURCE CARDS
851614AA	B3	9-SERIES	RAD TO MAGNETIC TAPE DUMP
851614-11A00			DESCRIPTION PRINTED
851614-24A00			RELOCATABLE BINARY CARDS
851614-34A00			SOURCE CARDS
851615AA	B3	930	DIGITAL I/O TEST FOR 00/C ATS
851615-11A00			DESCRIPTION PRINTED
851615-44A00			COMPRESSED CARDS
851615-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851616AA	B3	930	ANALOG/NSC-II TEST FOR 00/C ATS
851616-11A00			DESCRIPTION PRINTED
851616-44A00			COMPRESSED CARDS
851616-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851617AA	B3	930	ANALOG ACCURACY TEST FOR 00/C ATS
851617-11A00			DESCRIPTION PRINTED
851617-44A00			COMPRESSED CARDS
851617-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
851618AA	B3	910	ANALOG TEST FOR 0.D./CONVAIR
851618-11A00			DESCRIPTION PRINTED
851618-44A00			COMPRESSED CARDS
851618-84A00			ABSOLUTE BINARY CARDS
851619AA	B3	910	SAMPLE AND HOLD TEST FOR 0.D./CONVAIR
851619-11A00			DESCRIPTION PRINTED
851619-44A00			COMPRESSED CARDS
851619-84A00			ABSOLUTE BINARY CARDS
851620AA	B3	910	SPECIAL ACCEPTANCE TEST FOR 0.D./CONVAIR
851620-11A00			DESCRIPTION PRINTED
851620-44A00			COMPRESSED CARDS
851620-84A00			ABSOLUTE BINARY CARDS
851623AA	B3	9-SERIES	900 PAPER TAPE PUNCH TEST
851623-11A00			DESCRIPTION PRINTED
851623-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
852000AA	B3	9-SERIES	9-SERIES SOFTWARE NOTES COVER
852000-11A00			DESCRIPTION PRINTED
860000AC	B3	9300	TAPE MONITOR SYSTEM (COVER)
860000-11800			DESCRIPTION PRINTED
860000-45800			COMPRESSED MAG TAPE, 7 CHANNELS
860000-74800			CONTROL CARD AND TEST DECK
900513			9300 MONITOR REFERENCE MANUAL
900884			9300 MONITOR TECHNICAL MANUAL

860007AA	B3	9300	7/8 LEVEL READER/PUNCH TEST
860007-11A00			DESCRIPTION PRINTED
860007-44A00			COMPRESSED CARDS
860007-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860007-84A00			ABSOLUTE BINARY CARDS
860035AB	B3	9300	FORT IV COMPILER AND LIBRARIES
860035-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
860035-61A01			UPDATE INSTRUCTIONS PRINTED
860035-64A01			UPDATE ON CARDS
900893			XEROX FORTRAN IV TECH MANUAL
860075AA	B3	9300	META-SYMBOL ASSEMBLER-COVER
860075-11A00			DESCRIPTION PRINTED
860075-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
900508			900 SERIES/9300 SYMBOL AND META-SYMBOL REFERENCE MANUAL
900827			META-SYMBOL TECHNICAL MANUAL
860095AB	B3	9300	FORTAN IV LIBRARY
860095-11A00			DESCRIPTION PRINTED
860095-45A00	860035-45		COMPRESSED MAG TAPE, 7 CHANNELS
860095-61A01	860035-61		UPDATE INSTRUCTIONS PRINTED
860095-64A01	860035-64		UPDATE ON CARDS
860265AB	B3	9300	REAL-TIME FORTRAN IV LIBRARY
860265-45A00	860035-45		COMPRESSED MAG TAPE, 7 CHANNELS
860265-61A01	860035-61		UPDATE INSTRUCTIONS PRINTED
860265-64A01	860035-64		UPDATE ON CARDS
860460AA	B3	9300	MACHINE LANGUAGE LIBRARY (COVER)
860460-24A00	860000-25		RELOCATABLE BINARY CARDS
860460-84A00	860000-85		ABSOLUTE BINARY CARDS
860475AA	B3	9300	9300 MANAGE SYSTEM (COVER)
860475-11A00			DESCRIPTION PRINTED
860475-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
901046			900 SERIES/9300 MANAGE REFERENCE MANUAL
860490AA	B3	9300	9300 BUSINESS LANGUAGE LIBRARY-COVER
860490-11A00			DESCRIPTION PRINTED
860490-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
901043			900 SERIES/9300 COMPUTERS BUSINESS LANG
901022			XDS BUSINESS LANGUAGE REFERENCE MANUAL
860530AA	B3	9300	MONARCH SYSTEM (COVER)
860530-11A00			DESCRIPTION PRINTED
860530-45A00			COMPRESSED MAG TAPE, 7 CHANNELS
860530-85A00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
900566			900 SERIES/9300 MONARCH REFERENCE MANUAL
900616			900 SERIES/9300 MONARCH TECHNICAL MANUAL
860563AB	B3	9300	MEDIA
860563-11B00	850642-11		DESCRIPTION PRINTED
860563-35B00	850095-35		SOURCE MAG TAPE, 7 CHANNELS
860563-84B00			ABSOLUTE BINARY CARDS
860592AA	B3	9300	PROJECT MANAGEMENT SYSTEM (CPM) COVER
860592-24A00	850161-25		RELOCATABLE BINARY CARDS
900818			XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
900822			XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
901504			XDS EXTENDED PROJECT MANAGEMENT SYSTEMS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860605AA	B3	9300	9300 PAPER TAPE BASIC RELOCATABLE LOADER
860605-11A00			DESCRIPTION PRINTED
860605-34A00			SOURCE CARDS
860605-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860606AA	B3	9300	9300 DEBUG
860606-11A00			DESCRIPTION PRINTED
860606-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860606-24A00			RELOCATABLE BINARY CARDS
860606-34A00			SOURCE CARDS
860607AA	B3	9300	BASIC UTILITY PACKAGE 9300
860607-11A00			DESCRIPTION PRINTED
860607-44A00			COMPRESSED CARDS
860607-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860608AA	B3	9300	BINARY DUMP PAPER TAPE OR CARDS
860608-11A00			DESCRIPTION PRINTED
860608-44A00			COMPRESSED CARDS
860608-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860608-84A00			ABSOLUTE BINARY CARDS
860609AA	B3	9300	UNIVERSAL LOADER
860609-11A00			DESCRIPTION PRINTED
860609-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860609-44A00			COMPRESSED CARDS
860609-84A00			ABSOLUTE BINARY CARDS
860610AA	B3	9300	9300 REAL TIME DEBUG
860610-11A00			DESCRIPTION PRINTED
860610-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860610-84A00			ABSOLUTE BINARY CARDS
860611AA	B3	9300	UTILITY AND DEBUG PACKAGE (AID)
860611-11A00			DESCRIPTION PRINTED
860611-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860611-44A00			COMPRESSED CARDS
860611-84A00			ABSOLUTE BINARY CARDS
860612AA	B3	9300	RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS
860612-11A00			DESCRIPTION PRINTED
860612-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860612-24A00			RELOCATABLE BINARY CARDS
860612-34A00			SOURCE CARDS
860613AA	B3	9300	RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT
860613-11A00			DESCRIPTION PRINTED
860613-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860613-24A00			RELOCATABLE BINARY CARDS
860613-34A00			SOURCE CARDS
860614AA	B3	9300	POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)
860614-11A00			DESCRIPTION PRINTED
860614-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860614-24A00			RELOCATABLE BINARY CARDS
860614-34A00			SOURCE CARDS
860615AA	B3	9300	ADAMS-MOULTON DIFFERENTIAL EQUATIONS
860615-11A00			DESCRIPTION PRINTED
860615-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860615-24A00			RELOCATABLE BINARY CARDS

860616AA	B3 9300	FLOATING NEGATE SUBROUTINE - FLN
860616-11A00		DESCRIPTION PRINTED
860616-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860616-24A00		RELOCATABLE BINARY CARDS
860616-34A00		SOURCE CARDS
860617AA	B3 9300	PROGRAMMED FLOATING POINT PACKAGE-FLPT
860617-11A00		DESCRIPTION PRINTED
860617-34A00		SOURCE CARDS
860617-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860617-24A00		RELOCATABLE BINARY CARDS
860618AA	B3 9300	EXPONENTIAL OF A - EXP
860618-11A00		DESCRIPTION PRINTED
860618-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860618-24A00		RELOCATABLE BINARY CARDS
860618-34A00		SOURCE CARDS
860619AA	B3 9300	SIN OR COS OF A - SIN COS
860619-11A00		DESCRIPTION PRINTED
860619-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860619-24A00		RELOCATABLE BINARY CARDS
860619-34A00		SOURCE CARDS
860620AA	B3 9300	ARCTAN OF A - ATN
860620-11A00		DESCRIPTION PRINTED
860620-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860620-24A00		RELOCATABLE BINARY CARDS
860620-34A00		SOURCE CARDS
860621AA	B3 9300	DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM
860621-11A00		DESCRIPTION PRINTED
860621-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860621-24A00		RELOCATABLE BINARY CARDS
860621-34A00		SOURCE CARDS
860622AA	B3 9300	SQUARE ROOT OF A - SQR
860622-11A00		DESCRIPTION PRINTED
860622-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860622-24A00		RELOCATABLE BINARY CARDS
860622-34A00		SOURCE CARDS
860623AA	B3 9300	SQUARE ROOT FLOATING POINT - SQF
860623-11A00		DESCRIPTION PRINTED
860623-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860623-24A00		RELOCATABLE BINARY CARDS
860623-34A00		SOURCE CARDS
860624AA	B3 9300	DOUBLE PRECISION DIVIDE SUBROUTINE-DPD
860624-11A00		DESCRIPTION PRINTED
860624-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860624-24A00		RELOCATABLE BINARY CARDS
860624-34A00		SOURCE CARDS
860625AA	B3 9300	FLOATING POINT LOGARITHM - LOF
860625-11A00		DESCRIPTION PRINTED
860625-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860625-24A00		RELOCATABLE BINARY CARDS
860625-34A00		SOURCE CARDS
860626AA	B3 9300	FLOATING-HYPERBOLIC SINE AND COSINE-SHF
860626-11A00		DESCRIPTION PRINTED
860626-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860626-24A00		RELOCATABLE BINARY CARDS
860626-34A00		SOURCE CARDS

860627AA	B3	9300	FLOATING POINT EXPONENTIAL - EXP
860627-11A00			DESCRIPTION PRINTED
860627-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860627-24A00			RELOCATABLE BINARY CARDS
860627-34A00			SOURCE CARDS
860628AA	B3	9300	FLOATING POINT SINE (COSINE)-SNF (CSF)
860628-11A00			DESCRIPTION PRINTED
860628-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860628-24A00			RELOCATABLE BINARY CARDS
860628-34A00			SOURCE CARDS
860629AA	B3	9300	FLOATING POINT ARCTANGENT - ATF
860629-11A00			DESCRIPTION PRINTED
860629-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860629-24A00			RELOCATABLE BINARY CARDS
860629-34A00			SOURCE CARDS
860630AA	B3	9300	FLOATING POINT, COMPLEX ARITH. PACKAGE
860630-11A00			DESCRIPTION PRINTED
860630-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860630-24A00			RELOCATABLE BINARY CARDS
860630-34A00			SOURCE CARDS
860631AA	B3	9300	FLOATING POINT COMPLEX EXPONENTIAL-EXFC
860631-11A00			DESCRIPTION PRINTED
860631-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860631-24A00			RELOCATABLE BINARY CARDS
860631-34A00			SOURCE CARDS
860632AA	B3	9300	FLOATING POINT COMPLEX LOGARITHM - LNFC
860632-11A00			DESCRIPTION PRINTED
860632-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860632-34A00			SOURCE CARDS
860633AA	B3	9300	FLOATING POINT COMPLEX SQUARE ROOT-SQFC
860633-11A00			DESCRIPTION PRINTED
860633-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860633-24A00			RELOCATABLE BINARY CARDS
860633-34A00			SOURCE CARDS
860634AA	B3	9300	FLOATING POINT COMPLEX ARCTANGENT - ATFC
860634-11A00			DESCRIPTION PRINTED
860634-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860634-24A00			RELOCATABLE BINARY CARDS
860634-34A00			SOURCE CARDS
860635AA	B3	9300	FLOATING COMPLEX SINE AND COSINE - SNFC
860635-11A00			DESCRIPTION PRINTED
860635-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860635-24A00			RELOCATABLE BINARY CARDS
860635-34A00			SOURCE CARDS
860636AA	B3	9300	LOGARITHM SUBROUTINE TO BASE E OR 10
860636-11A00			DESCRIPTION PRINTED
860636-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860636-24A00			RELOCATABLE BINARY CARDS
860636-34A00			SOURCE CARDS
860637AA	B3	9300	FL. PT. EXTENDED PRECISION SQUARE ROOT
860637-11A00			DESCRIPTION PRINTED
860637-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860637-24A00			RELOCATABLE BINARY CARDS
860637-34A00			SOURCE CARDS

860638AA	B3	9300	EXTENDED PRECISION ARITHMETIC PACKAGE
860638-11A00			DESCRIPTION PRINTED
860638-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860638-24A00			RELOCATABLE BINARY CARDS
860638-34A00			SOURCE CARDS
860639AA	B3	9300	BINARY TO DECIMAL CONVERSION-BTDFL1
860639-11A00			DESCRIPTION PRINTED
860639-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860639-24A00			RELOCATABLE BINARY CARDS
860639-34A00			SOURCE CARDS
860640AA	B3	9300	BINARY TO BCD CONVERTED BTDFX2,BTDFL2
860640-11A00			DESCRIPTION PRINTED
860640-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860640-24A00			RELOCATABLE BINARY CARDS
860640-34A00			SOURCE CARDS
860641AA	B3	9300	ONE CARD OCTAL MEMORY DUMP (PRINTER)
860641-11A00			DESCRIPTION PRINTED
860641-34A00			SOURCE CARDS
860641-84A00			ABSOLUTE BINARY CARDS
860642AA	B3	9300	FL. PT.EXTENDED PRECISION EXPONENTIAL
860642-11A00			DESCRIPTION PRINTED
860642-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860642-24A00			RELOCATABLE BINARY CARDS
860642-34A00			SOURCE CARDS
860643AA	B3	9300	DECIMAL/BINARY CONVERSION ROUTINES
860643-11A00			DESCRIPTION PRINTED
860643-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860643-24A00			RELOCATABLE BINARY CARDS
860643-34A00			SOURCE CARDS
860644AA	B3	9300	DECIMAL TO BINARY CONVERSION - DTBFX
860644-11A00			DESCRIPTION PRINTED
860644-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860644-24A00			RELOCATABLE BINARY CARDS
860644-34A00			SOURCE CARDS
860645AA	B3	9300	9300 DISPLAY CONVERSION (DISCV)-S SEE
860645-11A00			DESCRIPTION PRINTED
860645-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860645-24A00			RELOCATABLE BINARY CARDS
860645-34A00			SOURCE CARDS
860646AA	B3	9300	FL. PT. EXTENDED PRECISION NATURAL LOG
860646-11A00			DESCRIPTION PRINTED
860646-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860646-24A00			RELOCATABLE BINARY CARDS
860646-34A00			SOURCE CARDS
860647AA	B3	9300	F. P. EXTENDED PRECISION SIN (COS)-SNFE
860647-11A00			DESCRIPTION PRINTED
860647-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860647-24A00			RELOCATABLE BINARY CARDS
860647-34A00			SOURCE CARDS
860648AA	B3	9300	PAPER TAPE AND TYPEWRITER SUBROUTINE
860648-11A00			DESCRIPTION PRINTED
860648-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860648-24A00			RELOCATABLE BINARY CARDS
860648-44A00			COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860650AA	B3	9300	FL. PT. EXTENDED PRECISION ARCTAN - ATFE
860650-11A00			DESCRIPTION PRINTED
860650-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860650-24A00			RELOCATABLE BINARY CARDS
860650-44A00			COMPRESSED CARDS
860651AA	B3	9300	REAL MATRIX ADDITION-RMADD
860651-11A00			DESCRIPTION PRINTED
860651-24A00			RELOCATABLE BINARY CARDS
860651-34A00			SOURCE CARDS
860652AA	B3	9300	REAL MATRIX SUBTRACTION - RMSUB
860652-11A00			DESCRIPTION PRINTED
860652-24A00			RELOCATABLE BINARY CARDS
860653AA	B3	9300	REAL MATRIX TRANSPOSE-RMTRA
860653-11A00			DESCRIPTION PRINTED
860653-24A00			RELOCATABLE BINARY CARDS
860653-34A00			SOURCE CARDS
860654AA	B3	9300	REAL MATRIX MULTIPLY-RMMUL
860654-11A00			DESCRIPTION PRINTED
860654-24A00			RELOCATABLE BINARY CARDS
860654-34A00			SOURCE CARDS
860655AA	B3	9300	REAL MATRIX INVERSION-RMINV
860655-11A00			DESCRIPTION PRINTED
860655-24A00			RELOCATABLE BINARY CARDS
860655-34A00			SOURCE CARDS
860656AA	B3	9300	COMPLEX MATRIX ADDITION-CHADD
860656-11A00			DESCRIPTION PRINTED
860656-24A00			RELOCATABLE BINARY CARDS
860656-34A00			SOURCE CARDS
860657AA	B3	9300	COMPLEX MATRIX INVERSION-CHINV
860657-11A00			DESCRIPTION PRINTED
860657-24A00			RELOCATABLE BINARY CARDS
860657-34A00			SOURCE CARDS
860658AA	B3	9300	COMPLEX MATRIX MULTIPLICATION-CMMUL
860658-11A00			DESCRIPTION PRINTED
860658-24A00			RELOCATABLE BINARY CARDS
860658-34A00			SOURCE CARDS
860659AA	B3	9300	COMPLEX MATRIX SUBTRACTION-CHSUB
860659-11A00			DESCRIPTION PRINTED
860659-24A00			RELOCATABLE BINARY CARDS
860659-34A00			SOURCE CARDS
860660AA	B3	9300	COMPLEX MATRIX TRANSPOSE-CHTRA
860660-11A00			DESCRIPTION PRINTED
860660-24A00			RELOCATABLE BINARY CARDS
860660-34A00			SOURCE CARDS
860661AA	B3	9300	EXAMINER DIAGNOSTIC (COVER)
860661-11A00		900624	DESCRIPTION PRINTED
860661-24A00			RELOCATABLE BINARY CARDS
900624			XDS 9300 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL

860662AA	B3	9300	VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC
860662-11A00		900624	DESCRIPTION PRINTED
860662-34A00			SOURCE CARDS
860662-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860662-84A00			ABSOLUTE BINARY CARDS
860663AA	B3	9300	MEMORY DIAGNOSTIC
860663-11A00		900624	DESCRIPTION PRINTED
860663-34A00			SOURCE CARDS
860663-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860663-84A00			ABSOLUTE BINARY CARDS
860664AA	B3	9300	AUTOMATIC INSTRUCTION DIAGNOSTIC
860664-11A00		900624	DESCRIPTION PRINTED
860664-44A00			COMPRESSED CARDS
860664-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860664-84A00			ABSOLUTE BINARY CARDS
860665AA	B3	9300	P AND S REGISTER TESTER
860665-11A00		900624	DESCRIPTION PRINTED
860665-34A00			SOURCE CARDS
860665-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860665-84A00			ABSOLUTE BINARY CARDS
860666AA	B3	9300	SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
860666-11A00			DESCRIPTION PRINTED
860666-44A00			COMPRESSED CARDS
860666-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860666-84A00			ABSOLUTE BINARY CARDS
860667AA	B3	9300	INTERRUPT EXERCISER
860667-11A00			DESCRIPTION PRINTED
860667-24A00			RELOCATABLE BINARY CARDS
860667-34A00			SOURCE CARDS
860667-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860669AA	B3	9300	SINE/COSINE SINRX,COSRX,SINDX,COSDX
860669-11A00			DESCRIPTION PRINTED
860669-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860669-24A00			RELOCATABLE BINARY CARDS
860669-34A00			SOURCE CARDS
860670AA	B3	9300	9300 EXPONENTIAL (E OR 10) EXPNX,EXPTX
860670-11A00			DESCRIPTION PRINTED
860670-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860670-24A00			RELOCATABLE BINARY CARDS
860670-34A00			SOURCE CARDS
860671AA	B3	9300	9300 ARCTANGENT ATNRX,ATNDX
860671-11A00			DESCRIPTION PRINTED
860671-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860671-24A00			RELOCATABLE BINARY CARDS
860671-34A00			SOURCE CARDS
860672AA	B3	9300	FLOATING POINT EXPONENTIAL EXFN,EXFT
860672-11A00			DESCRIPTION PRINTED
860672-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860672-24A00			RELOCATABLE BINARY CARDS
860672-34A00			SOURCE CARDS
860673AA	B3	9300	F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)
860673-11A00			DESCRIPTION PRINTED
860673-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860673-24A00			RELOCATABLE BINARY CARDS
860673-34A00			SOURCE CARDS

860674AA	B3	9300	LOGARITHM (BASE E OR 10)-LOGN,LOGT
860674-11A00			DESCRIPTION PRINTED
860674-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860674-24A00			RELOCATABLE BINARY CARDS
860674-34A00			SOURCE CARDS
860675AA	B3	9300	FL. PT. ARCTANGENT-ATFR,ATFD
860675-11A00			DESCRIPTION PRINTED
860675-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860675-24A00			RELOCATABLE BINARY CARDS
860675-34A00			SOURCE CARDS
860676AA	B3	9300	ARCSINE,ARCCOSINE (DEGREES-RADIANS)
860676-11A00			DESCRIPTION PRINTED
860676-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860676-24A00			RELOCATABLE BINARY CARDS
860676-34A00			SOURCE CARDS
860677AA	B3	9300	ARCSINE,ARCCOSINE-ASN,ACSX,ASNDC,ACSDX
860677-11A00			DESCRIPTION PRINTED
860677-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860677-24A00			RELOCATABLE BINARY CARDS
860677-34A00			SOURCE CARDS
860678AA	B3	9300	TANGENT-TAN,TAND
860678-11A00			DESCRIPTION PRINTED
860678-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860678-24A00			RELOCATABLE BINARY CARDS
860678-34A00			SOURCE CARDS
860679AA	B3	9300	INTERNAL SORT (SORTAC,SORTDC)
860679-11A00			DESCRIPTION PRINTED
860679-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860679-24A00			RELOCATABLE BINARY CARDS
860679-44A00			COMPRESSED CARDS
860680AA	B3	9300	TANGENT-TANX,TANDX(DEGREES OR RADIANS)
860680-11A00			DESCRIPTION PRINTED
860680-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860680-24A00			RELOCATABLE BINARY CARDS
860680-34A00			SOURCE CARDS
860681AA	B3	9300	HYBRID RUNGE-KUTTA GILL INTEGRATION
860681-11A00			DESCRIPTION PRINTED
860681-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860681-24A00			RELOCATABLE BINARY CARDS
860681-34A00			SOURCE CARDS
860682AA	B3	9300	LINEAR INTERPOLATION (3 ARGUMENTS)
860682-11A00			DESCRIPTION PRINTED
860682-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860682-24A00			RELOCATABLE BINARY CARDS
860682-34A00			SOURCE CARDS
860683AA	B3	9300	LINEAR INTERPOLATION (2 ARGUMENTS)
860683-11A00			DESCRIPTION PRINTED
860683-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860683-24A00			RELOCATABLE BINARY CARDS
860683-34A00			SOURCE CARDS
860684AA	B3	9300	LINEAR INTERPOLATION (1 ARGUMENT)
860684-11A00			DESCRIPTION PRINTED
860684-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860684-24A00			RELOCATABLE BINARY CARDS
860684-34A00			SOURCE CARDS

860685AA	B3 9300	HYBRID ADAMS-MOULTON DIFF. EQUATIONS
860685-11A00		DESCRIPTION PRINTED
860685-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860685-24A00		RELOCATABLE BINARY CARDS
860685-34A00		SOURCE CARDS
860686AA	B3 9300	HYBRID RECTANGULAR INTEGRATION
860686-11A00		DESCRIPTION PRINTED
860686-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860686-24A00		RELOCATABLE BINARY CARDS
860686-34A00		SOURCE CARDS
860687AA	B3 9300	HYBRID 2-POINT PREDICTOR
860687-11A00		DESCRIPTION PRINTED
860687-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860687-24A00		RELOCATABLE BINARY CARDS
860687-34A00		SOURCE CARDS
860688AA	B3 9300	HYBRID 4-POINT PREDICTOR
860688-11A00		DESCRIPTION PRINTED
860688-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860688-24A00		RELOCATABLE BINARY CARDS
860688-34A00		SOURCE CARDS
860689AA	B3 9300	HYBRID 4-POINT CORRECTOR
860689-11A00		DESCRIPTION PRINTED
860689-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860689-24A00		RELOCATABLE BINARY CARDS
860689-34A00		SOURCE CARDS
860690AA	B3 9300	ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI
860690-11A00		DESCRIPTION PRINTED
860690-22A00		RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860690-34A00		SOURCE CARDS
860692AA	B3 9300	9300 STAND-ALONE SYSTEM-MAKE ROUTINE
860692-11A00		DESCRIPTION PRINTED
860692-24A00		RELOCATABLE BINARY CARDS
900884		9300 MONITOR TECHNICAL MANUAL.
860694AA	B3 9300	MAG TAPE COPY AND VERIFY PROGRAM
860694-11A00		DESCRIPTION PRINTED
860694-24A00		RELOCATABLE BINARY CARDS
860694-44A00		COMPRESSED CARDS
860696AA	B3 9300	BIG MEMORY DIAGNOSTIC
860696-11A00		DESCRIPTION PRINTED
860696-34A00		SOURCE CARDS
860696-82A00		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860696-84A00		ABSOLUTE BINARY CARDS
860697AA	B3 9300	POLYNOMIAL TELESCOPER
860697-11A00		DESCRIPTION PRINTED
860697-34A00		SOURCE CARDS
860697-84A00		ABSOLUTE BINARY CARDS
860698AA	B3 9300	KWIC INDEX PROGRAM FOR SIGMA
860698-11A00		DESCRIPTION PRINTED
860698-84A00		ABSOLUTE BINARY CARDS
860700AA	B3 9300	FORTRAN IV ERROR CHECKING DEMO
860700-11A00		DESCRIPTION PRINTED
860700-34A00		SOURCE CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860716AA	B3	9300	BINARY INPUT--PAPER TAPE LOADER
860716-11A00			DESCRIPTION PRINTED
860716-34A00			SOURCE CARDS
860716-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860718AA	B3	9300	EXTENDED MODE I/O TEST PROGRAM
860718-11A00			DESCRIPTION PRINTED
860718-44A00			COMPRESSED CARDS
860718-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860718-84A00			ABSOLUTE BINARY CARDS
860719AA	B3	9300	PHOTO-READER TEST PROGRAM
860719-11A00			DESCRIPTION PRINTED
860719-44A00			COMPRESSED CARDS
860719-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860719-84A00			ABSOLUTE BINARY CARDS
860720AA	B3	9300	BASIC 2 CARD RELOCATABLE LOADER
860720-11A00			DESCRIPTION PRINTED
860720-34A00			SOURCE CARDS
860720-84A00			ABSOLUTE BINARY CARDS
860721AA	B3	9300	BINARY INPUT-1 CARD ABS. LOADER
860721-11A00			DESCRIPTION PRINTED
860721-34A00			SOURCE CARDS
860721-84A00			ABSOLUTE BINARY CARDS
860722AA	B3	9300	ONE CARD OCTAL MEMORY DUMP (TYPEWRITER)
860722-11A00			DESCRIPTION PRINTED
860722-34A00			SOURCE CARDS
860722-84A00			ABSOLUTE BINARY CARDS
860723AA	B3	9300	OCTAL INPUT-1 CARD LOADER
860723-11A00			DESCRIPTION PRINTED
860723-34A00			SOURCE CARDS
860723-84A00			ABSOLUTE BINARY CARDS
860726AA	B3	9300	CARD READ SUBROUTINE - CDR
860726-11A00			DESCRIPTION PRINTED
860726-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860726-24A00			RELOCATABLE BINARY CARDS
860726-44A00			COMPRESSED CARDS
860727AA	B3	9300	CARD READER TEST PROGRAM
860727-11A00			DESCRIPTION PRINTED
860727-44A00			COMPRESSED CARDS
860727-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860727-84A00			ABSOLUTE BINARY CARDS
860729AA	B3	9300	CARD PUNCH TEST PROGRAM
860729-11A00			DESCRIPTION PRINTED
860729-44A00			COMPRESSED CARDS
860729-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860729-84A00			ABSOLUTE BINARY CARDS
860730AA	B3	9300	9158 CARD PUNCH TEST PROGRAM
860730-11A00			DESCRIPTION PRINTED
860730-34A00			SOURCE CARDS
860730-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860730-84A00			ABSOLUTE BINARY CARDS

860731AA	B3	9300	I/O HANDLER CDRP
860731-11A00			DESCRIPTION PRINTED
860731-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860731-24A00			RELOCATABLE BINARY CARDS
860731-44A00			COMPRESSED CARDS
860732AA	B3	9300	MAGNETIC TAPE HANDLER (MTAPE)
860732-11A00			DESCRIPTION PRINTED
860732-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860732-24A00			RELOCATABLE BINARY CARDS
860732-44A00			COMPRESSED CARDS
860733AA	B3	9300	CARD OR MAG. TAPE UNIVERSAL LOADER
860733-11A00			DESCRIPTION PRINTED
860733-34A00			SOURCE CARDS
860733-84A00			ABSOLUTE BINARY CARDS
860734AA	B3	9300	MAG TAPE TRANSFORMATION (TRANSFORM)
860734-11A00			DESCRIPTION PRINTED
860734-24A00			RELOCATABLE BINARY CARDS
860734-44A00			COMPRESSED CARDS
860737AA	B3	9300	BINARY MAG TAPE EDITOR
860737-11A00			DESCRIPTION PRINTED
860737-44A00			COMPRESSED CARDS
860737-84A00			ABSOLUTE BINARY CARDS
860738AA	B3	9300	EXTENDED MODE MULTI MAG TAPE EXERCISOR
860738-11A00			DESCRIPTION PRINTED
860738-44A00			COMPRESSED CARDS
860738-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860738-84A00			ABSOLUTE BINARY CARDS
860739AA	B3	9300	MAGNETIC TAPE TEST PROGRAM
860739-11A00			DESCRIPTION PRINTED
860739-44A00			COMPRESSED CARDS
860739-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860739-84A00			ABSOLUTE BINARY CARDS
860740AA	B3	9300	SORT/MERGE (COVER)
860740-11A00			DESCRIPTION PRINTED
860740-44A00			COMPRESSED CARDS
860740-84A00			ABSOLUTE BINARY CARDS
900997			900 SERIES/9300 COMPUTERS REFERENCE MANUAL
901044			900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
860741AA	B3	9300	SORT
860741-84A00		860740-84	ABSOLUTE BINARY CARDS
900997			900 SERIES/9300 SORT/MERGE REFERENCE
901044			900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
860742AA	B3	9300	MERGE
860742-84A00		860740-84	ABSOLUTE BINARY CARDS
900997			900 SERIES/9300 SORT/MERGE REFERENCE MANUAL
901044			900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
860743AA	B3	9300	PAYROLL GENERATOR PROGRAM
860743-11A00			DESCRIPTION PRINTED
860743-24A00			RELOCATABLE BINARY CARDS
860743-44A00			COMPRESSED CARDS

860744AA	B3	9300	DATA MULTIPLEX CHANNEL TEST
860744-11A00			DESCRIPTION PRINTED
860744-44A00			COMPRESSED CARDS
860744-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860744-84A00			ABSOLUTE BINARY CARDS
860745AA	B3	9300	DACC DIAGNOSTIC TEST FOR 9300
860745-11A00			DESCRIPTION PRINTED
860745-44A00			COMPRESSED CARDS
860745-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860745-84A00			ABSOLUTE BINARY CARDS
860746AA	B3	9300	TMCC DIAGNOSTIC TEST FOR 9300
860746-11A00			DESCRIPTION PRINTED
860746-44A00			COMPRESSED CARDS
860746-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860746-84A00			ABSOLUTE BINARY CARDS
860747AA	B3	9300	DSC-I DIAGNOSTIC TEST
860747-11A00			DESCRIPTION PRINTED
860747-44A00			COMPRESSED CARDS
860747-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860747-84A00			ABSOLUTE BINARY CARDS
860748AA	B3	9300	DSC-II DIAGNOSTIC TEST
860748-11A00			DESCRIPTION PRINTED
860748-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860748-84A00			ABSOLUTE BINARY CARDS
860749AA	B3	9300	MODEL 9372 UNBUFFERED LINE PRINTER SUBR
860749-11A00			DESCRIPTION PRINTED
860749-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860749-24A00			RELOCATABLE BINARY CARDS
860749-44A00			COMPRESSED CARDS
860750AA	B3	9300	MONARCH SYS. UPDATE FOR UNBUFFERED PRINT
860750-11A00			DESCRIPTION PRINTED
860750-84A00			ABSOLUTE BINARY CARDS
860751AB	B3	9300	SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR
860751-11B00			DESCRIPTION PRINTED
860751-22B00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860751-24B00			RELOCATABLE BINARY CARDS
860751-34B00			SOURCE CARDS
860752AA	B3	9300	LINE PRINTER SUBROUTINE (PRINT)
860752-11A00			DESCRIPTION PRINTED
860752-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
860752-24A00			RELOCATABLE BINARY CARDS
860752-44A00			COMPRESSED CARDS
860753AA	B3	9300	PRINTER DIAGNOSTIC
860753-11A00			DESCRIPTION PRINTED
860753-44A00			COMPRESSED CARDS
860753-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860753-84A00			ABSOLUTE BINARY CARDS
860754AA	B3	9300	9379/9171 BUFFERED LINE PRINTER DIAO
860754-11A00			DESCRIPTION PRINTED
860754-44A00			COMPRESSED CARDS
860754-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860754-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860755AA	B3	9300	MODEL 9372 UNBUFFERED LINE PRINTER TEST
860755-11A00			DESCRIPTION PRINTED
860755-44A00			COMPRESSED CARDS
860755-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860755-84A00			ABSOLUTE BINARY CARDS
860757AA	B3	9300	PLOTTER TEST
860757-11A00			DESCRIPTION PRINTED
860757-44A00			COMPRESSED CARDS
860757-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860757-84A00			ABSOLUTE BINARY CARDS
860758AA	B3	9300	MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
860758-11A00			DESCRIPTION PRINTED
860758-44A00			COMPRESSED CARDS
860758-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860758-84A00			ABSOLUTE BINARY CARDS
860759AA	B3	9300	SPECIAL PRIORITY INTERRUPT TEST ROUTINE
860759-11A00			DESCRIPTION PRINTED
860759-24A00			RELOCATABLE BINARY CARDS
860759-44A00			COMPRESSED CARDS
860759-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860760AA	B3	9300	SPECIAL TYPEWRITER TEST ROUTINE
860760-11A00			DESCRIPTION PRINTED
860760-24A00			RELOCATABLE BINARY CARDS
860760-44A00			COMPRESSED CARDS
860761AA	B3	9300	SPECIAL PAPER TAPE PUNCH-READ TEST
860761-11A00			DESCRIPTION PRINTED
860761-44A00			COMPRESSED CARDS
860761-84A00			ABSOLUTE BINARY CARDS
860762AA	B3	9300	CATHODE RAYTUBE DISPLAY SYSTEM TEST
860762-11A00			DESCRIPTION PRINTED
860762-44A00			COMPRESSED CARDS
860762-84A00			ABSOLUTE BINARY CARDS
860763AA	B3	9300	DES-1 DIAGNOSTIC PROGRAM
860763-11A00			DESCRIPTION PRINTED
860763-44A00			COMPRESSED CARDS
860763-84A00			ABSOLUTE BINARY CARDS
860764AA	B3	9300	MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE
860764-11A00			DESCRIPTION PRINTED
860764-44A00			COMPRESSED CARDS
860764-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860764-84A00			ABSOLUTE BINARY CARDS
860765AA	B3	9300	9287 DISC FILE DIAGNOSTIC-(DFD)
860765-11A00			DESCRIPTION PRINTED
860765-44A00			COMPRESSED CARDS
860765-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860765-84A00			ABSOLUTE BINARY CARDS
860766AA	B3	9300	CFE-1 DIAGNOSTIC
860766-11A00			DESCRIPTION PRINTED
860766-44A00			COMPRESSED CARDS
860766-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860766-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860767AA	B3	9300	RAD APOCALYPTIC DIAGNOSTIC
860767-11A00			DESCRIPTION PRINTED
860767-44A00			COMPRESSED CARDS
860767-72A00			DATA PAPER TAPE, 7 LEVELS
860767-84A00			ABSOLUTE BINARY CARDS
860768AA	B3	9300	DPD TEST PROGRAM
860768-11A00			DESCRIPTION PRINTED
860768-44A00			COMPRESSED CARDS
860768-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860768-84A00			ABSOLUTE BINARY CARDS
860769AA	B3	9300	INTERRUPT ARM-DISARM FEATURE TEST PROGRA
860769-11A00			DESCRIPTION PRINTED
860769-44A00			COMPRESSED CARDS
860769-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860770AA	B3	9300	CECIS SPECIAL ACCEPTANCE TEST
860770-11A00			DESCRIPTION PRINTED
860770-44A00			COMPRESSED CARDS
860770-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860770-84A00			ABSOLUTE BINARY CARDS
860771AA	B3	9300	REAL TIME CLOCK TEST ROUTINE
860771-11A00			DESCRIPTION PRINTED
860771-44A00			COMPRESSED CARDS
860771-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860771-84A00			ABSOLUTE BINARY CARDS
860772AA	B3	9300	CFE-1 AND MAG TAPE COMPATABILITY PROGRAM
860772-11A00			DESCRIPTION PRINTED
860772-44A00			COMPRESSED CARDS
860772-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860772-84A00			ABSOLUTE BINARY CARDS
860773AA	B3	9300	SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN
860773-11A00			DESCRIPTION PRINTED
860773-44A00			COMPRESSED CARDS
860773-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860773-84A00			ABSOLUTE BINARY CARDS
860774AA	B3	9300	PATCH
860774-11A00			DESCRIPTION PRINTED
860774-44A00			COMPRESSED CARDS
860774-84A00			ABSOLUTE BINARY CARDS
860776AA	B3	9300	STANDARD ANALOG TEST PROGRAM
860776-11A00			DESCRIPTION PRINTED
860776-84A00			ABSOLUTE BINARY CARDS
860777AA	B3	9300	BOEING RANDOM NUM. GEN. TEST PROGRAM
860777-11A00			DESCRIPTION PRINTED
860777-44A00			COMPRESSED CARDS
860777-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860777-84A00			ABSOLUTE BINARY CARDS
860778AA	B3	9300	BOEING FAULT TREE TEST PROGRAM
860778-11A00			DESCRIPTION PRINTED
860778-44A00			COMPRESSED CARDS
860778-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860778-84A00			ABSOLUTE BINARY CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

860779AA	B3	9300	DES-1 8K VERSION
860779-11A00			DESCRIPTION PRINTED
860779-44A00			COMPRESSED CARDS
860779-84A00			ABSOLUTE BINARY CARDS
980065			XDS DES-1 DIFFERENTIAL EQUATION SOLVER
860780AA	B3	9300	DES-1 16K VERSION
860780-11A00			DESCRIPTION PRINTED
860780-44A00			COMPRESSED CARDS
860780-84A00			ABSOLUTE BINARY CARDS
980065			XDS DES-1 DIFFERENTIAL EQUATION SOLVER
860781AA	B3	9300	DES-1 24K VERSION
860781-11A00			DESCRIPTION PRINTED
860781-44A00			COMPRESSED CARDS
860781-84A00			ABSOLUTE BINARY CARDS
980065			XDS DES-1 DIFFERENTIAL EQUATION SOLVER
860782AA	B3	9300	DES-1 32K VERSION
860782-11A00			DESCRIPTION PRINTED
860782-44A00			COMPRESSED CARDS
860782-84A00			ABSOLUTE BINARY CARDS
980065			XDS DES-1 DIFFERENTIAL EQUATION SOLVER
860783AA	B3	9300	ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH
860783-11A00			DESCRIPTION PRINTED
860783-44A00			COMPRESSED CARDS
860784AB	B3	9300	RTM STAND-ALONE UPDATE
860784-11B00			DESCRIPTION PRINTED
860784-44B00	861000-45		COMPRESSED CARDS
860784-45B00	861000-45		COMPRESSED MAG TAPE, 7 CHANNELS
860784-84B00			ABSOLUTE BINARY CARDS
860787AA	B3	9300	9-TRACK MAGNETIC TAPE TEST PROGRAM
860787-11A00			DESCRIPTION PRINTED
860787-44A00			COMPRESSED CARDS
860787-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860787-84A00			ABSOLUTE BINARY CARDS
860788AA	B3	9300	DOUGLAS MOL SYS. CHECK OUT PROGRAM
860788-11A00			DESCRIPTION PRINTED
860788-44A00			COMPRESSED CARDS
860789AA	B3	9300	GENERAL ELECTRIC MOL SYS. CHECK OUT PROG
860789-11A00			DESCRIPTION PRINTED
860789-44A00			COMPRESSED CARDS
860789-84A00			ABSOLUTE BINARY CARDS
860790AA	B3	9300	ACCEPT TEST PROG.FOR NASA HOUSTON LEM
860790-11A00			DESCRIPTION PRINTED
860790-44A00			COMPRESSED CARDS
860790-84A00			ABSOLUTE BINARY CARDS
860791AA	B3	9300	DES-1 SYS06N FOR NAA SYSTEM
860791-11A00			DESCRIPTION PRINTED
860791-24A00			RELOCATABLE BINARY CARDS
860791-44A00			COMPRESSED CARDS
860791-84A00			ABSOLUTE BINARY CARDS

860792AA	B3	9300	9379 PRINTER DIAGNOSTIC
860792-11A00			DESCRIPTION PRINTED
860792-44A00			COMPRESSED CARDS
860792-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860792-84A00			ABSOLUTE BINARY CARDS
860793AA	B3	9300	9TRACK MAGNETIC TAPE TEST PROGRAM
860793-11A00			DESCRIPTION PRINTED
860793-44A00			COMPRESSED CARDS
860793-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860793-84A00			ABSOLUTE BINARY CARDS
860794AA	B3	9300	9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
860794-11A00			DESCRIPTION PRINTED
860794-44A00			COMPRESSED CARDS
860794-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860794-84A00			ABSOLUTE BINARY CARDS
860795AA	B3	9300	NASA EDWARDS INTERFACE TEST
860795-11A00			DESCRIPTION PRINTED
860795-44A00			COMPRESSED CARDS
860795-84A00			ABSOLUTE BINARY CARDS
860796AA	B3	9300	NASA EDWARDS HYBRID EXECUTION LIBRARY
860796-11A00			DESCRIPTION PRINTED
860796-24A00			RELOCATABLE BINARY CARDS
860796-44A00			COMPRESSED CARDS
860797AA	B3	9300	NORTH AMERICAN HYBRID INTERFACE TEST
860797-11A00			DESCRIPTION PRINTED
860797-24A00			RELOCATABLE BINARY CARDS
860797-44A00			COMPRESSED CARDS
860797-84A00			ABSOLUTE BINARY CARDS
860798AA	B3	9300	NORTH AMERICAN AVIATION HYBRID EXECUTIVE
860798-11A00			DESCRIPTION PRINTED
860798-24A00			RELOCATABLE BINARY CARDS
860798-34A00			SOURCE CARDS
860799AA	B3	9300	NAA DES-1 HYBRID CALL LIBRARY
860799-11A00			DESCRIPTION PRINTED
860799-24A00			RELOCATABLE BINARY CARDS
860799-34A00			SOURCE CARDS
860800AA	B3	9300	INTER-COMPUTER COUPLER TEST
860800-11A00			DESCRIPTION PRINTED
860800-34A00			SOURCE CARDS
860800-44A00			COMPRESSED CARDS
860800-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
860803AA	B3	9300	SYMBOL BOOTSTRAP
860803-24A00	860530-85		RELOCATABLE BINARY CARDS
860803-44A00	860530-45		COMPRESSED CARDS
861000AC	B3	9300	REAL-TIME MONITOR
861000-11D00			DESCRIPTION PRINTED
861000-45D00			COMPRESSED MAG TAPE, 7 CHANNELS
861000-74D00			TEST DECK
861076AA	B3	9300	USNPOS HYBRID INTERFACE TEST
861076-11A00			DESCRIPTION PRINTED
861076-44A00			COMPRESSED CARDS
861076-84A00			ABSOLUTE BINARY CARDS

861077AA	B3	9300	USNPGS DISPLAY TEST PROGRAM
861077-11A00			DESCRIPTION PRINTED
861077-24A00			RELOCATABLE BINARY CARDS
861077-44A00			COMPRESSED CARDS
861078AA	B3	9300	USNPGS HYBRID EXECUTIVE LIBRARY
861078-11A00			DESCRIPTION PRINTED
861078-24A00			RELOCATABLE BINARY CARDS
861078-44A00			COMPRESSED CARDS
861079AA	B3	9300	USNPGS DISPLAY EXECUTIVE LIBRARY
861079-11A00			DESCRIPTION PRINTED
861079-24A00			RELOCATABLE BINARY CARDS
861079-44A00			COMPRESSED CARDS
861082AA	B3	9300	RAD TO MAGNETIC TAPE DUMP
861082-11A00			DESCRIPTION PRINTED
861082-24A00			RELOCATABLE BINARY CARDS
861082-34A00			SOURCE CARDS
861083AA	B3	9300	SYMBOL ASSEMBLER (COVER)
861083-11A00	900687		DESCRIPTION PRINTED
861083-45A00	860530-45		COMPRESSED MAG TAPE, 7 CHANNELS
861083-85A00	860530-85		ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
861084AA	B3	9300	USNPGS DISPLAY SUBSYSTEM
861084-11A00			DESCRIPTION PRINTED
861084-24A00			RELOCATABLE BINARY CARDS
861084-44A00			COMPRESSED CARDS
861085AA	B3	9300	FORTRAN IV LIBRARY 9RDDISC,9WRDISC
861085-11A00	901107		DESCRIPTION PRINTED
861085-24A00			RELOCATABLE BINARY CARDS
861085-44A00			COMPRESSED CARDS
870000AA	B3	940	EXAMINER DIAGNOSTIC SYSTEM (COVER)
870000-11A00	900634		DESCRIPTION PRINTED
870000-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870000-84A00			ABSOLUTE BINARY CARDS
900634			XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
870001AA	B3	940	MEMORY ACCESS DIAGNOSTIC PROGRAM
870001-11A00	900634		DESCRIPTION PRINTED
870001-82A00	870000-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870001-84A00	870000-84		ABSOLUTE BINARY CARDS
900634			XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
870002AA	B3	940	MEMORY DIAGNOSTIC PROGRAM
870002-11A00	900634		DESCRIPTION PRINTED
870002-82A00	870000-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870002-84A00	870000-84		ABSOLUTE BINARY CARDS
900634			XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
870003AA	B3	940	INSTRUCTION DIAGNOSTIC PROGRAM
870003-11A00	900634		DESCRIPTION PRINTED
870003-82A00	870000-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870003-84A00	870000-84		ABSOLUTE BINARY CARDS
900634			XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
870004AA	B3	940	INTERRUPT DIAGNOSTIC PROGRAM
870004-11A00	900634		DESCRIPTION PRINTED
870004-82A00	870000-82		ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870004-84A00	870000-84		ABSOLUTE BINARY CARDS
900634			XDS 940 COMPUTER DIAGNOATIC SYSTEM TECHNICAL MANUAL

870006AA	B3	940	MEMORY ADDRESS TEST
870006-11			DESCRIPTION PRINTED
870006-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870006-84A00			ABSOLUTE BINARY CARDS
870007AA	B3	940	940 DISC EXERCISER DIAGNOSTIC
870007-11A00			DESCRIPTION PRINTED
870007-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870007-84A00			ABSOLUTE BINARY CARDS
870008AA	B3	940	940 RAD DIAGNOSTIC EXERCISER
870008-11A00			DESCRIPTION PRINTED
870008-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
870008-84A00			ABSOLUTE BINARY CARDS
870009AB	B3	940	940 TIME-SHARING SYSTEM DISC DUMP
870009-85B00			ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
901118			XDS 940 TERMINAL USER'S GUIDE
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870010AB	B3	940	940 WRITE SUBSYSTEMS ON RAD (WSD)
870010-34B00	870026-35		SOURCE CARDS
870010-84B00			ABSOLUTE BINARY CARDS
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870011AB	B3	940	940 OPERATOR'S EXECUTIVE
870011-34B00	870026-35		SOURCE CARDS
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870012AB	B3	940	940 MAP DISC
870012-34B00	870026-35		SOURCE CARDS
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870013AB	B3	940	DISC SWAP
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870014AB	B3	940	940 DISC DUMP/LOAD
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870016AB	B3	940	940 TIME-SHARING SYSTEM EXECUTIVE
870016-34B00	870026-35		SOURCE CARDS
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870017AB	B3	940	940 TIME SHARING SYSTEM MONITOR
870017-34B00	870026-35		SOURCE CARDS
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870018AB	B3	940	940 TAP
901117			XDS 940 TAP REFERENCE MANUAL
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870019AB	B3	940	940 QED
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
901112			XDS 940 QED REFERENCE MANUAL
870020AB	B3	940	940 FORTRAN II COMPILER
901110			FORTRAN II REFERENCE MANUAL FOR XDS 940
			TIME SHARING COMPUTER SYSTEMS.
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM

870021AB	B3	940	940 DDT
901113			XDS 940 DDT REFERENCE MANUAL
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870022AB	B3	940	940 CONVERSATIONAL FORTRAN
870022-34B00	870025-35		SOURCE CARDS
870022-51B00	870025-55		LISTING PRINTED
870022-84B00	870025-85		ABSOLUTE BINARY CARDS
901115			FORTRAN IV REFERENCE MANUAL FOR XDS 940 TIME SHARING SYSTEM
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870023AB	B3	940	940 CAL
901114			XDS 940 CAL REFERENCE MANUAL
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870024AB	B3	940	940 BASIC
901111			XDS 940 BASIC REFERENCE MANUAL
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870025AB	B3	940	940 TSS MONITOR, EXEC, AND PROCESSORS (CO
870025-11B00			DESCRIPTION PRINTED
901116			TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
870026AA	B3	940	940 TSS USERS UTILITY PROGRAMS
870026-11A00			DESCRIPTION PRINTED
870026-35A00			SOURCE MAG TAPE, 7 CHANNELS
870027AB	B3	940	FORTRAN II LIBRARY FOR THE XDS 940
901110			FORTRAN II REFERENCE MANUAL FOR XDS 940
			TIME-SHARING COMPUTER SYSTEM
901142			XDS 940 FORTRAN II TECHNICAL NOTES
870028AB	B3	940	FORTRAN II RUNTIME SYSTEM
901110			FORTRAN II REFERENCE MANUTEMS TIME-SHARING COMPUTER SYSTEMS
901142			XDS 940 FORTRAN II TECHNICAL NOTES
870029AA	B3	940	OLDS3.0 CONTROL MONITOR
870029-11A00	901591		DESCRIPTION PRINTED
870029-35A00	870042-35		SOURCE MAG TAPE, 7 CHANNELS
870030AA	B3	940	UNIT 0 CPU TESTS 3.0
870030-11A00	901591		DESCRIPTION PRINTED
870030-35A00	870042-35		SOURCE MAG TAPE, 7 CHANNELS
870031AA	B3	940	UNIT 1 CPU EXERCISER 3.0
870031-11A00	901591		DESCRIPTION PRINTED
870031-35A00	870042-35		SOURCE MAG TAPE, 7 CHANNELS
870032AB	B3	940	UNIT 2 FLOATING POINT TESTS 3.0
870032-11B00	901591		DESCRIPTION PRINTED
870032-35B00	870042-35		SOURCE MAG TAPE, 7 CHANNELS
870033AA	B3	940	UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0
870033-11A00	901591		DESCRIPTION PRINTED
870033-35A00	870042-35		SOURCE MAG TAPE, 7 CHANNELS
870034AA	B3	940	UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0
870034-11A00	901591		DESCRIPTION PRINTED
870034-35A00	870042-35		SOURCE MAG TAPE, 7 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

870035AA	B3 940	UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0
870035-11A00	901591	DESCRIPTION PRINTED
870035-35A00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870036AB	B3 940	UNIT 12 E CHANNEL RAD TEST 3.0
870036-11B00	901591	DESCRIPTION PRINTED
870036-35B00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870037AA	B3 940	UNIT 15 W CHANNEL RAD TEST 3.0
870037-11A00	901591	DESCRIPTION PRINTED
870037-35A00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870038AA	B3 940	UNIT 21 W CHANNEL DISC TEST 3.0
870038-11A00	901591	DESCRIPTION PRINTED
870038-35A00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870039AA	B3 940	UNIT 23 CTE 10/11 COM GEAR TEST 3.0
870039-11A00	901591	DESCRIPTION PRINTED
870039-35A00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870040AB	B3 940	UNIT 18 E CHANNEL DISC
870040-11B00	901591	DESCRIPTION PRINTED
870040-35B00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870041AA	B3 940	UNIT 19 F CHANNEL DISC
870041-11A00	901591	DESCRIPTION PRINTED
870041-35A00	870042-35	SOURCE MAG TAPE, 7 CHANNELS
870042AA	B3 940	940 OLDS DIAGNOSTIC SYSTEM (COVER)
870042-11A00	901591	DESCRIPTION PRINTED
870042-35A00		SOURCE MAG TAPE, 7 CHANNELS
901591		XDS 940 OLDS DIAGNOSTIC SYSTEM REFERENCE MANUAL
880000AB	B1 CF-16	ASSEMBLER - ABLE
880000-11B00		DESCRIPTION PRINTED
880000-33B00		SOURCE PAPER TAPE, 8 LEVELS
880000-34B00		SOURCE CARDS
880000-43B00		COMPRESSED PAPER TAPE, 8 LEVELS
880000-51B00		LISTING PRINTED
880000-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880004AA	B1 CF-16	BINARY LOAD/DUMP - BLD/BDP
880004-11A00		DESCRIPTION PRINTED
880004-51A00	880004-11	LISTING PRINTED
880004-83A00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880005AB	B1 CF-16	RELOCATABLE OBJECT LANGUAGE LOADER-ROLL
880005-11B00		DESCRIPTION PRINTED
880005-33B00		SOURCE PAPER TAPE, 8 LEVELS
880005-34B00		SOURCE CARDS
880005-43B00		COMPRESSED PAPER TAPE, 8 LEVELS
880005-51B00		LISTING PRINTED
880005-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880006AB	B1 CF-16	DEBUG - DBUG
880006-11B00		DESCRIPTION PRINTED
880006-23B00		RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
880006-33B00		SOURCE PAPER TAPE, 8 LEVELS
880006-34B00		SOURCE CARDS
880006-51B00		LISTING PRINTED
880006-83B00		ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

880007AB	B1	CF-16	SOURCE TAPE PREPARATION - STP
880007-11B00			DESCRIPTION PRINTED
880007-33B00			SOURCE PAPER TAPE, 8 LEVELS
880007-34B00			SOURCE CARDS
880007-43B00			COMPRESSED PAPER TAPE, 8 LEVELS
880007-51B00			LISTING PRINTED
880007-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880008AA	B1	CF-16	TELETYPE UTILITY PACKAGE - TUP
880008-11A00			DESCRIPTION PRINTED
880008-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880008-51A00			LISTING PRINTED
880009AA	B1	CF-16	WORST PATTERN MEMORY DIAGNOSTIC - PMPM
880009-11A00			DESCRIPTION PRINTED
880009-51A00	880009-11		LISTING PRINTED
880009-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880011AA	B1	CF-16	CORE MEMORY DIAGNOSTIC - CMD
880011-11A00			DESCRIPTION PRINTED
880011-51A00	880011-11		LISTING PRINTED
880011-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880012AA	B1	CF-16	INSTRUCTION DIAGNOSTIC PROGRAM - IDP
880012-11A00			DESCRIPTION PRINTED
880012-51A00			LISTING PRINTED
880012-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880013AA	B1	CF-16	TELETYPE DIAGNOSTIC - TDP
880013-11A00			DESCRIPTION PRINTED
880013-51A00	880013-11		LISTING PRINTED
880013-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880014AA	B1	CF-16	HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD
880014-11A00			DESCRIPTION PRINTED
880014-33A00			SOURCE PAPER TAPE, 8 LEVELS
880014-34A00			SOURCE CARDS
880014-51A00			LISTING PRINTED
880014-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880015AA	B1	CF-16	M-1 MATH PACKAGE
880015-11A00			DESCRIPTION PRINTED
880015-33A00			SOURCE PAPER TAPE, 8 LEVELS
880015-34A00			SOURCE CARDS
880015-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880015-51A00			LISTING PRINTED
880016AA	B1	CF-16	M-2 MATH PACKAGE
880016-11A00			DESCRIPTION PRINTED
880016-33A00			SOURCE PAPER TAPE, 8 LEVELS
880016-34A00			SOURCE CARDS
880016-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880016-51A00			LISTING PRINTED
880018AA	B1	CF-16	FORTRAN COMPILER
880018-11A00			DESCRIPTION PRINTED
880018-34A00			SOURCE CARDS
880018-84A00			ABSOLUTE BINARY CARDS
880019AA	B1	CF-16	FOLL FORTRAN OBJECT LANGUAGE LOADER
880019-11A00			DESCRIPTION PRINTED
880019-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
880019-33A00			SOURCE PAPER TAPE, 8 LEVELS
880019-34A00			SOURCE CARDS
880019-51A00			LISTING PRINTED

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

880020AA	B1	CF-18	RTS RUN TIME SYSTEM
880020-11A00			DESCRIPTION PRINTED
880020-34A00			SOURCE CARDS
880020-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880020-51A00			LISTING PRINTED
880080AA	B1	CF-18	OE16D - OE16 DIAGNOSTIC
880080-11A00			DESCRIPTION PRINTED
880080-33A00			SOURCE PAPER TAPE, 8 LEVELS
880080-34A00			SOURCE CARDS
880080-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880085AA	B3	CF-18	CF-18 MINIDISC DIAGNOSTIC
880085-11A00			DESCRIPTION PRINTED
880085-44A00			COMPRESSED CARDS
880085-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880086AA	B1	CF-18	OE15/16 DEMONSTRATION PROGRAM
880086-11A00			DESCRIPTION PRINTED
880086-33A00			SOURCE PAPER TAPE, 8 LEVELS
880086-34A00			SOURCE CARDS
880086-51A00			LISTING PRINTED
880086-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880087AA	B1	CF-18	OE5/6D -- OE15-OE16 I/O HANDLER
880087-11A00			DESCRIPTION PRINTED
880087-33A00			SOURCE PAPER TAPE, 8 LEVELS
880087-34A00			SOURCE CARDS
880087-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880087-51A00			LISTING PRINTED
880088AA	B3	CF-18	SIGMA 3-CF18 INTERCOMMUNICATION DEMO
880088-11A00			DESCRIPTION PRINTED
880088-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
880088-44A00			COMPRESSED CARDS
880089AA	B1	CF-18	SIG16 - CF18 - SIGMA 3 DEMO
880089-11A00			DESCRIPTION PRINTED
880089-33A00			SOURCE PAPER TAPE, 8 LEVELS
880089-34A00			SOURCE CARDS
880089-51A00			LISTING PRINTED
880089-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880090AA	B1	CF-18	OE1410 -- OE14 I/O HANDLER
880090-11A00			DESCRIPTION PRINTED
880090-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880090-51A00			LISTING PRINTED
880091AA	B1	CF-18	OE14D - OE14 DIAGNOSTIC
880091-11A00			DESCRIPTION PRINTED
880091-51A00			LISTING PRINTED
880091-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880092AB	B1	CF-18	PE2010 - PE20 I/O DRIVER
880092-11B00			DESCRIPTION PRINTED
880092-43B00			COMPRESSED PAPER TAPE, 8 LEVELS
880092-51B00			LISTING PRINTED
880093AB	B1	CF-18	PE20FD - PE20 FIELD DIAGNOSTIC
880093-11B00			DESCRIPTION PRINTED
880093-51B00			LISTING PRINTED
880093-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS

880094AB	B1	CF-16	PE20MD - PE20 MANUFACTURING DIAGNOSTIC
880094-11800			DESCRIPTION PRINTED
880094-51800			LISTING PRINTED
880094-83800			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880095AB	B1	CF-16	PE2510 - PE25 I/O HANDLER
880095-11800			DESCRIPTION PRINTED
880095-43800			COMPRESSED PAPER TAPE, 8 LEVELS
880095-51800	880095-11		LISTING PRINTED
880096AA	B1	CF-16	PE25FD - PE25 FIELD DIAGNOSTIC
880096-11A00			DESCRIPTION PRINTED
880096-51A00			LISTING PRINTED
880096-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880098AA	B1	CF-16	CROSS ASSM. OBJECT CONVERTER - CROSCNV
880098-11A00			DESCRIPTION PRINTED
880098-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880099AA	B1	CF-16	CROLL
880099-11A00			DESCRIPTION PRINTED
880099-43A00			COMPRESSED PAPER TAPE, 8 LEVELS
880099-51A00			LISTING PRINTED
880100AB	B1	CF-16	ANALOG PERFORMANCE TEST - APT
880100-11800			DESCRIPTION PRINTED
880100-33800			SOURCE PAPER TAPE, 8 LEVELS
880100-34800			SOURCE CARDS
880100-51800			LISTING PRINTED
880100-83800			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880500AC	B1	XEROX 1200	PRINTER CONTROL PROGRAM (PCP)
880500-11801			DESCRIPTION PRINTED
880500-71800			TEST DESCRIPTION
880500-76800			TEST ON TAPE
880500-86801			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880500-91801			DOCUMENTATION FOR STAND-ALONE DUMP
880500-96801			STAND-ALONE DUMP TAPE
901981			XEROX 1200 COMP.PRINT. SYSTEM PROGRAMMERS REFERENCE CARD
901982			XEROX 1200 COMPUTER PRINTING SYSTEM OPERATORS GUIDE
901983			XEROX 1200 COMPUTER PRINTING SYSTEM GENERAL REFERENCE MANUA
903039			XEROX 1200 COMPUTER PRINTING SYSTEM OPERATORS REFERENCE CAR
880502AC	B1	XEROX 1200	PCP LOADER & INITIALIZATION PROG. MODULE
880502-11801	880500-11		DESCRIPTION PRINTED
880502-51801	880500-51		LISTING PRINTED
880502-56801	880500-56		LISTING MAG TAPE, 9 CHANNELS
880502-86801	880500-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880503AC	B1	XEROX 1200	PRINTER CONTROL PROGRAM MODULE
880503-11801	880500-11		DESCRIPTION PRINTED
880503-51801	880500-51		LISTING PRINTED
880503-56801	880500-56		LISTING MAG TAPE, 9 CHANNELS
880503-86801	880500-86		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

880505AA	B1	XEROX 1200	EXTENDED PRINTER CONTROL PROGRAM (EPCP)
880505-11A00			DESCRIPTION PRINTED
880505-71A00			SYSTEM TEST TAPE DESCRIPTION
880505-76A00			SYSTEM TEST TAPE
880505-86A00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880505-91A00			STAND-ALONE DUMP DESCRIPTION
880505-96A00			STAND-ALONE DUMP TAPE
901981			XEROX 1200 PCP REFERENCE CARD
901982			XEROX 1200 PCP OPERATOR'S GUIDE
901983			XEROX 1200 PCP GENERAL REFERENCE MANUAL
903039			XEROX 1200 PCP OPERATOR'S REFERENCE CARD
903121			XEROX 1200 EPCP GENERAL REFERENCE MANUAL
903122			XEROX 1200 EPCP OPERATOR'S GUIDE
903123			XEROX 1200 EPCP OPERATOR'S REFERENCE CARD
903124			XEROX 1200 COMPUTER PRINTING SYSTEM OPERATOR REFERENCE CARD
880550AD	B1	XEROX 1200	DIAGNOSTIC SOFTWARE SYSTEM (DSS)
880550-11B02			DESCRIPTION PRINTED
880550-16B02			PROLOG DESCRIPTION OF DSS MODULES
880550-56B02			LISTING MAG TAPE, 9 CHANNELS
880550-86B02			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880551AC	B1	XEROX 1200	READ ONLY MEMORY BOOTSTRAP LOADER
880551-11B01		880550-11	DESCRIPTION PRINTED
880551-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880552AC	B1	XEROX 1200	MODULE 1. DSS SUPERVISOR
880552-11B01		880550-11	DESCRIPTION PRINTED
880552-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880552-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880553AC	B1	XEROX 1200	MODULE 2. BASIC CPU TEST
880553-11B01		880550-11	DESCRIPTION PRINTED
880553-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880553-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880554AC	B1	XEROX 1200	MODULE 3. TCI FUNCTIONAL TEST
880554-11B01		880550-11	DESCRIPTION PRINTED
880554-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880554-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880555AC	B1	XEROX 1200	MODULE 4. TCI RANDOM EXERCISER
880555-11B01		880550-11	DESCRIPTION PRINTED
880555-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880555-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880556AC	B1	XEROX 1200	MODULE 5. PSCI FUNCTIONAL TEST
880556-11B01		880550-11	DESCRIPTION PRINTED
880556-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880556-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880557AC	B1	XEROX 1200	MODULE 6. PSCI UTILITY TEST
880557-11B01		880550-11	DESCRIPTION PRINTED
880557-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880557-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880558AC	B1	XEROX 1200	MODULE 7. CONTROL PANEL TEST
880558-11B01		880550-11	DESCRIPTION PRINTED
880558-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880558-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880559AC	B1	XEROX 1200	MODULE 8. EXTENDED CPU INSTRUCTION TEST
880559-11B01		880550-11	DESCRIPTION PRINTED
880559-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880559-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

880567AC	B1	XEROX 1200	TMTD TEST MONITOR/TEST DRIVER
880567-11B01		880550-11	DESCRIPTION PRINTED
880567-56B01		880550-56	LISTING MAG TAPE, 9 CHANNELS
880567-86B01		880550-86	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
880600AB	B1	XEROX SCU	SCU LOADER PROGRAM (SCULE)
880600-11B01			DESCRIPTION PRINTED
880600-44B01			COMPRESSED CARDS
880600-83B01			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
900954			SIGMA 5/7 XEROX BATCH PROCESSING MONITOR MANUAL (BPM)
880601AA	B1	XEROX SCU	PROTOTYPE SCU FIELD VERIFICATION PROGRAM
880601-11A00			DESCRIPTION PRINTED
880601-44A00			COMPRESSED CARDS
880601-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880601-84A00			ABSOLUTE BINARY CARDS
880602AB	B2	XEROX SCU	SCU MODULE TEST ROUTINES
880602-11B00			DESCRIPTION PRINTED
880602-44B00			COMPRESSED CARDS
880602-83B00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880602-84B00			ABSOLUTE BINARY CARDS
880603AB	B1	XEROX SCU	SCU BOOTSTRAP/ABSOLUTE LOADER
880603-11A01			DESCRIPTION PRINTED
880605AC	B3	XEROX SCU	SCU DEBUG PROGRAM
880605-11B01			DESCRIPTION PRINTED
880605-44B01			COMPRESSED CARDS
880605-84B01			ABSOLUTE BINARY CARDS
880608AA	B1	XEROX SCU	SCU FIELD VERIFICATION PROGRAM
880608-11A00			DESCRIPTION PRINTED
880608-44A00			COMPRESSED CARDS
880608-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880608-84A00			ABSOLUTE BINARY CARDS
880607AB	B3	XEROX SCU	SC411 DIAGNOSTIC PROGRAM
880607-11A01			DESCRIPTION PRINTED
880607-44A00			COMPRESSED CARDS
880607-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880607-84A00			ABSOLUTE BINARY CARDS
880608AA	B3	XEROX SCU	SCU-VECTOR GENERAL INTERFACE DIAGNOSTIC
880608-11A00			DESCRIPTION PRINTED
880608-44A00			COMPRESSED CARDS
880608-84A00			ABSOLUTE BINARY CARDS
880609AA	B3	XEROX SCU	SCU ROM VERIFICATION PROGRAM
880609-11A00			DESCRIPTION PRINTED
880609-44A00			COMPRESSED CARDS
880609-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880609-84A00			ABSOLUTE BINARY CARDS
880610AA	B3	XEROX SCU	SCU - MFG ACCEPTANCE TEST SYSTEM
880610-11A00			DESCRIPTION PRINTED
880610-44A00			COMPRESSED CARDS
880610-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880610-84A00			ABSOLUTE BINARY CARDS
880611AA	B1	XEROX SCU	SCU/NBDE IOS 10 CONTROL PROGRAM
880611-11A00			DESCRIPTION PRINTED
880611-44A00			COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

880613AA	B3	XEROX SCU	SCU - DIABLO DISK DIAGNOSTIC
880613-11A00			DESCRIPTION PRINTED
880613-44A00			COMPRESSED CARDS
880613-84A00			ABSOLUTE BINARY CARDS
880614AA	B3	XEROX SCU	HITYPE PRINTER DIAGNOSTIC PROGRAM
880614-11A00			DESCRIPTION PRINTED
880614-44A00			COMPRESSED CARDS
880614-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880614-84A00			ABSOLUTE BINARY CARDS
880615AA	B3	XEROX SCU	HITYPE HANDLER
880615-11A00			DESCRIPTION PRINTED
880615-44A00			COMPRESSED CARDS
880615-84A00			ABSOLUTE BINARY CARDS
880616AA	B3	XEROX SCU	COLOR DISPLAY SYSTEM DIAONOSTIC PROGRAM
880616-11A00			DESCRIPTION PRINTED
880616-44A00			COMPRESSED CARDS
880616-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880616-84A00			ABSOLUTE BINARY CARDS
880617AA	B3	XEROX SCU	ALFA EMULATOR PROGRAM
880617-11A00			DESCRIPTION PRINTED
880617-44A00			COMPRESSED CARDS
880617-83A00			ABSOLUTE BINARY PAPER TAPE, 8 LEVELS
880617-84A00			ABSOLUTE BINARY CARDS
880618AA	B3	XEROX SCU	SCU NBDE - COIN SLIM FIELD VERIFICATION
880618-11A00			DESCRIPTION PRINTED
880618-44A00			COMPRESSED CARDS
880618-84A00			ABSOLUTE BINARY CARDS
880619AA	B3	XEROX SCU	XST PORTACORDER TO SCU DRIVER
880619-11A00			DESCRIPTION PRINTED
880619-44A00			COMPRESSED CARDS
880619-84A00			ABSOLUTE BINARY CARDS
880620AA	B3	XEROX SCU	SC433/43-44 DISK DRIVER FOR SCU
880620-11A00			DESCRIPTION PRINTED
880620-44A00			COMPRESSED CARDS
880620-84A00			ABSOLUTE BINARY CARDS
880621AA	B3	XEROX SCU	KEYBOARD/DISPLAY DRIVER FOR XST
880621-11A00			DESCRIPTION PRINTED
880621-44A00			COMPRESSED CARDS
880621-84A00			ABSOLUTE BINARY CARDS
880622AA	B3	XEROX SCU	XST STENOYPER TO SCU DIAGNOSTIC
880622-11A00			DESCRIPTION PRINTED
880622-44A00			COMPRESSED CARDS
880622-84A00			ABSOLUTE BINARY CARDS
880623AA	B3	XEROX SCU	XST STENOYPER TO SCU DRIVER
880623-11A00			DESCRIPTION PRINTED
880623-44A00			COMPRESSED CARDS
880623-84A00			ABSOLUTE BINARY CARDS
880624AA	B3	XEROX SCU	XST CASSETTE TAPE TO SCU DIAGNOSTIC
880624-11A00			DESCRIPTION PRINTED
880624-44A00			COMPRESSED CARDS
880624-84A00			ABSOLUTE BINARY CARDS

880625AA	B3	XEROX	SCU	SYNCHRONOUS LINE INTRFACE MODULE TEST
880625-11A00				DESCRIPTION PRINTED
880625-44A00				COMPRESSED CARDS
880625-84A00				ABSOLUTE BINARY CARDS
880626AA	B3	SIGMA	5-9	SCU ASSEMBLER LIBRARY ROUTINES
880626-11A00				DESCRIPTION PRINTED
880626-44A00				COMPRESSED CARDS
880627AA	B1	XEROX	SCU	RELOCATABLE SCU LOADER PROGRAM (RSCULE)
880627-11A00				DESCRIPTION PRINTED
880627-23A00				RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
880627-44A00				COMPRESSED CARDS
880628AA	B3	XEROX	SCU	SCU FUNCTION GENERATOR PROGRAM
880628-11A00				DESCRIPTION PRINTED
880628-34A00				SOURCE CARDS
880628-44A00				COMPRESSED CARDS
880816AA	B1	SIGMA	2/3-530	UNLABELED SOFTWARE SUPPORT TAPE (SST)
880816-06A00				SOFTWARE SUPPORT TAPE
880816-11A00				DESCRIPTION PRINTED
880830AA	B1	SIGMA	5-9/550/560	UNLABELED SOFTWARE SUPPORT TAPE (SST)
880830-06A00	880816-06			SOFTWARE SUPPORT TAPE
880830-11A00	880816-11			DESCRIPTION PRINTED
880832AA	B1	SIGMA	5-9/550/560	LABELED SOFTWARE SUPPORT TAPE (SST)
880832-06A00				SOFTWARE SUPPORT TAPE
880832-11A00				DESCRIPTION PRINTED
890000AB	B3	SIGMA	5/7	XDS NUMERICAL SUBROUTINE PACKAGE (COVER)
890000-11A00	901505			DESCRIPTION PRINTED
890000-36B00				SOURCE MAG TAPE, 9 CHANNELS
890143AB	B3	SIGMA	5-9	ROM BREAKDOWN TRANSLATOR (ROMBUST)
890143-11B00				DESCRIPTION PRINTED
890143-24B00				RELOCATABLE BINARY CARDS
890143-44B00				COMPRESSED CARDS
890144AA	B3	SIGMA	5/7	SYMMETRIC LIST PROCESSOR (32K)
890144-11A00				DESCRIPTION PRINTED
890144-24A00				RELOCATABLE BINARY CARDS
890144-34A00				SOURCE CARDS
890144-36A00				SOURCE MAG TAPE, 9 CHANNELS
890145AA	B3	SIGMA	5/7	SYMMETRIC LIST PROCESSOR (OVER 32K)
890145-11A00				DESCRIPTION PRINTED
890145-24A00				RELOCATABLE BINARY CARDS
890145-34A00				SOURCE CARDS
890145-36A00				SOURCE MAG TAPE, 9 CHANNELS
890146AA	B3	SIGMA	5/7	SIGMA 5/7 MFOR LINEAR PROGRAMMING CODE
890146-11A00				DESCRIPTION PRINTED
890146-36A00				SOURCE MAG TAPE, 9 CHANNELS
890147AA	B3	SIGMA	5/7	BATCH MONITOR CROSS REFERENCE GENERATOR
890147-11A00				DESCRIPTION PRINTED
890147-34A00				SOURCE CARDS
890147-51A00	890147-11			LISTING PRINTED

890157AA	B3	SIGMA 5/7	CROSS REFERENCE SYMBOL LISTING PROG.
890157-11A00			DESCRIPTION PRINTED
890157-24A00			RELOCATABLE BINARY CARDS
890157-34A00			SOURCE CARDS
890158AA	B3	9-SERIES	ARCSIN AND ARCCOS FUNCTIONS
890158-11A00			DESCRIPTION PRINTED
890158-32A00			SOURCE PAPER TAPE, 7 LEVELS
890158-34A00			SOURCE CARDS
890159AA	B3	9-SERIES	FACTORIAL ROUTINE
890159-11A00			DESCRIPTION PRINTED
890159-32A00			SOURCE PAPER TAPE, 7 LEVELS
890159-34A00			SOURCE CARDS
890160AA	B3	9-SERIES	HYPERBOLIC SINE, COSINE AND TANGENT
890160-11A00			DESCRIPTION PRINTED
890160-32A00			SOURCE PAPER TAPE, 7 LEVELS
890160-34A00			SOURCE CARDS
890161AA	B3	9-SERIES	POLYNOMIAL ADDITION OR SUBTRACTION
890161-11A00			DESCRIPTION PRINTED
890161-32A00			SOURCE PAPER TAPE, 7 LEVELS
890161-34A00			SOURCE CARDS
890162AA	B3	9-SERIES	POLYNOMIAL PRODUCT
890162-11A00			DESCRIPTION PRINTED
890162-32A00			SOURCE PAPER TAPE, 7 LEVELS
890162-34A00			SOURCE CARDS
890163AA	B3	9-SERIES	POLYNOMIAL DIVISION, POLYDIV
890163-11A00			DESCRIPTION PRINTED
890163-32A00			SOURCE PAPER TAPE, 7 LEVELS
890163-34A00			SOURCE CARDS
890164AA	B3	9-SERIES	LINEAR POLYNOMIAL SUBSTITUTION. POLYSUBS
890164-11A00			DESCRIPTION PRINTED
890164-32A00			SOURCE PAPER TAPE, 7 LEVELS
890164-34A00			SOURCE CARDS
890165AA	B3	9-SERIES	RATIONAL POLYNOMIAL SUBSTITUTION
890165-11A00			DESCRIPTION PRINTED
890165-32A00			SOURCE PAPER TAPE, 7 LEVELS
890165-34A00			SOURCE CARDS
890166AA	B3	9-SERIES	SERIES EXPANSION OF RATIONAL POLYNOMIAL
890166-11A00			DESCRIPTION PRINTED
890166-32A00			SOURCE PAPER TAPE, 7 LEVELS
890166-34A00			SOURCE CARDS
890167AA	B3	9-SERIES	CLIMB1 A HILL-CLIMBING SUBROUTINE
890167-11A00			DESCRIPTION PRINTED
890167-32A00			SOURCE PAPER TAPE, 7 LEVELS
890167-34A00			SOURCE CARDS
890168AA	B3	9-SERIES	PATTERN OPTIMIZER
890168-11A00			DESCRIPTION PRINTED
890168-32A00			SOURCE PAPER TAPE, 7 LEVELS
890168-34A00			SOURCE CARDS

890169AA	B3	9-SERIES	BAIRSTOW ROOTFINDER
890169-11A00			DESCRIPTION PRINTED
890169-32A00			SOURCE PAPER TAPE, 7 LEVELS
890169-34A00			SOURCE CARDS
890170AA	B3	9-SERIES	ROOTS OF POLYNOMIALS
890170-11A00			DESCRIPTION PRINTED
890170-32A00			SOURCE PAPER TAPE, 7 LEVELS
890170-34A00			SOURCE CARDS
890171AA	B3	9-SERIES	ROOTBIS, ROOTFINDING BY BISECTION
890171-11A00			DESCRIPTION PRINTED
890171-32A00			SOURCE PAPER TAPE, 7 LEVELS
890171-34A00			SOURCE CARDS
890172AA	B3	9-SERIES	LEGENDRE POLYNOMIAL
890172-11A00			DESCRIPTION PRINTED
890172-32A00			SOURCE PAPER TAPE, 7 LEVELS
890172-34A00			SOURCE CARDS
890173AA	B3	9-SERIES	GAMMA FUNCTION
890173-11A00			DESCRIPTION PRINTED
890173-32A00			SOURCE PAPER TAPE, 7 LEVELS
890173-34A00			SOURCE CARDS
890174AA	B3	9-SERIES	BESSEL FUNCTION J0, J1 Y0, Y1
890174-11A00			DESCRIPTION PRINTED
890174-32A00			SOURCE PAPER TAPE, 7 LEVELS
890174-34A00			SOURCE CARDS
890175AA	B3	9-SERIES	REAL EXPONENTIAL INTEGRAL
890175-11A00			DESCRIPTION PRINTED
890175-32A00			SOURCE PAPER TAPE, 7 LEVELS
890175-34A00			SOURCE CARDS
890176AA	B3	9-SERIES	BESSEL FUNCTION KN(X),
890176-11A00			DESCRIPTION PRINTED
890176-32A00			SOURCE PAPER TAPE, 7 LEVELS
890176-34A00			SOURCE CARDS
890177AA	B3	9-SERIES	BESSEL FUNCTION-FIRST KIND, ORDER ZERO
890177-11A00			DESCRIPTION PRINTED
890177-32A00			SOURCE PAPER TAPE, 7 LEVELS
890177-34A00			SOURCE CARDS
890178AA	B3	9-SERIES	BESSEL FUNCTION SUBROUTINE
890178-11A00			DESCRIPTION PRINTED
890178-32A00			SOURCE PAPER TAPE, 7 LEVELS
890178-34A00			SOURCE CARDS
890179AA	B3	9-SERIES	BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1
890179-11A00			DESCRIPTION PRINTED
890179-34A00			SOURCE CARDS
890180AA	B3	9-SERIES	GRADIENT MINIMIZATION ROUTINE - FPMIN
890180-11A00			DESCRIPTION PRINTED
890180-32A00			SOURCE PAPER TAPE, 7 LEVELS
890180-34A00			SOURCE CARDS
890181AA	B3	9-SERIES	DEFINITE INTEGRAL EVALUATION
890181-11A00			DESCRIPTION PRINTED
890181-32A00			SOURCE PAPER TAPE, 7 LEVELS
890181-34A00			SOURCE CARDS

890182AA	B3	9-SERIES	DOUBLE INTEGRATION BY SIMPSONS
890182-11A00			DESCRIPTION PRINTED
890182-32A00			SOURCE PAPER TAPE, 7 LEVELS
890182-34A00			SOURCE CARDS
890183AA	B3	9-SERIES	RUNGE-KUTTA INTEGRATION
890183-11A00			DESCRIPTION PRINTED
890183-32A00			SOURCE PAPER TAPE, 7 LEVELS
890183-34A00			SOURCE CARDS
890184AA	B3	9-SERIES	SOLUTION OF DIFFERENTIAL EQUATIONS R-K-0
890184-11A00			DESCRIPTION PRINTED
890184-32A00			SOURCE PAPER TAPE, 7 LEVELS
890184-34A00			SOURCE CARDS
890185AA	B3	9-SERIES	LAGRANGE INTERPOLATION
890185-11A00			DESCRIPTION PRINTED
890185-32A00			SOURCE PAPER TAPE, 7 LEVELS
890185-34A00			SOURCE CARDS
890186AA	B3	9-SERIES	POLYNOMIAL CURVE FIT
890186-11A00			DESCRIPTION PRINTED
890186-32A00			SOURCE PAPER TAPE, 7 LEVELS
890186-34A00			SOURCE CARDS
890187AA	B3	9-SERIES	LEAST SQUARES POLYNOMIAL
890187-11A00			DESCRIPTION PRINTED
890187-32A00			SOURCE PAPER TAPE, 7 LEVELS
890187-34A00			SOURCE CARDS
890188AA	B3	9-SERIES	FOURIER COEFFICIENTS PERIODIC FUNCTIONS
890188-11A00			DESCRIPTION PRINTED
890188-32A00			SOURCE PAPER TAPE, 7 LEVELS
890189AA	B3	9-SERIES	FREQUENCY BY PRONY'S METHOD
890189-11A00			DESCRIPTION PRINTED
890189-32A00			SOURCE PAPER TAPE, 7 LEVELS
890189-34A00			SOURCE CARDS
890190AA	B3	9-SERIES	SINE WAVE MONITOR
890190-11A00			DESCRIPTION PRINTED
890190-32A00			SOURCE PAPER TAPE, 7 LEVELS
890190-34A00			SOURCE CARDS
890191AA	B3	9-SERIES	CURVE/SURFACE FIT ARBITRARY FUNCTION
890191-11A00			DESCRIPTION PRINTED
890191-34A00			SOURCE CARDS
890192AA	B3	9-SERIES	NON-LINEAR CURVE FIT PROGRAM
890192-11A00			DESCRIPTION PRINTED
890192-32A00			SOURCE PAPER TAPE, 7 LEVELS
890192-34A00			SOURCE CARDS
890193AA	B3	9-SERIES	MATRIX MULTIPLICATION
890193-11A00			DESCRIPTION PRINTED
890193-32A00			SOURCE PAPER TAPE, 7 LEVELS
890193-34A00			SOURCE CARDS
890194AA	B3	9-SERIES	REAL MATRIX INVERSION (RMINV)
890194-11A00			DESCRIPTION PRINTED
890194-32A00			SOURCE PAPER TAPE, 7 LEVELS
890194-34A00			SOURCE CARDS

890195AA	B3	9-SERIES	REAL MATRIX MULTIPLY (RMMUL)
890195-11A00			DESCRIPTION PRINTED
890195-32A00			SOURCE PAPER TAPE, 7 LEVELS
890195-34A00			SOURCE CARDS
890196AA	B3	9-SERIES	REAL MATRIX TRANSPOSE (RMTRA)
890196-11A00			DESCRIPTION PRINTED
890196-32A00			SOURCE PAPER TAPE, 7 LEVELS
890196-34A00			SOURCE CARDS
890197AA	B3	9-SERIES	REAL MATRIX ADDITION (RMADD)
890197-11A00			DESCRIPTION PRINTED
890197-32A00			SOURCE PAPER TAPE, 7 LEVELS
890197-34A00			SOURCE CARDS
890198AA	B3	9-SERIES	REAL MATRIX SUBTRACTION(RMSUB)
890198-11A00			DESCRIPTION PRINTED
890198-32A00			SOURCE PAPER TAPE, 7 LEVELS
890198-34A00			SOURCE CARDS
890199AA	B3	9-SERIES	BOOLEAN MATRIX (FLAG PACKING)
890199-11A00			DESCRIPTION PRINTED
890199-32A00			SOURCE PAPER TAPE, 7 LEVELS
890199-34A00			SOURCE CARDS
890200AA	B3	9-SERIES	DETERMINANT EVALUATION
890200-11A00			DESCRIPTION PRINTED
890200-32A00			SOURCE PAPER TAPE, 7 LEVELS
890200-34A00			SOURCE CARDS
890201AA	B3	9-SERIES	MATRIX INVERSION, DETERMINANT CALCULATION
890201-11A00			DESCRIPTION PRINTED
890201-32A00			SOURCE PAPER TAPE, 7 LEVELS
890201-34A00			SOURCE CARDS
890202AA	B3	9-SERIES	SOLUTION OF SIMULTANEOUS EQUATIONS
890202-11A00			DESCRIPTION PRINTED
890202-32A00			SOURCE PAPER TAPE, 7 LEVELS
890202-34A00			SOURCE CARDS
890203AA	B3	9-SERIES	PRINCIPAL AXES FACTOR ANALYSIS
890203-11A00			DESCRIPTION PRINTED
890203-32A00			SOURCE PAPER TAPE, 7 LEVELS
890203-34A00			SOURCE CARDS
890204AA	B3	9-SERIES	MATRIX PACKAGE FOR ARITHMETIC OPERATIONS
890204-11A00			DESCRIPTION PRINTED
890204-32A00			SOURCE PAPER TAPE, 7 LEVELS
890204-34A00			SOURCE CARDS
890205AA	B3	9-SERIES	GAUSSIAN NORMAL PROBABILITY ORDINATE
890205-11A00			DESCRIPTION PRINTED
890205-32A00			SOURCE PAPER TAPE, 7 LEVELS
890205-34A00			SOURCE CARDS
890206AA	B3	9-SERIES	GAUSSIAN NORMAL PROBABILITY INTEGRAL
890206-11A00			DESCRIPTION PRINTED
890206-32A00			SOURCE PAPER TAPE, 7 LEVELS
890206-34A00			SOURCE CARDS

890207AA	B3	9-SERIES	SUPERCOMPRESSIBILITY FACTORS NATURAL GAS
890207-11A00			DESCRIPTION PRINTED
890207-32A00			SOURCE PAPER TAPE, 7 LEVELS
890207-34A00			SOURCE CARDS
890208AA	B3	9-SERIES	MULTIPLE LINEAR REGRESSION
890208-11A00			DESCRIPTION PRINTED
890208-32A00			SOURCE PAPER TAPE, 7 LEVELS
890208-34A00			SOURCE CARDS
890209AA	B3	9-SERIES	LEAST SQUARE SUBROUTINE, LSQ
890209-11A00			DESCRIPTION PRINTED
890209-32A00			SOURCE PAPER TAPE, 7 LEVELS
890209-34A00			SOURCE CARDS
890210AA	B3	9-SERIES	PSEUDO-RANDOM NUMBER SUBROUTINE (1RAND)
890210-11A00			DESCRIPTION PRINTED
890210-32A00			SOURCE PAPER TAPE, 7 LEVELS
890210-34A00			SOURCE CARDS
890211AA	B3	9-SERIES	RANDOM NUMBER GENERATOR
890211-11A00			DESCRIPTION PRINTED
890211-32A00			SOURCE PAPER TAPE, 7 LEVELS
890211-34A00			SOURCE CARDS
890212AA	B3	9-SERIES	RANDOM NUMBER GENERATOR, RANDU
890212-11A00			DESCRIPTION PRINTED
890212-32A00			SOURCE PAPER TAPE, 7 LEVELS
890212-34A00			SOURCE CARDS
890213AA	B3	9-SERIES	UNCORRELATED RANDOM NUMBER GENERATOR
890213-11A00			DESCRIPTION PRINTED
890213-32A00			SOURCE PAPER TAPE, 7 LEVELS
890213-34A00			SOURCE CARDS
890214AA	B3	9-SERIES	PSEUDO-RANDOM NUMBER GENERATOR (RANDX)
890214-11A00			DESCRIPTION PRINTED
890214-32A00			SOURCE PAPER TAPE, 7 LEVELS
890214-34A00			SOURCE CARDS
890215AA	B3	9-SERIES	PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)
890215-11A00			DESCRIPTION PRINTED
890215-32A00			SOURCE PAPER TAPE, 7 LEVELS
890215-34A00			SOURCE CARDS
890217AA	B3	9-SERIES	LINEAR REGRESSION ANALYSIS
890217-11A00			DESCRIPTION PRINTED
890217-32A00			SOURCE PAPER TAPE, 7 LEVELS
890217-34A00			SOURCE CARDS
890219AA	B3	9-SERIES	FORTRAN II MAGNETIC TAPE I/O ROUTINE
890219-11A00			DESCRIPTION PRINTED
890219-34A00			SOURCE CARDS
890220AA	B3	9-SERIES	READ BLOCKED INPUT FROM MAG. TAPE
890220-11A00			DESCRIPTION PRINTED
890220-32A00			SOURCE PAPER TAPE, 7 LEVELS
890220-34A00			SOURCE CARDS
890221AA	B3	9-SERIES	CONVOLUTION & FILTERING UNIT I/O ROUTINE
890221-11A00			DESCRIPTION PRINTED
890221-34A00			SOURCE CARDS

890222AA	B3	9-SERIES	CONVOLUTION,CORR,FILTER., OF TIME SERIES
890222-11A00			DESCRIPTION PRINTED
890222-34A00			SOURCE CARDS
890223AA	B3	9-SERIES	BLANK PAPER TAPE LEADER GENERATOR
890223-11A00			DESCRIPTION PRINTED
890223-32A00			SOURCE PAPER TAPE, 7 LEVELS
890223-34A00			SOURCE CARDS
890224AA	B3	9-SERIES	FAST FORTRAN PRINT SUBROUTINE
890224-11A00			DESCRIPTION PRINTED
890224-32A00			SOURCE PAPER TAPE, 7 LEVELS
890224-34A00			SOURCE CARDS
890225AA	B3	9-SERIES	OSCILLOSCOPE DISPLAY ROUTINE
890225-11A00			DESCRIPTION PRINTED
890225-32A00			SOURCE PAPER TAPE, 7 LEVELS
890225-34A00			SOURCE CARDS
890226AA	B3	9-SERIES	PLOT PACKAGE FOR XDS 9175 PLOTTER
890226-11A00			DESCRIPTION PRINTED
890226-34A00			SOURCE CARDS
890227AA	B3	9-SERIES	SCOOP TAPE PLOTTING ROUTINE, SCOPL-2
890227-11A00			DESCRIPTION PRINTED
890227-32A00			SOURCE PAPER TAPE, 7 LEVELS
890227-34A00			SOURCE CARDS
890228AA	B3	9-SERIES	GENERAL GRAPHIC GENERA-PLOTTERTER
890228-11A00			DESCRIPTION PRINTED
890228-32A00			SOURCE PAPER TAPE, 7 LEVELS
890228-34A00			SOURCE CARDS
890228-84A00			ABSOLUTE BINARY CARDS
890229AA	B3	9-SERIES	ON-LINE PRINT ROUTINE,PRNLN
890229-11A00			DESCRIPTION PRINTED
890229-42A00			COMPRESSED PAPER TAPE, 7 LEVELS
890229-44A00			COMPRESSED CARDS
890232AA	B3	9-SERIES	PLOT PACKAGE WITH LABELING
890232-11A00			DESCRIPTION PRINTED
890232-34A00			SOURCE CARDS
890233AA	B3	9-SERIES	SEMI-LOG/LINEAR PLOT PACKAGE
890233-11A00			DESCRIPTION PRINTED
890233-34A00			SOURCE CARDS
890234AA	B3	9-SERIES	PLOT PACKAGE SPECIAL CHART A03
890234-11A00			DESCRIPTION PRINTED
890234-34A00			SOURCE CARDS
890235AA	B3	9-SERIES	PLOT PACKAGE - NON-LABELING
890235-11A00			DESCRIPTION PRINTED
890235-34A00			SOURCE CARDS
890236AA	B3	9-SERIES	POLAR PLOT PACKAGE
890236-11A00			DESCRIPTION PRINTED
890236-34A00			SOURCE CARDS

890237AA	B3	9-SERIES	CALCOMP PLOTTER SUBROUTINE PACKAGE
890237-11A00			DESCRIPTION PRINTED
890237-24A00			RELOCATABLE BINARY CARDS
890237-32A00			SOURCE PAPER TAPE, 7 LEVELS
890237-34A00			SOURCE CARDS
890239AA	B3	9-SERIES	CORE DUMP TO MAGNETIC TAPE PROGRAM
890239-11A00			DESCRIPTION PRINTED
890239-32A00			SOURCE PAPER TAPE, 7 LEVELS
890239-34A00			SOURCE CARDS
890240AA	B3	9-SERIES	CORE DUMP TO UNBUFFERED LINEPRINTER
890240-11A00			DESCRIPTION PRINTED
890240-32A00			SOURCE PAPER TAPE, 7 LEVELS
890240-34A00			SOURCE CARDS
890241AA	B3	9-SERIES	FORTRAN CALCOMP PLOTTER ROUTINE
890241-11A00			DESCRIPTION PRINTED
890241-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
890241-24A00			RELOCATABLE BINARY CARDS
890242AA	B3	9300	OSCILLOSCOPE DISPLAY ROUTINE
890242-11A00			DESCRIPTION PRINTED
890242-32A00			SOURCE PAPER TAPE, 7 LEVELS
890242-34A00			SOURCE CARDS
890243AA	B3	9-SERIES	XDS 920/930 SYMBOL MNEMONIC TABLE
890243-11A00			DESCRIPTION PRINTED
890243-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
890243-24A00			RELOCATABLE BINARY CARDS
890243-34A00			SOURCE CARDS
890244AA	B3	9-SERIES	COMPUTER ASSEMBLY PROGRAM FOR 2K-910
890244-11A00			DESCRIPTION PRINTED
890244-32A00			SOURCE PAPER TAPE, 7 LEVELS
890245AA	B3	9-SERIES	AC-DC CIRCUIT ANALYSIS COMPILER
890245-11A00			DESCRIPTION PRINTED
890245-32A00			SOURCE PAPER TAPE, 7 LEVELS
890246AA	B3	9-SERIES	MONITOR INPUT/OUTPUT PACKAGE-QUINOUT
890246-11A00			DESCRIPTION PRINTED
890246-34A00			SOURCE CARDS
890247AA	B3	9-SERIES	FORTRAN SEARCH ARRAY
890247-11A00			DESCRIPTION PRINTED
890247-32A00			SOURCE PAPER TAPE, 7 LEVELS
890248AA	B3	9-SERIES	SORT SUBROUTINE
890248-11A00			DESCRIPTION PRINTED
890248-32A00			SOURCE PAPER TAPE, 7 LEVELS
890248-34A00			SOURCE CARDS
890249AA	B3	9-SERIES	EDIT, CHARACTER STREAM EDITING PROGRAM
890249-11A00			DESCRIPTION PRINTED
890249-32A00			SOURCE PAPER TAPE, 7 LEVELS
890249-34A00			SOURCE CARDS
890250AA	B3	9-SERIES	LABEL TRACE ROUTINE, L-FORTRANRAN
890250-11A00			DESCRIPTION PRINTED
890250-32A00			SOURCE PAPER TAPE, 7 LEVELS
890250-34A00			SOURCE CARDS

890251AA	B3	9-SERIES	REAL TIME FORTRAN OCTAL DUMP SUBROUTINE
890251-11A00			DESCRIPTION PRINTED
890251-32A00			SOURCE PAPER TAPE, 7 LEVELS
890251-34A00			SOURCE CARDS
890252AA	B3	9-SERIES	MEMORY DUMP FOR 9372 PRINTER
890252-11A00			DESCRIPTION PRINTED
890252-24A00			RELOCATABLE BINARY CARDS
890252-32A00			SOURCE PAPER TAPE, 7 LEVELS
890253AA	B3	9-SERIES	FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST
890253-11A00			DESCRIPTION PRINTED
890253-32A00			SOURCE PAPER TAPE, 7 LEVELS
890253-34A00			SOURCE CARDS
890254AA	B3	9-SERIES	SHIFT ROUTINE FOR A AND B REGISTERS
890254-11A00			DESCRIPTION PRINTED
890254-32A00			SOURCE PAPER TAPE, 7 LEVELS
890254-34A00			SOURCE CARDS
890255AA	B3	9-SERIES	HALT AND TRANSFER SIMULATION ROUTINE
890255-11A00			DESCRIPTION PRINTED
890255-32A00			SOURCE PAPER TAPE, 7 LEVELS
890255-34A00			SOURCE CARDS
890256AA	B3	9-SERIES	SIMULATION OF SKIP ON COMPARISON INST.
890256-11A00			DESCRIPTION PRINTED
890256-32A00			SOURCE PAPER TAPE, 7 LEVELS
890256-34A00			SOURCE CARDS
890257AA	B3	9-SERIES	SINGLE INSTRUCTION FLAG OPERATION, FLOPO
890257-11A00			DESCRIPTION PRINTED
890257-32A00			SOURCE PAPER TAPE, 7 LEVELS
890257-34A00			SOURCE CARDS
890258AA	B3	9-SERIES	LINE PRINTER PLOTTING PACKAGE
890258-11A00			DESCRIPTION PRINTED
890258-32A00			SOURCE PAPER TAPE, 7 LEVELS
890258-34A00			SOURCE CARDS
890259AA	B3	9-SERIES	GRAPH ROUT FOR THE LINEPRINTER-PLOTTING
890259-11A00			DESCRIPTION PRINTED
890259-32A00			SOURCE PAPER TAPE, 7 LEVELS
890259-34A00			SOURCE CARDS
890260AA	B3	9-SERIES	GRAPH ROUTINES FOR LINE PRINTER-PLOTTING
890260-11A00			DESCRIPTION PRINTED
890260-32A00			SOURCE PAPER TAPE, 7 LEVELS
890260-34A00			SOURCE CARDS
890261AA	B3	9-SERIES	TAPE HANDLING ROUTINE - TAPE
890261-11A00			DESCRIPTION PRINTED
890261-32A00			SOURCE PAPER TAPE, 7 LEVELS
890261-34A00			SOURCE CARDS
890262AA	B3	9-SERIES	TYPEWRITER (STD) LISTING OUTPUT SUBR
890262-11A00			DESCRIPTION PRINTED
890262-32A00			SOURCE PAPER TAPE, 7 LEVELS
890262-34A00			SOURCE CARDS
890263AA	B3	9-SERIES	TYPEWRITER (15' CARRIAGE) LISTING OUTPUT
890263-11A00			DESCRIPTION PRINTED
890263-34A00			SOURCE CARDS

890264AA	B3	9-SERIES	SET OR DETECT 1TH BIT OF A WORD
890264-11A00			DESCRIPTION PRINTED
890264-32A00			SOURCE PAPER TAPE, 7 LEVELS
890265AA	B3	9-SERIES	CARD READER END OF FILE TEST
890265-11A00			DESCRIPTION PRINTED
890265-32A00			SOURCE PAPER TAPE, 7 LEVELS
890265-34A00			SOURCE CARDS
890266AA	B3	9-SERIES	LINE PRINTER LISTING SUBROUTINE
890266-11A00			DESCRIPTION PRINTED
890266-32A00			SOURCE PAPER TAPE, 7 LEVELS
890266-34A00			SOURCE CARDS
890267AA	B3	900-SERIES	FORTRAN FLOWCHART PROGRAM
890267-11A00			DESCRIPTION PRINTED
890267-32A00			SOURCE PAPER TAPE, 7 LEVELS
890267-34A00			SOURCE CARDS
890268AA	B3	9-SERIES	PRINTER UTILITY PROGRAM
890268-11A00			DESCRIPTION PRINTED
890268-24A00			RELOCATABLE BINARY CARDS
890268-32A00			SOURCE PAPER TAPE, 7 LEVELS
890268-34A00			SOURCE CARDS
890268-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890269AA	B3	9-SERIES	CARD RESEQUENCE - DUPLICATOR (REPRO)
890269-11A00			DESCRIPTION PRINTED
890269-32A00			SOURCE PAPER TAPE, 7 LEVELS
890269-34A00			SOURCE CARDS
890270AA	B3	9-SERIES	LIBRARY UPDATE EXAMPLE
890270-11A00			DESCRIPTION PRINTED
890270-32A00			SOURCE PAPER TAPE, 7 LEVELS
890270-34A00			SOURCE CARDS
890271AA	B3	9-SERIES	PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG.
890271-11A00			DESCRIPTION PRINTED
890271-32A00			SOURCE PAPER TAPE, 7 LEVELS
890271-34A00			SOURCE CARDS
890272AA	B3	9-SERIES	CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE
890272-11A00			DESCRIPTION PRINTED
890272-32A00			SOURCE PAPER TAPE, 7 LEVELS
890272-34A00			SOURCE CARDS
890273AA	B3	9-SERIES	BINARY TO DECIMAL CONVERSION
890273-11A00			DESCRIPTION PRINTED
890273-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
890273-32A00			SOURCE PAPER TAPE, 7 LEVELS
890274AA	B3	9-SERIES	XDS 92 PAPER TAPE EDITOR
890274-11A00			DESCRIPTION PRINTED
890274-32A00			SOURCE PAPER TAPE, 7 LEVELS
890274-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890275AA	B3	9-SERIES	FREQUENCY RESPONSE OF DIGITAL TRANSFER
890275-11A00			DESCRIPTION PRINTED
890275-32A00			SOURCE PAPER TAPE, 7 LEVELS
890275-34A00			SOURCE CARDS

890276AA	B3	9-SERIES	INVERSE Z-TRANSFORM
890276-11A00			DESCRIPTION PRINTED
890276-32A00			SOURCE PAPER TAPE, 7 LEVELS
890276-34A00			SOURCE CARDS
890277AA	B3	9-SERIES	D-T-L CIRCUIT DESIGN
890277-11A00			DESCRIPTION PRINTED
890277-32A00			SOURCE PAPER TAPE, 7 LEVELS
890278AB	B3	9-SERIES	BASIC CRITICAL PATH PROGRAM
890278-11A00			DESCRIPTION PRINTED
890278-32B00			SOURCE PAPER TAPE, 7 LEVELS
890278-34B00			SOURCE CARDS
890279AA	B3	9-SERIES	U.S. STANDARD EARTH MODEL ATMOSPHERE
890279-11A00			DESCRIPTION PRINTED
890279-32A00			SOURCE PAPER TAPE, 7 LEVELS
890279-34A00			SOURCE CARDS
890280AA	B3	9-SERIES	U.S. STANDARD EARTH ATMOSPHERE ROUTINE
890280-11A00			DESCRIPTION PRINTED
890280-32A00			SOURCE PAPER TAPE, 7 LEVELS
890280-34A00			SOURCE CARDS
890281AA	B3	9-SERIES	U.S. STANDARD MARS ATMOSPHERE ROUTINE(198
890281-11A00			DESCRIPTION PRINTED
890281-32A00			SOURCE PAPER TAPE, 7 LEVELS
890281-34A00			SOURCE CARDS
890282AA	B3	9-SERIES	U.S. STANDARD VENUS ATMOSPHERE ROUTINE
890282-11A00			DESCRIPTION PRINTED
890282-32A00			SOURCE PAPER TAPE, 7 LEVELS
890282-34A00			SOURCE CARDS
890283AA	B3	9-SERIES	CIRCUIT DESIGN ANALYSIS CIRC DC
890283-11A00			DESCRIPTION PRINTED
890283-25A00			RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
890283-35A00	890283-25		SOURCE MAG TAPE, 7 CHANNELS
890284AA	B3	9-SERIES	AIRPLANE LAT-DIR TIME HISTORY
890284-11A00			DESCRIPTION PRINTED
890284-32A00			SOURCE PAPER TAPE, 7 LEVELS
890285AA	B3	9-SERIES	UTILITIES INDUSTRY PACKAGE
890285-11A00			DESCRIPTION PRINTED
890285-32A00			SOURCE PAPER TAPE, 7 LEVELS
890285-34A00			SOURCE CARDS
890286AA	B3	9-SERIES	RPL, A DATA REDUCTION LANG. PRECOMPILER
890286-11A00			DESCRIPTION PRINTED
890286-25A00	890286-35		RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
890286-35A00			SOURCE MAG TAPE, 7 CHANNELS
890287AA	B3	9-SERIES	ON-LINE MATHEMATICAL COMPILER
890287-11A00			DESCRIPTION PRINTED
890287-32A00			SOURCE PAPER TAPE, 7 LEVELS
890287-34A00			SOURCE CARDS
890288AA	B3	9-SERIES	LOGICAL, BIT, AND CHARACTER MANIPULATION
890288-11A00			DESCRIPTION PRINTED
890288-32A00			SOURCE PAPER TAPE, 7 LEVELS
890288-34A00			SOURCE CARDS

890289AA	B3	9-SERIES	LINE PRINTER PLOTTING ROUTINE
890289-11A00			DESCRIPTION PRINTED
890289-32A00			SOURCE PAPER TAPE, 7 LEVELS
890289-34A00			SOURCE CARDS
890290AA	B3	9-SERIES	HISTOGRAPH PLOT LINE PRINTER-HSTPLOT
890290-11A00			DESCRIPTION PRINTED
890290-32A00			SOURCE PAPER TAPE, 7 LEVELS
890290-34A00			SOURCE CARDS
890291AA	B3	9-SERIES	WINNIM - PROGRAM TO PLAY NIM
890291-11A00			DESCRIPTION PRINTED
890291-32A00			SOURCE PAPER TAPE, 7 LEVELS
890291-34A00			SOURCE CARDS
890292AA	B3	9-SERIES	SAMPLE DATA FROM ANALOG INPUT AND STORE
890292-11A00			DESCRIPTION PRINTED
890292-34A00			SOURCE CARDS
890293AA	B3	9-SERIES	BCD CONVERSION, XDS - UNIVAC - XDS
890293-11A00			DESCRIPTION PRINTED
890293-32A00			SOURCE PAPER TAPE, 7 LEVELS
890294AA	B3	9-SERIES	MAG TAPE POSITION ROUTINE
890294-11A00			DESCRIPTION PRINTED
890295AA	B3	9-SERIES	INTERPOLATION OR EXTRAPOLATION ROUTINE
890295-11A00			DESCRIPTION PRINTED
			o
890296AA	B3	9-SERIES	PAPER TAPE DUPLICATOR
890296-11A00			DESCRIPTION PRINTED
890296-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890297AA	B3	9-SERIES	UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING
890297-11A00			DESCRIPTION PRINTED
890297-34A00			SOURCE CARDS
890297-35A00			SOURCE MAG TAPE, 7 CHANNELS
890298AA	B3	9-SERIES	FORTRAN II RAD LINKING PROCESSOR-RADLNK
890298-11A00			DESCRIPTION PRINTED
890298-34A00			SOURCE CARDS
890298-44A00			COMPRESSED CARDS
890299AA	B3	9-SERIES	SC4020 SUBROUTINES FOR XDS 920/930
890299-11A00			DESCRIPTION PRINTED
890299-34A00			SOURCE CARDS
890300AA	B3	9-SERIES	DISK (RAD) HANDLER
890300-11A00			DESCRIPTION PRINTED
890300-34A00			SOURCE CARDS
890301AA	B3	9-SERIES	LABEL TRACE, MODIFIED 160 SYS
890301-11A00			DESCRIPTION PRINTED
890301-32A00			SOURCE PAPER TAPE, 7 LEVELS
890301-34A00			SOURCE CARDS
890302AA	B3	9-SERIES	SELECTIVE LABEL TRACE, 160SYS
890302-11A00			DESCRIPTION PRINTED
890302-32A00			SOURCE PAPER TAPE, 7 LEVELS
890302-34A00			SOURCE CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890303AA	B3 9-SERIES	INSPECTION/CORRECTION BY TYPEWRITER
890303-11A00		DESCRIPTION PRINTED
890303-32A00		SOURCE PAPER TAPE, 7 LEVELS
890304AA	B3 9-SERIES	FORTRAN MEMORY SAVE ON MAG TAPE
890304-11A00		DESCRIPTION PRINTED
890304-32A00		SOURCE PAPER TAPE, 7 LEVELS
890305AA	B3 9-SERIES	B>SORT-BUSINESS LANGUAGE SORT ROUTINE
890305-11A00		DESCRIPTION PRINTED
890305-32A00		SOURCE PAPER TAPE, 7 LEVELS
890306AA	B3 9-SERIES	FORTRAN CARD READ SUBROUTINE (216 SYS)
890306-11A00		DESCRIPTION PRINTED
890306-34A00		SOURCE CARDS
890307AA	B3 9-SERIES	MUSIC BOX
890307-11A00		DESCRIPTION PRINTED
890307-32A00		SOURCE PAPER TAPE, 7 LEVELS
890308AA	B3 9-SERIES	FORTRAN LABEL TRACE POP (160 SYS)
890308-11A00		DESCRIPTION PRINTED
890308-34A00		SOURCE CARDS
890309AA	B3 9-SERIES	TIC-TAC-TOE ROUTINE
890309-11A00		DESCRIPTION PRINTED
890309-32A00		SOURCE PAPER TAPE, 7 LEVELS
890310AA	B3 9300	FORTRAN EXTENDER LIB.-BIT HANDLING & I/O
890310-11A00		DESCRIPTION PRINTED
890310-44A00		COMPRESSED CARDS
890311AA	B3 SIGMA 5/7	DEBUG ROUTINE-ON-LINE
890311-11A00		DESCRIPTION PRINTED
890311-84A00		ABSOLUTE BINARY CARDS
890312AA	B3 SIGMA 5/7	FOCAL, FORTRAN-CALCULATOR, DESK CALC.
890312-11A00		DESCRIPTION PRINTED
890312-34A00		SOURCE CARDS
890312-51A00	890312-11	LISTING PRINTED
890313AB	B3 9-SERIES	FAST FOURIER TRANSFORM--FOUR
890313-11A00		DESCRIPTION PRINTED
890313-34A01		SOURCE CARDS
890314AA	B3 9-SERIES	FAST FOURIER TRANSFORM--FOUR0
890314-11A00		DESCRIPTION PRINTED
890314-34A00		SOURCE CARDS
890315AB	B3 9-SERIES	FAST FOURIER TRANSFORM--FOUR2
890315-11B00		DESCRIPTION PRINTED
890315-34B00		SOURCE CARDS
890316AA	B3 9-SERIES	FAST FOURIER TRANSFORM--FOUR1
890316-11A00		DESCRIPTION PRINTED
890316-34A00		SOURCE CARDS

890317AA	B3	9-SERIES	FAST FOURIER TRANSFORM--FOR2D
890317-11A00			DESCRIPTION PRINTED
890317-34A00			SOURCE CARDS
890318AA	B3	900-SERIES	CIRCUIT DESIGN ANALYSIS - CIRC-AC
890318-11A00			DESCRIPTION PRINTED
890318-24A00			RELOCATABLE BINARY CARDS
890318-34A00			SOURCE CARDS
890318-35A00			SOURCE MAG TAPE, 7 CHANNELS
901651			CIRC-AC USERS MANUAL-900 SERIES CIRC AC
890319AA	B3	SIGMA 5/7	REGISTRATION STATISTICS PACKAGE
890319-11A00			DESCRIPTION PRINTED
890319-34A00			SOURCE CARDS
890319-36A00			SOURCE MAG TAPE, 9 CHANNELS
890319-51A00			LISTING PRINTED
890320AA	B3	92	XDS 92 FORTRAN IV COMPILER
890320-11A00			DESCRIPTION PRINTED
890320-55A00			LISTING MAG TAPE, 7 CHANNELS
890320-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890321AA	B3	SIGMA 5/7	CN704852 MOD0FORTIV COMP BCD CONVERSION
890321-11A00			DESCRIPTION PRINTED
890321-34A00			SOURCE CARDS
890321-51A00	890321-11		LISTING PRINTED
890322AC	B3	SIGMA 5-9	FREE FIELD FORTRAN IV INPUT SUBROUTINE
890322-11C00			DESCRIPTION PRINTED
890322-34C00			SOURCE CARDS
890323AB	B3	SIGMA 5/7	FORTRAN IV KEYED FILE I/O ROUTINES
890323-11B00			DESCRIPTION PRINTED
890323-34B00			SOURCE CARDS
890323-51B00	890323-11		LISTING PRINTED
890324AB	B3	SIGMA 5-9	FORTRAN IV BCD-EBCDIC CONVERSION SUBR.
890324-11B00			DESCRIPTION PRINTED
890324-34B00			SOURCE CARDS
890325AA	B3	SIGMA 5/7	TIME AND/OR DATE SUBROUTINE
890325-11A00			DESCRIPTION PRINTED
890325-34A00			SOURCE CARDS
890325-51A00	890325-11		LISTING PRINTED
890325-74A00			DATA CARDS
890326AA	B3	SIGMA 5/7	COMPRESSED SOURCE MERGE PROGRAM
890326-11A00			DESCRIPTION PRINTED
890326-24A00			RELOCATABLE BINARY CARDS
890326-34A00			SOURCE CARDS
890326-51A00	890326-11		LISTING PRINTED
890327AB	B3	SIGMA 7	INTEGER BOOLEAN FUNCTIONS FOR SIGMA 7
890327-11B00			DESCRIPTION PRINTED
890327-34B00			SOURCE CARDS
890327-51B00	890327-11		LISTING PRINTED
890327-64B00			UPDATE ON CARDS
890328AA	B3	SIGMA 2/3	COGO COORDINATE GEOMETRY LANG.-CIVIL ENG
890328-11A00			DESCRIPTION PRINTED
890328-36A00			SOURCE MAG TAPE, 9 CHANNELS
890328-74A00			DATA CARDS
890328-84A00			ABSOLUTE BINARY CARDS

890329AA B3 900-SERIES SEMILOG PLOTTING ROUTINES
890329-11A00 DESCRIPTION PRINTED
890329-34A00 SOURCE CARDS
890329-51A00 890329-11 LISTING PRINTED

890330AA B3 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE
890330-11A00 DESCRIPTION PRINTED
890330-34A00 SOURCE CARDS
890330-51A00 890330-11 LISTING PRINTED

890331AA B3 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE
890331-11A00 DESCRIPTION PRINTED
890331-34A00 SOURCE CARDS
890331-51A00 890331-11 LISTING PRINTED

890332AA B3 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE
890332-11A00 DESCRIPTION PRINTED
890332-34A00 SOURCE CARDS
890332-51A00 890332-11 LISTING PRINTED

890333AA B3 900-SERIES SUBROUTINE SLZDEQ
890333-11A00 DESCRIPTION PRINTED
890333-34A00 SOURCE CARDS
890333-51A00 890333-11 LISTING PRINTED

890334AA B3 900-SERIES NOPRINT, READ AND REREAD PACKAGE (10)
890334-11A00 DESCRIPTION PRINTED
890334-34A00 SOURCE CARDS
890334-51A00 890334-11 LISTING PRINTED

890335AA B3 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES.
890335-11A00 DESCRIPTION PRINTED
890335-34A00 SOURCE CARDS
890335-51A00 890335-11 LISTING PRINTED

890336AA B3 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE
890336-11A00 DESCRIPTION PRINTED
890336-34A00 SOURCE CARDS
890336-51A00 890336-11 LISTING PRINTED

890337AA B3 900-SERIES PACKING AND UNPACKING OF FLOATING POINT
890337-11A00 DESCRIPTION PRINTED
890337-34A00 SOURCE CARDS
890337-51A00 890337-11 LISTING PRINTED

890338AA B3 900-SERIES END-OF-FILE TEST
890338-11A00 DESCRIPTION PRINTED
890338-34A00 SOURCE CARDS
890338-51A00 890338-11 LISTING PRINTED

890339AA B3 900-SERIES END-OF-PAGE TEST ROUTINE
890339-11A00 DESCRIPTION PRINTED
890339-34A00 SOURCE CARDS
890339-51A00 890339-11 LISTING PRINTED

890340AA B3 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES
890340-11A00 DESCRIPTION PRINTED
890340-34A00 SOURCE CARDS
890340-51A00 890340-11 LISTING PRINTED

890341AA B3 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE
890341-11A00 DESCRIPTION PRINTED
890341-34A00 SOURCE CARDS
890341-51A00 890341-11 LISTING PRINTED

890342AA B3 900-SERIES TAPE LABEL AND POSITIONING
890342-11A00 DESCRIPTION PRINTED
890342-34A00 SOURCE CARDS
890342-51A00 890342-11 LISTING PRINTED

890343AA B3 900-SERIES ERROR
890343-11A00 DESCRIPTION PRINTED
890343-34A00 SOURCE CARDS
890343-51A00 890343-11 LISTING PRINTED

890344AA B3 900-SERIES PLOTTER SUBROUTING BLOWUP
890344-11A00 DESCRIPTION PRINTED
890344-34A00 SOURCE CARDS
890344-51A00 890344-11 LISTING PRINTED

890345AA B3 900-SERIES HISTPRINT AND HISTPLOT
890345-11A00 DESCRIPTION PRINTED
890345-34A00 SOURCE CARDS
890345-51A00 890345-11 LISTING PRINTED

890346AA B3 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER
890346-11A00 DESCRIPTION PRINTED
890346-34A00 SOURCE CARDS
890346-51A00 890346-11 LISTING PRINTED

890347AA B3 900-SERIES PROBABILITY FUNCTIONS - ERRF, ZGAUSSF, P
890347-11A00 DESCRIPTION PRINTED
890347-34A00 SOURCE CARDS
890347-51A00 890347-11 LISTING PRINTED

890348AA B3 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE
890348-11A00 DESCRIPTION PRINTED
890348-34A00 SOURCE CARDS
890348-51A00 890348-11 LISTING PRINTED

890349AA B3 900-SERIES STATPAK-STATISTICAL PACKAGE
890349-11A00 DESCRIPTION PRINTED
890349-34A00 SOURCE CARDS
890349-51A00 890349-11 LISTING PRINTED

890350AA B3 900-SERIES GENERAL PLOTTING PACKAGE
890350-11A00 DESCRIPTION PRINTED
890350-34A00 SOURCE CARDS
890350-51A00 890350-11 LISTING PRINTED

890351AA B3 900-SERIES SEMILOG PLOTTING PACKAGE
890351-11A00 DESCRIPTION PRINTED
890351-34A00 SOURCE CARDS
890351-51A00 890351-11 LISTING PRINTED

890352AA B3 900-SERIES LOGAXIS PLOTTING SUBROUTINE
890352-11A00 DESCRIPTION PRINTED
890352-34A00 SOURCE CARDS
890352-51A00 890352-11 LISTING PRINTED

890353AA B3 900-SERIES PLOTTING SUBROUTINE LOGSCALE
 890353-11A00 DESCRIPTION PRINTED
 890353-34A00 SOURCE CARDS
 890353-51A00 890353-11 LISTING PRINTED

890354AA B3 900-SERIES COMPLEX ARITHMETIC FUNCTIONS
 890354-11A00 DESCRIPTION PRINTED
 890354-34A00 SOURCE CARDS
 890354-51A00 890354-11 LISTING PRINTED

890355AA B3 900-SERIES BCD CONVERSION OF NUMERIC DATA
 890355-11A00 DESCRIPTION PRINTED
 890355-34A00 SOURCE CARDS
 890355-51A00 890355-11 LISTING PRINTED

890356AA B3 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN
 890356-11A00 DESCRIPTION PRINTED
 890356-34A00 SOURCE CARDS
 890356-51A00 890356-11 LISTING PRINTED

890363AD B3 SIGMA 5-9 SOL-SIMULATION-ORIENTED LANGUAGE
 890363-11D00 DESCRIPTION PRINTED
 890363-26D00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890366AB B3 SIGMA 5/7 LISP 1.5-LANGUAGE FOR LIST PROCESSING
 890366-11B00 DESCRIPTION PRINTED
 890366-26B00 890366-46 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890366-46B00 COMPRESSED MAG TAPE, 9 CHANNELS
 890366-86B00 890366-46 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890377AA B3 900-SERIES SUBROUTINE RE20EQ
 890377-11A00 DESCRIPTION PRINTED
 890377-34A00 SOURCE CARDS
 890377-51A00 890377-11 LISTING PRINTED

890378AA B3 900-SERIES SUBROUTINE DASHPLOT PLOTTER
 890378-11A00 DESCRIPTION PRINTED
 890378-34A00 SOURCE CARDS
 890378-51A00 890378-11 LISTING PRINTED

890379AA B3 900-SERIES LINEAR PLOTTING PACKAGE
 890379-11A00 DESCRIPTION PRINTED
 890379-34A00 SOURCE CARDS
 890379-51A00 890379-11 LISTING PRINTED

890380AA B3 900-SERIES ALPHAXIS PLOTTING ROUTINE
 890380-11A00 DESCRIPTION PRINTED
 890380-34A00 SOURCE CARDS
 890380-51A00 890380-11 LISTING PRINTED

890383AA B3 SIGMA 5/7 MESSAGE WRITER FOR PRINTER OR TYPEWRITER
 890383-11A00 DESCRIPTION PRINTED
 890383-34A00 SOURCE CARDS

890384AA B3 900-SERIES FORTRAN PRECOMPILER FORT 11-FORT 11V
 890384-11A00 DESCRIPTION PRINTED
 890384-34A00 SOURCE CARDS

890387AA B3 SIGMA 5/7 PLOT DRIVER PACKAGE
 890387-11A00 DESCRIPTION PRINTED
 890387-34A00 SOURCE CARDS
 890387-51A00 890387-11 LISTING PRINTED
 890387-74A00 DATA CARDS

890388AB	B3	SIGMA 5/7	SYMBOL LAB. ROUTINE FOR CALCOMP PLOTTER
890388-11B00			DESCRIPTION PRINTED
890388-34B00			SOURCE CARDS
890388-51B00	890388-11		LISTING PRINTED
890389AA	B3	SIGMA 2/3	TEXT EDITOR FOR SIGMA 2
890389-11A00			DESCRIPTION PRINTED
890389-33A00			SOURCE PAPER TAPE, 8 LEVELS
890389-34A00			SOURCE CARDS
890389-51A00	890389-11		LISTING PRINTED
890400AB	B3	SIGMA 5-9	VUL2-VANDERBILT STATISTICAL PACKAGE
890400-11B00			DESCRIPTION PRINTED
890400-36B00			SOURCE MAG TAPE, 9 CHANNELS
890400-74B00			DATA CARDS
890523AA	B3	SIGMA 2	DEBUG/TRACE (SIGMA 2)
890523-11A00			DESCRIPTION PRINTED
890523-32A00			SOURCE PAPER TAPE, 7 LEVELS
890523-51A00	890523-11		LISTING PRINTED
890524AA	B3	940	940 TELETYPE PLOT ROUTINES
890524-11A00			DESCRIPTION PRINTED
890524-23A00			RELOCATABLE BINARY PAPER TAPE, 8 LEVELS
890524-51A00	890524-11		LISTING PRINTED
890525AA	B3	900-SERIES	NODE OPTIMIZATION ROUTINE
890525-11A00			DESCRIPTION PRINTED
890525-34A00			SOURCE CARDS
890525-51A00	890525-11		LISTING PRINTED
890525-74A00			DATA CARDS
890526AA	B3	920	REAL-TIME FORTRAN RUN-TIME DEBUG
890526-11A00			DESCRIPTION PRINTED
890526-34A00			SOURCE CARDS
890526-51A00	890526-11		LISTING PRINTED
890527AA	B3	92	DDT-92 DEBUGGING ROUTINE
890527-11A00			DESCRIPTION PRINTED
890527-34A00			SOURCE CARDS
890528AA	B3	910	CONVERSATIONAL FUNCTIONAL ASSEMBLER
890528-11A00			DESCRIPTION PRINTED
890528-34A00			SOURCE CARDS
890528-51A00	890528-11		LISTING PRINTED
890529AA	B3	900-SERIES	PRINTX-PRINTER SUBROUTINE
890529-11A00			DESCRIPTION PRINTED
890529-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
890529-32A00			SOURCE PAPER TAPE, 7 LEVELS
890529-51A00	890529-11		LISTING PRINTED
890530AA	B3	900-SERIES	PUNCHX PUNCH SUBROUTINE
890530-11A00			DESCRIPTION PRINTED
890530-22A00			RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
890530-32A00			SOURCE PAPER TAPE, 7 LEVELS
890530-51A00	890530-11		LISTING PRINTED
890531AA	B3	SIGMA 5/7	FILE EDITOR (METAMEDIA)
890531-11A00			DESCRIPTION PRINTED
890531-24A01			RELOCATABLE BINARY CARDS
890531-44A00			COMPRESSED CARDS
890531-51A00	890531-11		LISTING PRINTED

890532AA	B3	SIGMA 5/7	JANUS TIMESHARING SYSTEM
890532-11A00			DESCRIPTION PRINTED
890532-36A00			SOURCE MAG TAPE, 9 CHANNELS
890532-86A00			ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890533AA	B3	SIGMA 7	GORDO TIME SHARED GRAPHICS FACILITY
890533-11A00			DESCRIPTION PRINTED
890533-36A00			SOURCE MAG TAPE, 9 CHANNELS
890534AA	B3	SIGMA 5/7	PHORMER - DATAFORM GENERATOR BY PLOTTER
890534-11A00			DESCRIPTION PRINTED
890534-34A00			SOURCE CARDS
890534-51A00	890534-11		LISTING PRINTED
890538AA	B3	92	TABLCON
890538-11A00			DESCRIPTION PRINTED
890538-34A00			SOURCE CARDS
890539AA	B3	92	QUBLDR DD-OPT PUNCH FOR INPUT TABLCON
890539-11A00			DESCRIPTION PRINTED
890539-34A00			SOURCE CARDS
890540AA	B3	930	MONARCH SYSTEM UPDATE
890540-11A00			DESCRIPTION PRINTED
890540-24A00			RELOCATABLE BINARY CARDS
890540-34A00			SOURCE CARDS
890540-51A00	890540-11		LISTING PRINTED
890541AA	B3	930	A GENERAL MAG TAPE ROUTINE
890541-11A00			DESCRIPTION PRINTED
890541-24A00			RELOCATABLE BINARY CARDS
890541-34A00			SOURCE CARDS
890541-51A00	890542-11		LISTING PRINTED
890542AA	B3	930	EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE
890542-11A00			DESCRIPTION PRINTED
890542-24A00			RELOCATABLE BINARY CARDS
890542-34A00			SOURCE CARDS
890542-51A00	890542-11		LISTING PRINTED
890543AA	B3	SIGMA 5/7	TIC TAC TOE -3D
890543-11A00			DESCRIPTION PRINTED
890543-33A00			SOURCE PAPER TAPE, 8 LEVELS
890543-34A00			SOURCE CARDS
890543-51A00	890543-11		LISTING PRINTED
890544AA	B3	SIGMA 5/7	UTILITY PACKAGE 'HELP'
890544-11A00			DESCRIPTION PRINTED
890544-24A00			RELOCATABLE BINARY CARDS
890545AA	B3	SIGMA 5-9	FORTRAN CROSS REFERENCE PROGRAM
890545-11B00			DESCRIPTION PRINTED
890545-44B00			COMPRESSED CARDS
890546AC	B3	SIGMA 5-9	GETFILE
890546-11C00			DESCRIPTION PRINTED
890546-44C00			COMPRESSED CARDS
890547AA	B3	SIGMA 5/7	SNAP TRANSLATOR
890547-11A00			DESCRIPTION PRINTED
890547-26A00	890547-38		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890547-36A00			SOURCE MAG TAPE, 9 CHANNELS

890548AB	B3 930	REGEN-A BINARY TO SYMBOLIC TRANSLATOR
890548-11B00		DESCRIPTION PRINTED
890548-24B00		RELOCATABLE BINARY CARDS
890548-34B00		SOURCE CARDS
890548-44B00		COMPRESSED CARDS
890549AA	B3 SIGMA 5/7	FREE-FIELD EBCDIC INPUT ROUTINE
890549-11A00		DESCRIPTION PRINTED
890549-24A00		RELOCATABLE BINARY CARDS
890549-34A00		SOURCE CARDS
890549-51A00	890549-11	LISTING PRINTED
890550AA	B3 SIGMA 5/7	GENERALIZED EBCDIC OUTPUT ROUTINE
890550-11A00		DESCRIPTION PRINTED
890550-24A00		RELOCATABLE BINARY CARDS
890550-34A00		SOURCE CARDS
890550-51A00	890550-11	LISTING PRINTED
890554AA	B3 SIGMA 5/7	CARD LISTER USING SIG 5/7 (STAND-ALONE)
890554-11A00		DESCRIPTION PRINTED
890554-84A00		ABSOLUTE BINARY CARDS
890556AA	B3 SIGMA 5/7	CARD DUPLICATOR - USES 7160 PUNCH
890556-11A00		DESCRIPTION PRINTED
890556-84A00		ABSOLUTE BINARY CARDS
890557AA	B3 SIGMA 5/7	BIRD WHISTLING-SIMULATION
890557-11A00		DESCRIPTION PRINTED
890557-84A00		ABSOLUTE BINARY CARDS
890558AB	B3 SIGMA 5/7	BUSINESS POLICY GAME
890558-11B00		DESCRIPTION PRINTED
890558-36B00		SOURCE MAG TAPE, 9 CHANNELS
890559AA	B3 SIGMA 5/7	BTH/3 GASP II
890559-11A00		DESCRIPTION PRINTED
890559-34A00		SOURCE CARDS
890560AA	B3 SIGMA 5/7	BPM/3 GASP II SIMULATION PACKAGE
890560-11A00		DESCRIPTION PRINTED
890560-34A00		SOURCE CARDS
890561AB	B3 SIGMA 5/7	ANALOG DIGITAL SIMULATION PROGRAM
890561-11B00		DESCRIPTION PRINTED
890561-36B00		SOURCE MAG TAPE, 9 CHANNELS
890562AA	B3 SIGMA 5/7	PAYROLL SYSTEM
890562-11A00		DESCRIPTION PRINTED
890562-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890562-34A00	890562-26	SOURCE CARDS
890562-74A00	890562-26	DATA CARDS
890579AB	B3 SIGMA 2/3	COMMERCIAL SUBSET FOR BUS. APPLICATIONS
890579-11B00		DESCRIPTION PRINTED
890579-34A01		SOURCE CARDS
890579-36A01		SOURCE MAG TAPE, 9 CHANNELS
890581AA	B3 SIGMA 5/7	SOP-STUDENT ONLINE PREREGISTRATION PROG.
890581-11A00		DESCRIPTION PRINTED
890581-34A00		SOURCE CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890582AA B3 SIGMA 5/7 BLCRSE-S-O-P COURSE NAME PROGRAM
890582-11A00 890581-11 DESCRIPTION PRINTED
890582-34A00 890581-34 SOURCE CARDS

890583AA B3 SIGMA 5/7 BLDNAME - S-O-P STUDENT NAME PROGRAM
890583-11A00 890581-11 DESCRIPTION PRINTED
890583-34A00 890581-34 SOURCE CARDS

890584AB B3 SIGMA 2/3 TIME-OF-DAY SUBROUTINE
890584-11B00 DESCRIPTION PRINTED
890584-34B00 SOURCE CARDS

890585AA B3 SIGMA 5/7 BPH SELF SCARE- CARD READER SYMB. START
890585-11A00 DESCRIPTION PRINTED
890585-34A00 SOURCE CARDS

890586AA B3 900-SERIES CROSS REFERENCE FOR FORTRAN PROGRAMS
890586-11A00 DESCRIPTION PRINTED
890586-34A00 SOURCE CARDS

890587AA B3 SIGMA 5/7 EBCDIC-HEXDUMP MAG TAPE / RAD FILE
890587-11A00 DESCRIPTION PRINTED
890587-34A00 SOURCE CARDS

890588AA B3 SIGMA 5/7 DELETE RAD FILE PROGRAM
890588-11A00 DESCRIPTION PRINTED
890588-34A00 SOURCE CARDS

890589AA B3 SIGMA 5/7 FORTIV-SCATTER READ/WRITE MAG TAPE PACK.
890589-11A00 DESCRIPTION PRINTED
890589-34A00 SOURCE CARDS

890590AA B3 SIGMA 5/7 PERSPECTIVE PLOT
890590-11A00 DESCRIPTION PRINTED
890590-34A00 SOURCE CARDS

890591AA B3 SIGMA 5/6/7 GENERAL LEDGER SYSTEM (COVER)
890591-11A00 DESCRIPTION PRINTED
890591-24A00 890591-36 RELOCATABLE BINARY CARDS
890591-36A00 SOURCE MAG TAPE, 9 CHANNELS
890591-74A00 890591-36 DATA CARDS

890592AA B3 SIGMA 5/6/7 DISTRIBUTION LEDGER TRIAL BALANCE DP0215
890592-11A00 890591-11 DESCRIPTION PRINTED
890592-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890593AA B3 SIGMA 5/6/7 MONTHLY BUDGET STATEMENTS (DP0222)
890593-11A00 890591-11 DESCRIPTION PRINTED
890593-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890594AA B3 SIGMA 5/6/7 GENERAL LEDGER TOTALS (DP0311)
890594-11A00 890591-11 DESCRIPTION PRINTED
890594-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890595AA B3 SIGMA 5/6/7 GENERAL LEDGER PROOF
890595-11A00 890591-11 DESCRIPTION PRINTED
890595-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890596AA B3 SIGMA 5/6/7 GENERAL LEDGER MONTHLY STATEMENT (DP0318)
 890596-11A00 890591-11 DESCRIPTION PRINTED
 890596-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890597AA B3 SIGMA 5/6/7 OUTSTANDING CHECK LISTING (DP0512)
 890597-11A00 890591-11 DESCRIPTION PRINTED
 890597-36A00 890591-36 SOURCE MAG TAPE, 9 CHANNELS

890598AC B3 SIGMA 5-9 COBOL KEYED-FILE UTILITY SUBROUTINES
 890598-11B00 DESCRIPTION PRINTED
 890598-34B01 SOURCE CARDS

890599AB B3 SIGMA 5/6/7 COBOL RELEASE FILES (RELFILES)
 890599-11B00 890598-11 DESCRIPTION PRINTED
 890599-34B00 890598-34 SOURCE CARDS

890600AB B3 SIGMA 5/6/7 COBOL SUBROUTINE DELREC
 890600-11B00 890598-11 DESCRIPTION PRINTED
 890600-34B00 890598-34 SOURCE CARDS

890601AB B3 SIGMA 5/6/7 COBOL SUBROUTINE GETCOM
 890601-11B00 890598-11 DESCRIPTION PRINTED
 890601-34B00 890598-34 SOURCE CARDS

890602AB B3 SIGMA 5/6/7 COBOL SUBROUTINE GETKEY
 890602-11B00 890598-11 DESCRIPTION PRINTED
 890602-34B00 890598-34 SOURCE CARDS

890603AB B3 SIGMA 5/6/7 COBOL SUBROUTINE KEYSTART
 890603-11B00 890598-11 DESCRIPTION PRINTED
 890603-34B00 890598-34 SOURCE CARDS

890604AB B3 SIGMA 5/6/7 COBOL ADD SEQUENTIAL SUBROUTINE
 890604-11B00 890598-11 DESCRIPTION PRINTED
 890604-34B00 890598-34 SOURCE CARDS

890605AB B3 SIGMA 5/6/7 COBOL SUBROUTINE PAPERCHO
 890605-11B00 890598-11 DESCRIPTION PRINTED
 890605-34B00 890598-34 SOURCE CARDS

890606AB B3 SIGMA 5/6/7 COBOL SUBROUTINE BDP\$PRT
 890606-11B00 890598-11 DESCRIPTION PRINTED
 890606-34B00 890598-34 SOURCE CARDS

890607AB B3 SIGMA 5/6/7 COBOL SUBROUTINE BINARY SEARCH
 890607-11B00 890598-11 DESCRIPTION PRINTED
 890607-34B00 890598-34 SOURCE CARDS

890612AA B3 SIGMA 5/7 HIERARCHICAL TEXT EDITOR
 890612-11A00 DESCRIPTION PRINTED
 890612-24A00 RELOCATABLE BINARY CARDS
 890612-44A00 COMPRESSED CARDS

890613AA B3 SIGMA 7 PDUMP
 890613-11A00 DESCRIPTION PRINTED
 890613-24A00 RELOCATABLE BINARY CARDS
 890613-44A00 COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890614AA B3 SIGMA 5/7 RAD FILES IN/OUT
 890614-11A00 DESCRIPTION PRINTED
 890614-34A00 SOURCE CARDS
 890614-51A00 890614-11 LISTING PRINTED

890615AA B3 SIGMA 5/7 PROCEDURES FOR ASSEMBLY OF SIGMA 2 PROG.
 890615-11A00 DESCRIPTION PRINTED
 890615-34A00 SOURCE CARDS
 890615-51A00 890615-11 LISTING PRINTED

890616AA B3 SIGMA 5/7 DISC DUMP PROGRAM
 890616-11A00 DESCRIPTION PRINTED
 890616-34A00 SOURCE CARDS
 890616-51A00 890616-11 LISTING PRINTED

890617AB B3 SIGMA 5/6/7 DITTO - SIGMA UTILITY FILE MANIPULATOR
 890617-11B00 DESCRIPTION PRINTED
 890617-44B00 COMPRESSED CARDS
 890617-74B00 890617-44 ASSEMBLY & LOAD CARDS

890620AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE SYSTEM (COVER)
 890620-11A00 DESCRIPTION PRINTED
 890620-36A00 SOURCE MAG TAPE, 9 CHANNELS

890621AA B3 SIGMA 5/6/7 YEARLY ACCOUNTS PAYABLE TOTALS (DP0112)
 890621-11A00 890620-11 DESCRIPTION PRINTED
 890621-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS
 890621-74A00 890620-36 DATA CARDS

890622AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE VENDOR LABELS (DP0113)
 890622-11A00 890620-11 DESCRIPTION PRINTED
 890622-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS
 890622-74A00 890620-36 DATA CARDS

890623AA B3 SIGMA 5/6/7 DUE DATE ACCRUED PAYABLES (DP0115)
 890623-11A00 890620-11 DESCRIPTION PRINTED
 890623-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS
 890623-74A00 890620-36 DATA CARDS

890624AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE CHECK REGISTER (DP0118)
 890624-11A00 890620-11 DESCRIPTION PRINTED
 890624-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS
 890624-74A00 890620-36 DATA CARDS

890625AA B3 SIGMA 5/6/7 ACCOUNTS PAYABLE CHECKS (DP0120)
 890625-11A00 890620-11 DESCRIPTION PRINTED
 890625-36A00 890620-36 SOURCE MAG TAPE, 9 CHANNELS

890626AA B3 SIGMA 5/6/7 ACCOUNTS RECEIVABLE SYSTEM (COVER)
 890626-11A00 DESCRIPTION PRINTED
 890626-36A00 SOURCE MAG TAPE, 9 CHANNELS

890627AA B3 SIGMA 5/6/7 ACCOUNTS RECEIVABLE TRIAL BALANCE-DP0716
 890627-11A00 890626-11 DESCRIPTION PRINTED
 890627-36A00 890626-36 SOURCE MAG TAPE, 9 CHANNELS
 890627-74A00 890626-36 DATA CARDS

890628AA B3 SIGMA 5/6/7 ACCOUNTS RECEIVABLE BILLING-DP0721
 890628-11A00 890626-11 DESCRIPTION PRINTED
 890628-36A00 890626-36 SOURCE MAG TAPE, 9 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890629AA B3 SIGMA 5/6/7 BOOKSTORE SYSTEM (COVER)
890629-11A00 DESCRIPTION PRINTED
890629-36A00 SOURCE MAG TAPE, 9 CHANNELS

890630AA B3 SIGMA 5/6/7 BOOKSTORE ACCOUNTS RECEIVABLE (DP0911)
890630-11A00 890629-11 DESCRIPTION PRINTED
890630-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS
890630-74A00 890629-36 DATA CARDS

890631AA B3 SIGMA 5/6/7 BOOKSTORE STATEMENTS (DP0913)
890631-11A00 890629-11 DESCRIPTION PRINTED
890631-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS
890631-74A00 890629-36 DATA CARDS

890632AA B3 SIGMA 5/6/7 BOOKSTORE DEPARTMENT CHARGES (DP0918)
890632-11A00 890629-11 DESCRIPTION PRINTED
890632-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS
890632-74A00 890629-36 DATA CARDS

890633AA B3 SIGMA 5/6/7 BOOKSTORE TRIAL BALANCE (DP0917)
890633-11A00 890629-11 DESCRIPTION PRINTED
890633-36A00 890629-36 SOURCE MAG TAPE, 9 CHANNELS
890633-74A00 890629-36 DATA CARDS

890634AA B3 SIGMA 5/6/7 ALUMNI SYSTEM
890634-11A00 DESCRIPTION PRINTED
890634-36A00 SOURCE MAG TAPE, 9 CHANNELS

890635AA B3 SIGMA 5/6/7 ALUM1 ALUMNI UPDATING
890635-11A00 890634-11 DESCRIPTION PRINTED
890635-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890638AA B3 SIGMA 5/6/7 ALUM2 LONG FORM DIRECTORY
890638-11A00 890634-11 DESCRIPTION PRINTED
890638-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890639AA B3 SIGMA 5/6/7 ALUM3 CLASS DIRECTORY
890639-11A00 890634-11 DESCRIPTION PRINTED
890639-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890642AA B3 SIGMA 5/6/7 ALUM4 SELECTIVE ALUMNI
890642-11A00 890634-11 DESCRIPTION PRINTED
890642-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890643AA B3 SIGMA 5/6/7 ALUM5 HEAT TRANSFER ADDRESS TAPE
890643-11A00 890634-11 DESCRIPTION PRINTED
890643-36A00 890634-36 SOURCE MAG TAPE, 9 CHANNELS

890644AA B3 SIGMA 5/6/7 SUBROUTINE DISCPROC
890644-11A00 890634-11 DESCRIPTION PRINTED
890644-26A00 890634-36 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS

890645AA B3 SIGMA 5/6/7 REGISTRAR SYSTEM
890645-11A00 DESCRIPTION PRINTED
890645-36A00 SOURCE MAG TAPE, 9 CHANNELS
890645-74A00 890645-36 DATA CARDS

890646AA B3 SIGMA 5/6/7 ACST1 NON-ACADEMIC STATISTICS LISTINGS
890646-11A00 890645-11 DESCRIPTION PRINTED
890646-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890647AA B3 SIGMA 5/6/7 ACST2 FINAL GRADE REPORTS
 890647-11A00 890645-11 DESCRIPTION PRINTED
 890647-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890647-74A00 890645-74 DATA CARDS

890648AA B3 SIGMA 5/6/7 ACST3 CLASS ROSTERS
 890648-11A00 890645-11 DESCRIPTION PRINTED
 890648-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890648-74A00 890645-74 DATA CARDS

890649AA B3 SIGMA 5/6/7 ACST4 HEAT TRANSFER STUDENT MASTER
 890649-11A00 890645-11 DESCRIPTION PRINTED
 890649-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890649-74A00 890645-74 DATA CARDS

890650AA B3 SIGMA 5/6/7 ACST5 CLASS SCHEDULES
 890650-11A00 890645-11 DESCRIPTION PRINTED
 890650-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890650-74A00 890645-74 DATA CARDS

890651AA B3 SIGMA 5/6/7 ACST7 PERMANENT RECORDS
 890651-11A00 890645-11 DESCRIPTION PRINTED
 890651-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890651-74A00 890645-74 DATA CARDS

890652AA B3 SIGMA 5/6/7 ACST10 GRADE POINT AVERAGE LISTINGS
 890652-11A00 890645-11 DESCRIPTION PRINTED
 890652-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890652-74A00 890645-74 DATA CARDS

890653AA B3 SIGMA 5/6/7 ACST12 GEOGRAPHICAL DISTRIBUTION SUMM.
 890653-11A00 890645-11 DESCRIPTION PRINTED
 890653-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890654AA B3 SIGMA 5/6/7 ACST32 COURSE CONFLICTS
 890654-11A00 890645-11 DESCRIPTION PRINTED
 890654-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS
 890654-74A00 890645-74 DATA CARDS

890655AA B3 SIGMA 5/6/7 ACST33 LANGUAGE LAB FILE MAINTENANCE
 890655-11A00 890645-11 DESCRIPTION PRINTED
 890655-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890656AA B3 SIGMA 5/6/7 ACST34 LANGUAGE LAB WEEKLY REPORT
 890656-11A00 890645-11 DESCRIPTION PRINTED
 890656-36A00 890645-36 SOURCE MAG TAPE, 9 CHANNELS

890657AC B3 SIGMA 5-9 CHARACTER MANIPULATION ROUTINES--FORTRAN
 890657-11B00 DESCRIPTION PRINTED
 890657-44B01 COMPRESSED CARDS

890658AB B3 SIGMA 5-9 SUBROUTINE PUNCH (COL. BINARY)
 890658-11B00 DESCRIPTION PRINTED
 890658-34B00 SOURCE CARDS

890659AA B3 SIGMA 5/6/7 UTILITIES,SINGLE CARD
 890659-11A00 DESCRIPTION PRINTED
 890659-34A00 SOURCE CARDS

890660AB	B3	SIGMA 5-9	CALS FOR FORTRAN USERS-MONITOR CALI'S
890660-11B00			DESCRIPTION PRINTED
890660-34B00			SOURCE CARDS
890661AB	B3	SIGMA 5-9	SUBROUTINE DATETIME
890661-11B00			DESCRIPTION PRINTED
890661-34B00			SOURCE CARDS
890662AB	B3	SIGMA 5-9	PARTIAL WORD MANIPULATION OR TEST
890662-11B00			DESCRIPTION PRINTED
890662-34B00			SOURCE CARDS
890663AB	B3	920	SHORT RELOCATING LOADER FOR 920/930
890663-11A01			DESCRIPTION PRINTED
890663-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890663-34A00			SOURCE CARDS
890664AA	B3	920	SATFIX-SATELLITE ANGLE & RANGE COMPUTE
890664-11A00			DESCRIPTION PRINTED
890664-34A00			SOURCE CARDS
890665AA	B3	SIGMA 5/6/7	LIBUPDAT FORTRAN IV LIBRARY UPDATE
890665-11A00			DESCRIPTION PRINTED
890665-34A00			SOURCE CARDS
890666AA	B3	SIGMA 5/7	BTH DEMO - GAMES PROGRAMS
890666-11A00			DESCRIPTION PRINTED
890666-36A00			SOURCE MAG TAPE, 9 CHANNELS
890667AC	B3	SIGMA 5-9	1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM
890667-11C00			DESCRIPTION PRINTED
890667-36C00			SOURCE MAG TAPE, 9 CHANNELS
890668AA	B3	900-SERIES	MUSIC - FOR 910/920
890668-11A00			DESCRIPTION PRINTED
890668-82A00			ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
890669AB	B3	900-SERIES	300 ELECTRONIC CIRCUIT ANALYSIS (ECAP)
890669-11B00			DESCRIPTION PRINTED
890669-35B00			SOURCE MAG TAPE, 7 CHANNELS
890669-74B00			CONTROL DECK
890670AB	B3	SIGMA 2/3	SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-8400
890670-11B00			DESCRIPTION PRINTED
890670-34B00			SOURCE CARDS
890670-64B00			UPDATE ON CARDS
890671AA	B3	SIGMA 2/3	RBH/3 GASP II SIMULATION PROGRAM
890671-11A00			DESCRIPTION PRINTED
890671-34A00			SOURCE CARDS
890672AB	B3	SIGMA 5/6/7	SIGMA 2 BASIC SYMBOL ASSEMBLER
890672-11B00			DESCRIPTION PRINTED
890672-36B00			SOURCE MAG TAPE, 9 CHANNELS
890673AA	B3	SIGMA 5/7	INTERACTIVE SNOBOL4
890673-11A00			DESCRIPTION PRINTED
890673-46A00			COMPRESSED MAG TAPE, 9 CHANNELS

890674AA	B3	SIGMA 5/6/7	RELABL-SOURCE DECK RELABELER&REFORMATTER
890674-11A00			DESCRIPTION PRINTED
890674-34A00			SOURCE CARDS
890675AA	B3	SIGMA 5/6/7	DUMP
890675-11A00			DESCRIPTION PRINTED
890675-24A00			RELOCATABLE BINARY CARDS
890675-44A00			COMPRESSED CARDS
890676AA	B3	SIGMA 5-9	LINE PLOTTER PLOT SUBROUTINE
890676-11A00			DESCRIPTION PRINTED
890676-11A00	705380-11		DESCRIPTION PRINTED
890676-34A00			SOURCE CARDS
890677AA	B3	SIGMA 5/6/7	ADMISSIONS SYSTEM FOR SCHOOL ENROLLMENT
890677-11A00			DESCRIPTION PRINTED
890677-36A00			SOURCE MAG TAPE, 9 CHANNELS
890677-74A00	890677-36		DATA CARDS
890678AA	B3	SIGMA 5/6/7	ADMIS1-RECEIPT FORM
890678-11A00	890677-11		DESCRIPTION PRINTED
890678-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890679AA	B3	SIGMA 5/6/7	ADMIS2-FILE FOLDER LABELS
890679-11A00	890677-11		DESCRIPTION PRINTED
890679-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890680AA	B3	SIGMA 5/6/7	ADMIS3-APPLICANT ENVELOPES
890680-11A00	890677-11		DESCRIPTION PRINTED
890680-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890681AA	B3	SIGMA 5/6/7	ADMIS5-HIGH SCHOOL COUNSELOR ENVELOPE
890681-11A00	890677-11		DESCRIPTION PRINTED
890681-36A00	890677-11		SOURCE MAG TAPE, 9 CHANNELS
890682AA	B3	SIGMA 5/6/7	ADMIS6-LOAD AND UPDATE ADMISSION FILE
890682-11A00	890677-11		DESCRIPTION PRINTED
890682-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890683AA	B3	SIGMA 5/6/7	ADMIS10-ALUMNI CHILDREN LIST
890683-11A00	890677-11		DESCRIPTION PRINTED
890683-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890684AA	B3	SIGMA 5/6/7	ADMIS11-APPLICANT PROFILE SHEET
890684-11A00	890677-11		DESCRIPTION PRINTED
890684-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890685AA	B3	SIGMA 5/6/7	ADMIS13-WEEKLY DISTRIBUTION
890685-11A00	890677-11		DESCRIPTION PRINTED
890685-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890685-74A00	890677-74		DATA CARDS
890686AA	B3	SIGMA 5/6/7	ADMIS14-HIGH SCHOOL LIST
890686-11A00	890677-11		DESCRIPTION PRINTED
890686-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS
890686-74A00	890677-74		DATA CARDS
890687AA	B3	SIGMA 5/6/7	ADMIS15-SELECTIVE ENVELOPES/LABELS
890687-11A00	890677-11		DESCRIPTION PRINTED
890687-36A00	890677-36		SOURCE MAG TAPE, 9 CHANNELS

890688AA B3 SIGMA 5/6/7 ADMIS16-SELECTIVE LISTINGS
 890688-11A00 890677-11 DESCRIPTION PRINTED
 890688-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890689AA B3 SIGMA 5/6/7 ADMIS17-SHORT WEEKLY REPORTS
 890689-11A00 890677-11 DESCRIPTION PRINTED
 890689-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS
 890689-74A00 890677-74 DATA CARDS

890690AA B3 SIGMA 5/6/7 ADMIS19-STATISTICS BY STATE
 890690-11A00 890677-11 DESCRIPTION PRINTED
 890690-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS
 890690-74A00 890677-74 DATA CARDS

890691AA B3 SIGMA 5/6/7 ADMIS20-PROFILE BY SAT AND RANK
 890691-11A00 890677-11 DESCRIPTION PRINTED
 890691-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890692AA B3 SIGMA 5/6/7 ADMIS21-APPLICANT ACTIVITIES TOTALS
 890692-11A00 890677-11 DESCRIPTION PRINTED
 890692-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS
 890692-74A00 890677-74 DATA CARDS

890693AA B3 SIGMA 5/6/7 ADMIS22-ACTIVITY INTEREST ADDRESSES
 890693-11A00 890677-11 DESCRIPTION PRINTED
 890693-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890694AA B3 SIGMA 5/6/7 ADMIS25-FINANCIAL NEED MATRICES
 890694-11A00 890677-11 DESCRIPTION PRINTED
 890694-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890695AA B3 SIGMA 5/6/7 ADMIS26-FAMILY INCOME CHART
 890695-11A00 890677-11 DESCRIPTION PRINTED
 890695-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890696AA B3 SIGMA 5/6/7 ADMIS27-SELECTIVE COMPRESSED RECORDS
 890696-11A00 890677-11 DESCRIPTION PRINTED
 890696-36A00 890677-36 SOURCE MAG TAPE, 9 CHANNELS

890697AA B3 SIGMA 2/3 ROUTINES - REAL-TIME EXTENSIONS
 890697-11A00 DESCRIPTION PRINTED
 890697-34A00 SOURCE CARDS

890698AC B3 SIGMA 5-9 GENERAL I/O PACKAGE - GETPUT
 890698-11C00 DESCRIPTION PRINTED
 890698-36C00 SOURCE MAG TAPE, 9 CHANNELS
 890698-46C00 890698-36 COMPRESSED MAG TAPE, 9 CHANNELS
 890698-76C00 890698-36 TEST FILES ON TAPE

890699AA B3 SIGMA 5/6/7 GEFORT
 890699-11A00 DESCRIPTION PRINTED
 890699-44A00 COMPRESSED CARDS

890700AA B3 SIGMA 5/6/7 FREEFORM
 890700-11A00 DESCRIPTION PRINTED
 890700-44A00 COMPRESSED CARDS

890701AA B3 SIGMA 5/6/7 FORM
 890701-11A00 DESCRIPTION PRINTED
 890701-34A00 SOURCE CARDS

890702AA	B3	SIGMA 5/6/7	DETAB/65 PREPROCESSOR
890702-11A00			DESCRIPTION PRINTED
890702-34A00			SOURCE CARDS
890702-74A00			DATA CARDS
890703AA	B3	SIGMA 5/6/7	MOTHER-OPERATOR CONSOLE TAPE HANDLER
890703-11A00			DESCRIPTION PRINTED
890703-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
890704AB	B3	SIGMA 3	SIGMA 3 TO 1108 REMOTE JOB ENTRY (RBM)
890704-11A00			DESCRIPTION PRINTED
890704-34A01			SOURCE CARDS
890705AA	B3	SIGMA 3	SIGMA 3 TO 1108 REMOTE JOB ENTRY (BCH)
890705-11A00			DESCRIPTION PRINTED
890705-34A00			SOURCE CARDS
890706AA	B3	SIGMA 5/6/7	SCORE KEEPER FOR CONTINUING TOURNAMENTS
890706-11A00			DESCRIPTION PRINTED
890706-51A00	890706-11		LISTING PRINTED
890707AA	B3	SIGMA 5/6/7	BTM PLOTTING PACKAGE NONLABELING
890707-11A00			DESCRIPTION PRINTED
890707-33A00			SOURCE PAPER TAPE, 8 LEVELS
890707-73A00			DATA PAPER TAPE, 8 LEVELS
890708AA	B3	SIGMA 5/6/7	FORTRAN PRECOMPILER FORT 11-FORT 1VM
890708-11A00			DESCRIPTION PRINTED
890708-34A00			SOURCE CARDS
890709AA	B3	SIGMA 5/6/7	TIMER ELAPSED TIME SUBR FOR COBOL
890709-11A00			DESCRIPTION PRINTED
890709-34A00			SOURCE CARDS
890710AB	B3	SIGMA 2/3	SIGDAS- SIGMA DIGITAL ANALOG SIMULATOR
890710-11A00			DESCRIPTION PRINTED
890710-24A01			RELOCATABLE BINARY CARDS
890710-74A00	890710-24		LOW CORE BOOTSTRAP DECK
890711AA	B3	SIGMA 5/6/7	CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE
890711-11A00			DESCRIPTION PRINTED
890711-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890711-36A00	890711-26		SOURCE MAG TAPE, 9 CHANNELS
890712AA	B3	SIGMA 2/3	PRINTER PLOT SUBROUTINE
890712-11A00			DESCRIPTION PRINTED
890712-34A00			SOURCE CARDS
890713AA	B3	SIGMA 5/6/7	PRINTER PLOT SUBROUTINE
890713-11A00			DESCRIPTION PRINTED
890713-34A00			SOURCE CARDS
890714AA	B3	SIGMA 5/6/7	BATCH STREAM CARD LISTER
890714-11A00			DESCRIPTION PRINTED
890714-24A00			RELOCATABLE BINARY CARDS
890714-44A00			COMPRESSED CARDS
890715AB	B3	SIGMA 5-9	MIX ASSEMBLER/INTERPRETER SYSTEM
890715-11B00			DESCRIPTION PRINTED
890715-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890715-74B00			LOAD AND TEST DECK

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890716AA	B3 SIGMA 7	DREV APL
890716-11A00		DESCRIPTION PRINTED
890716-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890716-46A00	890716-26	COMPRESSED MAG TAPE, 9 CHANNELS
890716-76A00	890716-26	SAMPLE SYSOEN AAND LOAD DECKS ON MAG TAPE, 9 CHANNELS (4)
890717AA	B3 SIGMA 5-9	COBOL RESTART PROGRAM
890717-11A00		DESCRIPTION PRINTED
890717-34A00		SOURCE CARDS
890718AB	B3 SIGMA 5-9	SIGMA PROJECT MANAGEMENT SYSTEM (SPMS)
890718-11A01		DESCRIPTION PRINTED
890718-36A01		SOURCE MAG TAPE, 9 CHANNELS
890718-76A01	890718-36	LOAD AND TEST DECK ON TAPE
890719AA	B3 SIGMA 2/3	CONTINUOUS SYSTEM SIMULATOR (CSS/3)
890719-11A00		DESCRIPTION PRINTED
890719-36A00		SOURCE MAG TAPE, 9 CHANNELS
890719-74A00		COMPILE, LOAD AND TEST DECK
890720AA	B3 SIGMA 2/3	FCT DUMP ROUTINE (ELABORATED)
890720-11A00		DESCRIPTION PRINTED
890720-34A00		SOURCE CARDS
890721AA	B3 SIGMA 5/6/7	C36T64 CONVERT 36 BIT WORD TO 64 BIT
890721-11A00		DESCRIPTION PRINTED
890721-34A00		SOURCE CARDS
890723AA	B3 SIGMA 2/3	SIGMA PLOTTING LIBRARY
890723-11A00		DESCRIPTION PRINTED
890723-24A00		RELOCATABLE BINARY CARDS
890723-34A00		SOURCE CARDS
890724AA	B3 SIGMA 5-9	AUTOMATED MEDICAL HISTORY PROGRAM
890724-11A00		DESCRIPTION PRINTED
890724-36A00		SOURCE MAG TAPE, 9 CHANNELS
890725AB	B3 SIGMA 2/3	ROMLIST
890725-11B00		DESCRIPTION PRINTED
890725-34B00		SOURCE CARDS
890725-74B00		TEST DECK
890726AA	B3 SIGMA 2/3	RBM TRACE PROGRAM
890726-11A00		DESCRIPTION PRINTED
890726-34A00		SOURCE CARDS
890727AA	B3 SIGMA 5-9	CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM
890727-11A00		DESCRIPTION PRINTED
890727-44A00		COMPRESSED CARDS
890728AA	B3 SIGMA 5-9	POSITION TAPE PROGRAM FOR 7T/9T
890728-11A00		DESCRIPTION PRINTED
890728-11A00	705425-11	DESCRIPTION PRINTED
890728-24A00		RELOCATABLE BINARY CARDS
890728-44A00		COMPRESSED CARDS
890730AA	B3 SIGMA 5-9	SORT INTERFACE
890730-11A00		DESCRIPTION PRINTED
890730-34A00		SOURCE CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890732AA	B3	SIGMA 5-9	CALCOMP PLOTTER SUBROUTINE PACKAGE
890732-11A00			DESCRIPTION PRINTED
890732-36A00			SOURCE MAG TAPE, 9 CHANNELS
890732-51A00	890732-11		LISTING PRINTED
890733AA	B3	SIGMA 5/6/7	STAND-ALONE RAD EDITOR
890733-11A00			DESCRIPTION PRINTED
890733-44A00			COMPRESSED CARDS
890733-84A00			ABSOLUTE BINARY CARDS
890734AA	B3	SIGMA 5/6/7	SYSTEM DISC DUMP/RESTORE/AUTO BOOT
890734-11A00			DESCRIPTION PRINTED
890734-44A00			COMPRESSED CARDS
890734-84A00			ABSOLUTE BINARY CARDS
890735AA	B3	SIGMA 5/6/7	FACTORIAL FUNCTIONS FAC AND DFAC
890735-11A00			DESCRIPTION PRINTED
890735-34A00			SOURCE CARDS
890735-74A00			TEST DECK
890736AA	B3	SIGMA 5-9	ECD ENGLISH CODED DECIMAL
890736-11A00			DESCRIPTION PRINTED
890736-44A00			COMPRESSED CARDS
890737AA	B3	SIGMA 5-9	XCORE - EXTRA CORE FOR FORTRAN PROGRAMS
890737-11A00			DESCRIPTION PRINTED
890737-34A00			SOURCE CARDS
890738AA	B3	SIGMA 5-9	CALCOMP PLOTTING PACKAGE
890738-11A00			DESCRIPTION PRINTED
890738-44A00			COMPRESSED CARDS
890739AA	B3	SIGMA 5-9	PLOTTER HANDLER
890739-11A00			DESCRIPTION PRINTED
890739-44A00			COMPRESSED CARDS
890740AB	B3	SIGMA 2/3	IDEAL FORTRAN
890740-11A00			DESCRIPTION PRINTED
890740-34A01			SOURCE CARDS
890740-36A01			SOURCE MAG TAPE, 9 CHANNELS
890741AA	B3	SIGMA 2/3	BLOCKED RANDOM FILE ROUTINES
890741-11A00			DESCRIPTION PRINTED
890741-34A00			SOURCE CARDS
890741-36A00			SOURCE MAG TAPE, 9 CHANNELS
890742AC	B3	SIGMA 2/3-530	PHSORT
890742-11B00			DESCRIPTION PRINTED
890742-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890742-36B00	890742-26		SOURCE MAG TAPE, 9 CHANNELS
890742-76B00	890742-26		TEST CASE ON TAPE
890743AB	B3	SIGMA 5-9	UNIVAC 1108 COMMUNICATIONS CONTROL PROG.
890743-11A01			DESCRIPTION PRINTED
890743-36A00			SOURCE MAG TAPE, 9 CHANNELS
890743-46A00	890743-36		COMPRESSED MAG TAPE, 9 CHANNELS
890744AA	B3	SIGMA 2/3	AUTOMATED MEDICAL HISTORY PROGRAM
890744-11A00			DESCRIPTION PRINTED
890744-36A00			SOURCE MAG TAPE, 9 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890745AA	B3	SIGMA 5-9	CRSH - LOAD MODULE CRUSHER
890745-11A00			DESCRIPTION PRINTED
890745-34A00			SOURCE CARDS
890746AA	B3	SIGMA 5-9	COBOL TELETYPE INTERFACE SUBROUTINES
890746-11A00			DESCRIPTION PRINTED
890746-34A00			SOURCE CARDS
890747AA	B3	SIGMA 5-9	ADAPT - NUMERICAL CONTROL PROGRAM
890747-11A00			DESCRIPTION PRINTED
890747-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890747-36A00			SOURCE MAG TAPE, 9 CHANNELS
890748AA	B3	SIGMA 2/3-530	APT3 (LEVEL 3)
890748-11A00			DESCRIPTION PRINTED
890748-36A00			SOURCE MAG TAPE, 9 CHANNELS
890748-76A00	890748-36		LOAD TEST FILE
890749AA	B3	SIGMA 5-9	APT3 (LEVEL 3)
890749-11A00			DESCRIPTION PRINTED
890749-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890749-36A00	890749-26		SOURCE MAG TAPE, 9 CHANNELS
890749-76A00	890749-26		LOAD TEST FILE
890750AA	B3	SIGMA 5-9	EXTENDED ALGOL 60
890750-11A00			DESCRIPTION PRINTED
890750-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890751AA	B3	SIGMA 5-9	XREF
890751-11A00			DESCRIPTION PRINTED
890751-24A00			RELOCATABLE BINARY CARDS
890751-44A00			COMPRESSED CARDS
890752AA	B3	SIGMA 5-9	MAP PROCESSOR WITH SHELL SORT
890752-11A00			DESCRIPTION PRINTED
890752-24A00			RELOCATABLE BINARY CARDS
890752-44A00			COMPRESSED CARDS
890753AB	B3	SIGMA 6-9	APAM LIBRARIAN
890753-11B00			DESCRIPTION PRINTED
890753-36B00			SOURCE MAG TAPE, 9 CHANNELS
890754AA	B3	SIGMA 5-9	PAPLIST
890754-11A00			DESCRIPTION PRINTED
890754-34A00			SOURCE CARDS
890754-74A00	890754-34		TEST DECK
890756AA	B3	SIGMA 5-9	RBPRINT
890756-11A00			DESCRIPTION PRINTED
890756-34A00			SOURCE CARDS
890757AA	B3	SIGMA 5-9	KEYED/RANDOM FILES FOR FORTRAN IV
890757-11A00			DESCRIPTION PRINTED
890757-44A00			COMPRESSED CARDS
890757-74A00			TEST RUN DECK
890758AB	B3	SIGMA 5-9	EXECUTION ANALYZER PROGRAM (EAP)
890758-11B00			DESCRIPTION PRINTED
890758-44B00			COMPRESSED CARDS
890758-74B00			TEST DECK

890759AA	B3	SIGMA 5-9	FORTRAN RANDOM DISC
890759-11A00			DESCRIPTION PRINTED
890759-34A00			SOURCE CARDS
890763AA	B3	SIGMA 6/7/9	FLOPLOT - A UTS FLOWCHARTING PROGRAM
890763-11A00			DESCRIPTION PRINTED
890763-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890763-46A00	890763-26		COMPRESSED MAG TAPE, 9 CHANNELS
890763-76A00	890763-26		TEST DECK ON MAG TAPE
890764AB	B3	SIGMA 5-9	HASP REMOTE JOB ENTRY
890764-11A00			DESCRIPTION PRINTED
890764-44A01			COMPRESSED CARDS
890764-64A01	890764-44		UPDATE ON CARDS
890766AA	B3	SIGMA 5-9	THREE DIMENSION TRANSIENT HEAT TRANSFER
890766-11A00			DESCRIPTION PRINTED
890766-34A00			SOURCE CARDS
890767AA	B3	SIGMA 2/3	DISK PACK BOOTSTRAP SIMULATOR
890767-11A00			DESCRIPTION PRINTED
890767-34A00			SOURCE CARDS
890767-84A00			ABSOLUTE BINARY CARDS
890768AA	B3	SIGMA 6-9	DELETE STANDARD
890768-11A00			DESCRIPTION PRINTED
890768-26A00	890768-36		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890768-36A00			SOURCE MAG TAPE, 9 CHANNELS
890768-86A00	890768-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890769AA	B3	SIGMA 6-9	UNITNAME
890769-11A00			DESCRIPTION PRINTED
890769-34A00			SOURCE CARDS
890770AA	B3	SIGMA 6-9	XOSDEBE
890770-11A00			DESCRIPTION PRINTED
890770-34A00			SOURCE CARDS
890770-74A00			CATALOGUE PROCEDURES
890771AA	B3	SIGMA 6-9	HEBSORT
890771-11A00			DESCRIPTION PRINTED
890771-34A00			SOURCE CARDS
890772AA	B3	910	910 TRACE MODIFICATION
890772-11A00			DESCRIPTION PRINTED
890772-24A00			RELOCATABLE BINARY CARDS
890772-44A00			COMPRESSED CARDS
890773AA	B3	920	920 TRACE MODIFICATION
890773-11A00			DESCRIPTION PRINTED
890773-24A00			RELOCATABLE BINARY CARDS
890773-44A00			COMPRESSED CARDS
890774AA	B3	925	925 TRACE MODIFICATION
890774-11A00			DESCRIPTION PRINTED
890774-24A00			RELOCATABLE BINARY CARDS
890774-44A00			COMPRESSED CARDS
890775AA	B3	930	930 TRACE MODIFICATION
890775-11A00			DESCRIPTION PRINTED
890775-24A00			RELOCATABLE BINARY CARDS
890775-44A00			COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890776AA	B3	9-SERIES	FORTRAN FLOWCHARTER
890776-11A00			DESCRIPTION PRINTED
890776-34A00			SOURCE CARDS
890777AB	B3	SIGMA 5-9	EXPAND PROCESSOR
890777-11B00			DESCRIPTION PRINTED
890777-44B00			COMPRESSED CARDS
890778AA	B3	SIGMA 5-9	INTERACTIVE DMS DEBUG PACKAGE
890778-11A00			DESCRIPTION PRINTED
890778-36A00			SOURCE MAG TAPE, 9 CHANNELS
890778-86A00	B3	SIGMA 5-9	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890779AA	B3	SIGMA 5-9	QUERY SCHEMA PROCESSOR
890779-11A00			DESCRIPTION PRINTED
890779-36A00	B3	SIGMA 5-9	SOURCE MAG TAPE, 9 CHANNELS
890779-86A00	B3	SIGMA 5-9	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890783AA	B3	SIGMA 6/7/9	PATCH DCB
890783-11A00			DESCRIPTION PRINTED
890783-44A00			COMPRESSED CARDS
890785AA	B3	SIGMA 5-9	FUR - FILE UPDATE ROUTINE
890785-11A00			DESCRIPTION PRINTED
890785-44A00			COMPRESSED CARDS
890786AB	B3	SIGMA 6-9	TOMAS-TERMINAL ORIENTED MERGE & SORT
890786-11B00			DESCRIPTION PRINTED
890786-44B00			COMPRESSED CARDS
890787AB	B3	SIGMA 6-9	UTS ACCOUNTING SUMMARY
890787-11B00			DESCRIPTION PRINTED
890787-26B00	B3	SIGMA 6-9	RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890787-36B00	B3	SIGMA 6-9	SOURCE MAG TAPE, 9 CHANNELS
890788AA	B3	SIGMA 5-9	CALENDAR
890788-11A00			DESCRIPTION PRINTED
890788-34A00			SOURCE CARDS
890791AA	B3	SIGMA 7/8/9	CASPRE BPM
890791-11A00			DESCRIPTION PRINTED
890791-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
890793AA	B3	SIGMA 5-9	RBM SORT
890793-11A00			DESCRIPTION PRINTED
890793-44A00			COMPRESSED CARDS
890794AB	B3	SIGMA 5-9	RBM COPY PROCESSOR
890794-11B00			DESCRIPTION PRINTED
890794-44B00			COMPRESSED CARDS
890795AA	B3	SIGMA 5-9	XREF-XSYMBOL
890795-11A00			DESCRIPTION PRINTED
890795-44A00			COMPRESSED CARDS
890796AA	B3	SIGMA 5-9	TAPE FILE RETRIEVAL PROGRAM
890796-11A00			DESCRIPTION PRINTED
890796-44A00			COMPRESSED CARDS

890797AA	B3 SIGMA 5-9	PAGE BURSTER
890797-11A00		DESCRIPTION PRINTED
890797-44A00		COMPRESSED CARDS
890799AA	B3 SIGMA 7	XPL (GORDO) - XPL COMPILER
890799-11A00		DESCRIPTION PRINTED
890799-36A00		SOURCE MAG TAPE, 9 CHANNELS
890799-86A00	890799-36	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890801AB	B3 SIGMA 5-9	XPL
890801-11A00		DESCRIPTION PRINTED
890801-26A01		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890801-36A01	890801-26	SOURCE MAG TAPE, 9 CHANNELS
890802AA	B3 SIGMA 5-9	XBASIC - BTM VERSION
890802-11A00		DESCRIPTION PRINTED
890802-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890802-36A00	890802-26	SOURCE MAG TAPE, 9 CHANNELS
890802-76A00	890802-26	LOAD DECK ON TAPE
890802-86A00	890802-26	ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890804AD	B3 SIGMA 6-9	GRAPHER
890804-11E00		DESCRIPTION PRINTED
890804-26E00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890804-36E00	890804-26	SOURCE MAG TAPE, 9 CHANNELS
890804-76E00	890804-26	TEST AND SAMPLE FILES ON TAPE
890808AA	B3 SIGMA 5-9	FUNCTION TABLE PROCESSOR
890808-11A00		DESCRIPTION PRINTED
890808-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890808-36A00	890808-26	SOURCE MAG TAPE, 9 CHANNELS
890808-76A00	890808-26	TEST FILES ON TAPE
890809AA	B3 SIGMA 6-9	FAST SAVE/RESTORE - CP-V
890809-11A00		DESCRIPTION PRINTED
890809-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890809-36A00	890809-26	SOURCE MAG TAPE, 9 CHANNELS
890809-46A00	890809-26	COMPRESSED MAG TAPE, 9 CHANNELS
890809-76A00	890809-26	TEST DECK ON MAG TAPE
890810AA	B3 SIGMA 5-9	FAST FPURGE RESTORE - BPM
890810-11A00		DESCRIPTION PRINTED
890810-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890810-36A00	890810-26	SOURCE MAG TAPE, 9 CHANNELS
890810-46A00	890810-26	COMPRESSED MAG TAPE, 9 CHANNELS
890810-76A00	890810-26	TEST DECK
890812AA	B3 SIGMA 5-9	RBM METASYMBOL
890812-11A00		DESCRIPTION PRINTED
890812-26A00		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890812-46A00	890812-26	COMPRESSED MAG TAPE, 9 CHANNELS
890812-66A00	890812-26	UPDATE ON MAG TAPE, 9 CHANNELS
890813AA	B3 SIGMA 6-9	XEROX/COAST CAL/APL
890813-11A00		DESCRIPTION PRINTED
890813-36A00		SOURCE MAG TAPE, 9 CHANNELS
890814AA	B3 SIGMA 2/3	LEAST-SQUARES W/ ORTHOGONAL POLYNOMIALS
890814-11A00		DESCRIPTION PRINTED
890814-34A00		SOURCE CARDS
890814-74A00		TEST DATA DECK
890815AB	B3 SIGMA 6-9	PRINT FORMS PROCESSOR
890815-11A00		DESCRIPTION PRINTED
890815-44A00		COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890816AA	B3	SIGMA 6-9	DECLARE TEMPORARY FILES
890816-11A00			DESCRIPTION PRINTED
890816-34A00			SOURCE CARDS
890817AA	B3	SIGMA 6-9	FILE DUMP
890817-11A00			DESCRIPTION PRINTED
890817-36A00			SOURCE MAG TAPE, 9 CHANNELS
890818AA	B3	SIGMA 6-9	CATALOG PROCEDURES
890818-11A00			DESCRIPTION PRINTED
890818-36A00			SOURCE MAG TAPE, 9 CHANNELS
890820AA	B3	SIGMA 6-9	UTS FORM DATA ENTRY PACKAGE - FORM PAK
890820-11A00			DESCRIPTION PRINTED
890820-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890820-36A00	890820-26		SOURCE MAG TAPE, 9 CHANNELS
890820-76A00	890820-26		LOAD DECK ON TAPE
890821AB	B3	SIGMA 2/3	TIME-SHARING PROCESSOR
890821-11A00			DESCRIPTION PRINTED
890821-36A01			SOURCE MAG TAPE, 9 CHANNELS
890823AA	B3	SIGMA 5-9	SNOBOL4 VERSION 3.7
890823-11A00			DESCRIPTION PRINTED
890823-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890823-46A00	890823-26		COMPRESSED MAG TAPE, 9 CHANNELS
890823-76A00	890823-26		TEST PROGRAM
890824AA	B3	SIGMA 2/3	AUTODUMP
890824-11A00			DESCRIPTION PRINTED
890824-34A00			SOURCE CARDS
890825AA	B3	SIGMA 3	RBM E01 MODIFICATIONS-ASCII TAPE HANDLER
890825-11A00			DESCRIPTION PRINTED
890825-26A00	890825-36		RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890825-36A00			SOURCE MAG TAPE, 9 CHANNELS
890825-86A00	890825-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890826AB	B3	SIGMA 5-9	ROM TAPE FILE UPDATE PROGRAM - ROMUP
890826-11B00			DESCRIPTION PRINTED
890826-36B00			SOURCE MAG TAPE, 9 CHANNELS
890827AA	B3	SIGMA 2/3	CONTOUR MAP PLOTTING SYSTEM
890827-11A00			DESCRIPTION PRINTED
890827-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890827-74A00			LOAD AND TEST DECK
890828AA	B3	SIGMA 5-9	SPLURGE FOR BPM
890828-11A00			DESCRIPTION PRINTED
890828-44A00			COMPRESSED CARDS
890829AA	B3	SIGMA 6-9	SPLURGE FOR UTS
890829-11A00			DESCRIPTION PRINTED
890829-44A00			COMPRESSED CARDS
890831AA	B3	SIGMA 7	IBM-XEROX APL WORKSPACE CONVERTER
890831-11A00			DESCRIPTION PRINTED
890831-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890831-36A00	890831-26		SOURCE MAG TAPE, 9 CHANNELS
890831-46A00	890831-26		COMPRESSED MAG TAPE, 9 CHANNELS

890832AA B3 SIGMA 6/7/9 IBM-XEROX APL FILE CONVERTER
 890832-11A00 DESCRIPTION PRINTED
 890832-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890832-46A00 890832-26 COMPRESSED MAG TAPE, 9 CHANNELS
 890832-86A00 890832-26 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890833AB B3 SIGMA 5-9 PAPER TAPE READ PROGRAM - TRANSLT
 890833-11B00 DESCRIPTION PRINTED
 890833-36B00 SOURCE MAG TAPE, 9 CHANNELS

890834AA B3 SIGMA 6-9 INTERACTIVE CRITICAL PATH
 890834-11A00 DESCRIPTION PRINTED
 890834-26A00 890834-36 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890834-36A00 SOURCE MAG TAPE, 9 CHANNELS
 890834-76A00 890834-36 TEST DECK ON MAG TAPE

890835AA B3 SIGMA 6-9 POLYNOMIAL CURVE FITTING
 890835-11A00 DESCRIPTION PRINTED
 890835-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890835-36A00 890835-26 SOURCE MAG TAPE, 9 CHANNELS
 890835-76A00 890835-26 TEST DECK ON TAPE

890836AA B3 SIGMA 6-9 INTERACTIVE MULTIPLE LINEAR REGRESSION
 890836-11A00 DESCRIPTION PRINTED
 890836-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890836-36A00 890836-26 SOURCE MAG TAPE, 9 CHANNELS
 890836-76A00 890836-26 TEST DECK ON MAG TAPE

890837AA B3 SIGMA 5-9 DISCRETE SIMULATION PACKAGE - SIMPAC
 890837-11A00 DESCRIPTION PRINTED
 890837-36A01 SOURCE MAG TAPE, 9 CHANNELS

890838AA B3 SIGMA 6-9 INTERACTIVE CONTINUOUS SIMULATION
 890838-11A00 DESCRIPTION PRINTED
 890838-36A00 SOURCE MAG TAPE, 9 CHANNELS
 890838-76A00 890838-36 LOAD DECK
 890838-86A00 890838-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890839AA B3 SIGMA 6-9 INTERACTIVE ANALYSIS OF VARIANCE
 890839-11A00 DESCRIPTION PRINTED
 890839-36A00 SOURCE MAG TAPE, 9 CHANNELS
 890839-76A00 890839-36 LOAD DECK ON TAPE
 890839-86A00 890839-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS

890840AA B3 SIGMA 6-9 INTERACTIVE PLOTTING PROGRAM
 890840-11A00 DESCRIPTION PRINTED
 890840-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890840-36A00 890840-26 SOURCE MAG TAPE, 9 CHANNELS
 890840-76A00 890840-26 LOAD DECK ON TAPE

890841AA B3 SIGMA 6-9 INTERACTIVE CROSS TABULATION
 890841-11A00 DESCRIPTION PRINTED
 890841-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890841-36A00 890841-26 SOURCE MAG TAPE, 9 CHANNELS
 890841-76A00 890841-26 LOAD DECK ON TAPE

890842AA B3 9-SERIES SYSGEN 2 - B00 MONARCH
 890842-11A00 DESCRIPTION PRINTED
 890842-74A00 BINARY SYSGEN DECK

890843AB B3 SIGMA 5-9 CONTROL CARD FILER
 890843-11A01 DESCRIPTION PRINTED
 890843-26A01 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890843-36A01 890843-26 SOURCE MAG TAPE, 9 CHANNELS
 890843-46A01 890843-26 COMPRESSED MAG TAPE, 9 CHANNELS

890846AA	B3	SIGMA 5-9	ALTRAN RUN-TIME ROUTINES
890846-11A00			DESCRIPTION PRINTED
890846-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
890850AA	B3	SIGMA 5-9	UCLA BIOMEDICAL STATISTICAL PACKAGE-BMD
890850-11A00			DESCRIPTION PRINTED
890850-36A00			SOURCE MAG TAPE, 9 CHANNELS
890850-76A00	890850-36		LOAD AND TEST FILES ON TAPE
890858AA	B3	SIGMA 6-9	DISPLAY SET DCB'S
890858-11A00			DESCRIPTION PRINTED
890858-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890858-36A00	890858-26		SOURCE MAG TAPE, 9 CHANNELS
890858-76A00	890858-26		LOAD DECK ON TAPE
890858-86A00	890858-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890865AA	B3	SIGMA 6/7/9	INTERACTIVE LEAST SQUARES CURVE FITTING
890865-11A00			DESCRIPTION PRINTED
890865-36A00			SOURCE MAG TAPE, 9 CHANNELS
890865-86A00	890865-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890866AA	B3	SIGMA 6/7/9	INTERACTIVE MULTIPLE REGRESSION ANALYSIS
890866-11A00			DESCRIPTION PRINTED
890866-36A00			SOURCE MAG TAPE, 9 CHANNELS
890866-86A00	890866-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890867AA	B3	SIGMA 6/7/9	INTERACTIVE STEPWISE REGRESSION PROGRAM
890867-11A00			DESCRIPTION PRINTED
890867-36A00			SOURCE MAG TAPE, 9 CHANNELS
890867-86A00	890867-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890868AA	B3	SIGMA 6/7/9	INTERACTIVE TRANSGENERATION
890868-11A00			DESCRIPTION PRINTED
890868-36A00			SOURCE MAG TAPE, 9 CHANNELS
890868-86A00	890868-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890869AA	B3	SIGMA 6/7/9	MOMENTS OF INERTIA & RADIUS OF GYRATION
890869-11A00			DESCRIPTION PRINTED
890869-36A00			SOURCE MAG TAPE, 9 CHANNELS
890869-86A00	890869-36		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890870AA	B3	SIGMA 5-9	CLEBSCH-GORDAN SUBROUTINE
890870-11A00			DESCRIPTION PRINTED
890870-34A00			SOURCE CARDS
890871AA	B3	SIGMA 6/7/9	GRAPHICS SUBROUTINES
890871-11A00			DESCRIPTION PRINTED
890871-36A00			SOURCE MAG TAPE, 9 CHANNELS
890872AA	B3	SIGMA 6/7/9	GRAPHIC VECTOR FILE
890872-11A00			DESCRIPTION PRINTED
890872-36A00			SOURCE MAG TAPE, 9 CHANNELS
890873AA	B3	SIGMA 5-9	SIMS19
890873-11A00			DESCRIPTION PRINTED
890873-34A00			SOURCE CARDS
890876AB	B3	SIGMA 5	METASYMBOL SOURCE PROGRAM COMPARER
890876-11B00			DESCRIPTION PRINTED
890876-26B00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890876-46B00	890876-26		COMPRESSED MAG TAPE, 9 CHANNELS

890877AA B3 SIGMA 5-9 BROWSE - INTERACTIVE INDEXED TEXT SYSTEM
 890877-11A00 DESCRIPTION PRINTED
 890877-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890877-36A00 890877-26 SOURCE MAG TAPE, 9 CHANNELS
 890877-76A00 890877-26 LOAD AND TEST FILES ON TAPE

890878AA B3 SIGMA 5-9 TRISTIMULUS TO MUNSELL COLOR TRANSLATOR
 890878-11A00 DESCRIPTION PRINTED
 890878-34A00 SOURCE CARDS
 890878-74A00 DATA DEC

890879AA B3 SIGMA 2/3-530 BUFFERIN/BUFFEROUT
 890879-11A00 DESCRIPTION PRINTED
 890879-34A00 SOURCE CARDS

890881AA B3 SIGMA 5-9 DEMAND PAGED FORTRAN ARRAYS
 890881-11A00 DESCRIPTION PRINTED
 890881-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890881-36A00 890881-26 SOURCE MAG TAPE, 9 CHANNELS
 890881-76A00 890881-26 TEST CASE ON TAPE

890882AA B3 9300 SAM9300-SELECTIVE AUTO MONITOR PROGRAM
 890882-11A00 DESCRIPTION PRINTED
 890882-44A01 COMPRESSED CARDS
 890882-74A01 890882-44 LOAD DECK

890884AA B3 9300 CARD READER/PUNCH DIAGNOSTIC PROGRAM
 890884-11A00 DESCRIPTION PRINTED
 890884-34A00 SOURCE CARDS
 890884-44A00 890884-34 COMPRESSED CARDS

890885AA B3 9300 MAGNETIC TAPE TEST PROGRAM
 890885-11A00 DESCRIPTION PRINTED
 890885-34A00 SOURCE CARDS
 890885-44A00 890885-34 COMPRESSED CARDS

890886AA B3 9300 16K DGC NOVA SIMULATOR
 890886-11A00 DESCRIPTION PRINTED
 890886-34A00 SOURCE CARDS
 890886-44A00 890886-34 COMPRESSED CARDS
 890886-74A00 890886-34 TEST PROGRAM

890890AB B3 SIGMA 5-9 UCLA BIOMEDICAL PROG.-REGULAR & X SERIES
 890890-11B00 DESCRIPTION PRINTED
 890890-36B00 SOURCE MAG TAPE, 9 CHANNELS
 890890-46B00 890890-36 COMPRESSED MAG TAPE, 9 CHANNELS

890894AA B3 SIGMA 5-9 APEXTCLP
 890894-11A00 DESCRIPTION PRINTED
 890894-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 890894-36A00 890894-26 SOURCE MAG TAPE, 9 CHANNELS
 890894-46A00 890894-26 COMPRESSED MAG TAPE, 9 CHANNELS
 890894-74A00 DATA AND TEST PROGRAM ON CARDS

890895AA B3 SIGMA 6/7/9 AUTOMATED PROCUREMENT STATUS (APS) SYS.
 890895-02A00 UNPUBLISHED TECHNICAL DOCUMENTATION
 890895-11A00 DESCRIPTION PRINTED
 890895-36A00 SOURCE MAG TAPE, 9 CHANNELS
 890895-74A00 RUN DECK

890896AB B3 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS
 890896-11A00 DESCRIPTION PRINTED
 890896-85A01 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890897AA	B3	SIGMA 3	DECIPHER SUBROUTINE
890897-11A00			DESCRIPTION PRINTED
890897-34A00			SOURCE CARDS
890902AA	B3	SIGMA 3	BOOLEAN SUBROUTINES
890902-11A00			DESCRIPTION PRINTED
890902-34A00			SOURCE CARDS
890902-74A00			DATA AND TEST PROGRAMS
890903AA	B3	SIGMA 3	XGP-OUT
890903-11A00			DESCRIPTION PRINTED
890903-34A00			SOURCE CARDS
890910AA	B3	SIGMA 6-9/550/560	XEROX TO CONTROL DATA RJE (XCDRJE)
890910-11A00			DESCRIPTION PRINTED
890910-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890910-36A00	890910-26		SOURCE MAG TAPE, 9 CHANNELS
890910-76A00	890910-26		TEST ON TAPE
890910-86A00	890910-26		ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
890911AA	B3	SIGMA 3-530	STATISTICAL SYSTEM - STATSYS
890911-11A00			DESCRIPTION PRINTED
890911-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890911-36A00	890911-26		SOURCE MAG TAPE, 9 CHANNELS
890911-76A00	890911-26		LOAD TEST FILE ON MAG TAPE
890916AA	B3	SIGMA 6/7/9	FRAN
890916-11A00			DESCRIPTION PRINTED
890916-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890916-36A00	890916-26		SOURCE MAG TAPE, 9 CHANNELS
890923AA	B3	SIGMA 5-9	XPL/S COMPILER
890923-11A00			DESCRIPTION PRINTED
890923-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890923-36A00	890923-26		SOURCE MAG TAPE, 9 CHANNELS
890923-46A00	890923-26		COMPRESSED MAG TAPE, 9 CHANNELS
890926AA	B3	XEROX 530	DEMAND PAGER
890926-11A00			DESCRIPTION PRINTED
890926-34A00			SOURCE CARDS
890926-74A00			DATA AND TEST DECK
890927AA	B3	SIGMA 3-530	LSDMF - FORTRAN CALLABLE SORT
890927-11A00			DESCRIPTION PRINTED
890927-34A00			SOURCE CARDS
890927-74A00	890927-34		TEST DECK
890928AA	B3	SIGMA 6/7/9	BATQXCH - BATCH QUEUE EXCHANGER
890928-11A00			DESCRIPTION PRINTED
890928-44A00			COMPRESSED CARDS
890929AB	B3	SIGMA 6/7/9	APL LEARNING AID - CLASS, APL COURSE
890929-11A00			DESCRIPTION PRINTED
890929-26A01			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890930AA	B3	SIGMA 6/7/9	GRAN
890930-11A00			DESCRIPTION PRINTED
890930-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890930-36A00	890930-26		SOURCE MAG TAPE, 9 CHANNELS
890931AA	B3	XEROX SCU	DOUBLE PRECISION MULTIPLY
890931-11A00			DESCRIPTION PRINTED
890931-34A00			SOURCE CARDS

890932AA	B3	XEROX SCU	DOUBLE PRECISION DIVIDE
890932-11A00			DESCRIPTION PRINTED
890932-34A00			SOURCE CARDS
890933AA	B3	SIGMA 5-9	MSP
890933-11A00			DESCRIPTION PRINTED
890933-36A00			SOURCE MAG TAPE, 9 CHANNELS
890933-46A00	890933-36		COMPRESSED MAG TAPE, 9 CHANNELS
890934AA	B3	SIGMA 5-9	XPLSREF
890934-11A00			DESCRIPTION PRINTED
890934-34A00			SOURCE CARDS
890935AA	B3	SIGMA 5-9	XPLSFMT
890935-11A00			DESCRIPTION PRINTED
890935-34A00			SOURCE CARDS
890936AA	B3	SIGMA 5-9	MERGE
890936-11A00			DESCRIPTION PRINTED
890936-34A00			SOURCE CARDS
890938AA	B3	SIGMA 7/8/9	FLASH - TAPE TO PRINT UTILITY
890938-11A00			DESCRIPTION PRINTED
890938-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
890938-76A00	890938-46		TEST ON MAG TAPE
890940AA	B3	SIGMA 5-9	SOLE: SIGMA OBJECT LANGUAGE EATER
890940-11A00			DESCRIPTION PRINTED
890940-44A00			COMPRESSED CARDS
890941AA	B3	SIGMA 6/7/9	SFTRAN
890941-11A00			DESCRIPTION PRINTED
890941-44A00			COMPRESSED CARDS
890942AA	B3	SIGMA 5-9	SYHCON (BPM/BTM)
890942-11A00			DESCRIPTION PRINTED
890942-44A00			COMPRESSED CARDS
890944AA	B3	SIGMA 6/7/9	TIMESHARING SIMULATOR
890944-11A00			DESCRIPTION PRINTED
890944-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890944-36A00	890944-26		SOURCE MAG TAPE, 9 CHANNELS
890944-46A00	890944-26		COMPRESSED MAG TAPE, 9 CHANNELS
890944-76A00	890944-26		DATA TEST TAPE
890953AA	B3	SIGMA 6-9	1200 LISTER
890953-11A00			DESCRIPTION PRINTED
890953-44A00			COMPRESSED CARDS
890954AA	B3	SIGMA 6-9	AUTO SCHEDULE
890954-11A00			DESCRIPTION PRINTED
890954-46A00			COMPRESSED MAG TAPE, 9 CHANNELS
890954-76A00	890954-46		TEST ON MAG TAPE
890955AA	B3	SIGMA 5-9	BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE
890955-11A00			DESCRIPTION PRINTED
890955-44A00			COMPRESSED CARDS

PROGRAM AVAILABILITY LIST

STATUS OF AVAILABLE PROGRAMS

890956AA	B3	SIGMA 5-9	SCOMPARE-SOURCE FILE COMPARISON PROGRAM
890956-11A00			DESCRIPTION PRINTED
890956-36A00			SOURCE MAG TAPE, 9 CHANNELS
890956-76A00	890956-36		TEST DATA TAPE
890958AA	B3	SIGMA 5-9	SYSTEM RBM
890958-11A00			DESCRIPTION PRINTED
890958-44A00			COMPRESSED CARDS
890959AA	B3	SIGMA 5-9	SYSTEM XPL/S
890959-11A00			DESCRIPTION PRINTED
890959-34A00			SOURCE CARDS
890961AA	B3	SIGMA 3	XGP - VAR
890961-11A00			DESCRIPTION PRINTED
890961-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
890962AA	B3	SIGMA 5-9	ROMLIB
890962-11A00			DESCRIPTION PRINTED
890962-36A00			SOURCE MAG TAPE, 9 CHANNELS
890963AA	B3	9-SERIES	MAGTP
890963-11A00			DESCRIPTION PRINTED
890963-34A00			SOURCE CARDS
890964AA	B3	9-SERIES	MTAPE
890964-11A00			DESCRIPTION PRINTED
890964-34A00			SOURCE CARDS
890965AA	B3	9-SERIES	SYMBOL
890965-11A00			DESCRIPTION PRINTED
890965-34A00			SOURCE CARDS
890966AA	B3	SIGMA 5-9/550/580	GRADPACK
890966-11A00			DESCRIPTION PRINTED
890966-34A00			SOURCE CARDS
890967AA	B3	SIGMA 5-9	BLOCKED AND OVERLAPPED I/O PACKAGE
890967-11A00			DESCRIPTION PRINTED
890967-36A00			SOURCE MAG TAPE, 9 CHANNELS
890967-76A00	890967-36		TEST ON MAG TAPE
891000AA	B3	SIGMA 5-9	APT3 (LEVEL 3) LATHE POSTPROCESSOR
891000-11A00			DESCRIPTION PRINTED
891000-26A00			RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
891000-36A00	891000-26		SOURCE MAG TAPE, 9 CHANNELS
891000-76A00	891000-26		TEST ON MAG TAPE

SIGMA 2/3-530 REAL TIME BATCH MONITORSYSTEM CATALOG NUMBER.

705368

DESCRIPTION

RBM provides an efficient operating system for multi-task real time applications requiring minimal core memory residency. Dynamic overlay of core memory on a priority basis from a RAD file is available for the foreground and the background. This feature is used extensively by the monitor, greatly reducing core residency requirements. Multi-task foreground operations can be performed concurrently with a batch background process. The RBM system includes the following processors: Overlay Loader, Extended SYMBOL Assembler**, RAD Editor, Basic FORTRAN IV Compiler, **Analyze Exercise**, Utility Package, Extended and Single Precision Fortran Libraries, **ELLA (Error Log List)** and Character Oriented Communication Handler (RCOC)*.

* Optional Foreground Programs

** ROM's only, order source through individual catalog numbers

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
705368	RBM Operating System
<u>Manuals</u>	<u>Description</u>
903054	Xerox Availability Features
903036	RBM System Management Reference Manual
901785	RBM Users Guide
901037	Real-Time Batch Monitor Reference Manual
901555	Real-Time Batch Monitor Operations Manual
901052	Extended Symbol Reference Manual
900967	Basic FORTRAN/FORTRAN IV Reference Manual
901525	Basic FORTRAN IV Operations Manual

PROCESSORS AVAILABLE

<u>Catalog No.</u>	<u>Description</u>
705372	RBM Extended Symbol
706277	Sigma 2/3-530 ANS Fortran IV (MODE 2)
706257	530 Disk Sort
706401	530 RPG Report Program Generator
706463	Sigma 2/3-530 ANS Fortran IV (MODE 1)
<u>Manuals</u>	<u>Description</u>
901806	Sigma 2/3 ANS Fortran IV Reference Manual
901787	Xerox 530 Disk Sort Reference Manual
901841	Xerox Report Program Generator (RPG II) Reference Manual
901807	Sigma 2/3 ANS Fortran IV OPS Manual

NOTE: ANS Fortran IV is available in two modes. Mode 1 is to be used for computers with the Floating Point Arithmetic option. Mode 2 is to be used for computers without the option.

XEROX 530 AND SIGMA 2/3 BASIC CONTROL MONITOR (BCM)SYSTEM CATALOG NUMBER

704457

DESCRIPTION

Xerox 530 and Sigma 2/3 BCM provides a convenient, responsive operating environment facilitating handling of real time foreground processes while production tasks proceed in the background. BCM runs on a minimal configuration; the resident portion occupies a minimum of 2K memory. The BCM System includes the following processors: System Loader, Linking Loader, SYMBOL Assembler, Basic FORTRAN Compiler, Utility Package, CONCORDANCE Program, DEBUG Program and FORTRAN Library.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
704457	BCM Operating System
<u>Manuals</u>	<u>Description</u>
901064	Sigma 2/3 BCM Reference Manual
901506	Sigma 2/3 BCM Operations Manual
900967	Sigma 2/3 Basic Fortran Reference Manual
901061	Sigma 2/3 Basic Fortran IV Operations Manual
901051	Sigma 2/3 Symbol Reference Manual

530 DISK SORTCATALOG NUMBER

706257

DESCRIPTION

Xerox DISK SORT provides the user with a highly efficient and powerful tool for the rearrangement of data files. This sort operates on Xerox 530 or Sigma 3 with a minimum of 16K words of core and having at least one rotating storage device. Sort executes as a background processor under the real-time batch monitor, thus allowing foreground programs to run concurrently.

<u>Manuals</u>	<u>Description</u>
901787	Xerox 530 Disk Sort Reference Manual

SIGMA 2 STAND-ALONE

SYSTEM CATALOG NUMBER.

704955

DESCRIPTION

This catalog number is a cover number for the stand-alone software package. This software is designed to assist in exercising control over a minimal hardware configuration. The stand-alone software includes an operator communication package, a utility I/O handler (U:IOCS), a relocatable loader, an absolute loader, a symbol assembler, a debug program, a concordance program and a multiply/divide instruction simulation program.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
704955	S/A Software (Cover)
704956	S/A Sysload Package
704450	S/A Symbol
705294	S/A Concordance Operations Manual
704511	Sigma 2 Mult/Div Simulation
<u>Manuals</u>	<u>Description</u>
901047	Xerox Sigma 2 Computer Stand-Alone Systems Operations Manual
901051	Xerox Sigma 2 Symbol Reference Manual

RBM EXTENDED SYMBOL

CATALOG NUMBER

705372

DESCRIPTION

EXTENDED SYMBOL, the extended assembly system for Xerox 530 and Sigma 2/3 computers is both a programming language and a language processor. The EXTENDED SYMBOL processor accepts a source program coded in either SYMBOL (Basic Assembly Language) or EXTENDED SYMBOL, processes it and outputs a relocatable or absolute object module, diagnostic messages, assembly listings, symbol table summary, and a symbol table cross reference listing.

<u>Manuals</u>	<u>Description</u>
901052	Xerox Extended Symbol/LN, Operations Reference Manual

ANS FORTRAN IVCATALOG NUMBER

706277	Sigma 2/3 (mode 2)*
706463	Xerox 530 (mode 1)*

DESCRIPTION

Xerox ANS FORTRAN IV is a superset of ANSI FORTRAN X3.9-1966, and as such, provides features in excess of that defined by the specification. The System consists of a compiler and associated run-time library. ANS FORTRAN IV requires a Xerox 530 or Sigma 2 or 3 with RBM (E00 Version or later for Sigma 2/3, F00 or later for Xerox 530) with at least 8.5K of background. In-line symbolic or object listings require a background of 9.5K words. In order to reassemble the compiler, the minimum background allocation is 18K words.

<u>Manuals</u>	<u>Description</u>
901806	ANS FORTRAN IV Language/Reference Manual
901807	ANS FORTRAN IV Operations/Reference Manual
901835	ANS FORTRAN IV Library Technical Manual

*NOTE: Mode 1 is to be used with computers with the Floating Point Arithmetic Option. Mode 2 is to be used for computers without the option.

530 RPG II REPORT PROGRAM GENERATORCATALOG NUMBER

706401

DESCRIPTION:

The Xerox 530 RPG/II compiler is an implementation of the RPG/II language designed to be compatible with the majority of other RPG II processors in general use throughout industry. RPG/II is a highly flexible and convenient language designed to solve commercial data processing problems. Solutions are coded on a series of specification forms. Xerox 530 RPG/II operates under control of the Real-Time Batch Monitor (RBM).

<u>Manuals</u>	<u>Description</u>
901841	Xerox Report Program Generator (RPG II) Reference Manual

XEROX SATELLITE PROCESSORCATALOG NUMBER

706491

DESCRIPTION

The Xerox Satellite Processor is implemented as a resident, semi-resident, or nonresident overlaid foreground program operating under RBM. It provides Xerox 530 or Sigma 3 sites with a capability for high-speed telecommunications with other host remote computer systems.

The Satellite Processor's basic function is to move streams of sequential data from source devices or files to destination devices or files at the request of the operator, providing a convenient means for the Xerox 530 or Sigma 3 user to utilize the full resources of a larger host or to exchange data with another workstation. Remote activities may occur concurrently with local foreground and background processing, subject to device and resource availability. Spooling or remote data via magnetic tape is supported. An unblocked sequential file may replace a magnetic tape for spooling.

The Satellite Processor requires the use of RBM version F01 or later as an operating system. The Processor uses the HASP (Houston Automatic Spooling Priority System) bisynchronous multileaving protocol, and therefore requires that any host or remote terminal accessed use the HASP protocol.

The Processor will support only line speeds between 2000 bits per second (BPS) and 9600 bps. Support for line speeds outside this range must be handled via Field Request.

ManualsDescription

903078

Xerox Satellite Processor Operations Reference Manual

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
A.C. ELECTRONICS DATA ACQUISITION...		705729	B3	COMMAND SYS I, SECT 3-DATA BASE LOADING...		705667	B3
ACQUISITION...A.C. ELECTRONICS DATA		705729	B3	COMMAND SYS I,SECT 4-TELEMETRY AND TONES..		704209	B3
ADAPTER DIAGNOSTIC...8050 EXTERNAL MEMORY		704449	B1	COMMAND SYS II, SECT 1-MESSAGE PROCESSOR..		704028	B3
ADS-10 SIU DIAGNOSTIC...		705385	B1	COMMAND SYS II, SECT 2-FSK TAPE INPUT...		705666	B3
ADS-10 SIU DIAGNOSTIC...7915/		705382	B1	COMMAND SYS II,SECT 3-TONE/DIGITAL TAPE...		704034	B3
ANALOG DIAG. PROG...MODIFIED 7910/14/22		705382	B1	COMMAND SYS II,SECT 4-FSK TEST...		704035	B3
ANALOG REDUCTION REPORT GENERATOR...		705378	B3	COMMAND SYS II,SECT 5-TONES DIGITAL TEST..		704036	B3
ANALOG SIMULATOR...SIGDAS- SIGMA DIGITAL		890710	B3	COMMAND SYS II,SECT 6-IO CONTROL/UTILITY..		704037	B3
ANALYSIS PROGRAM...ERROR LOG LIST/		706481	B1	COMMERCIAL SUBSET FOR BUS. APPLICATIONS...		890579	B3
ANALYZE...RBM		706464	B1	COMMUNICATION TEST...CHARACTER ORIENTED		704014	B1
ANS COBOL COMPILER...XEROX 530		706500	B1	COMPILER...RBM BASIC FORTRAN IV		705375	B1
ANS FORTRAN IV...		706277	B1	COMPILER...XEROX 530 ANS COBOL		706500	B1
ANS FORTRAN IV...		706463	B1	COMPREHENSIVE CARD EQUIPMENT TEST...		708170	B1
APPLICATIONS...COMMERCIAL SUBSET FOR BUS.		890579	B3	COMPREHENSIVE LINE PRINTER TEST...		708168	B1
AP3 (LEVEL 3)...		890748	B3	COMPREHENSIVE RAD TEST...		705883	B1
ARITHMETIC OPERATION...EXTENDED		705386	B3	COMPRESSED TO SYMBOLIC CONVER...RECON S/A		706241	B3
ASCII TAPE HANDLER...RBM EOI MODIFICATIONS		890825	B3	COMPRESSED TO SYMBOLIC CONVERTER...RECON		706239	B3
ASR/KSR)(16-BIT)...XEROX KEYBOARD PRINTER		705652	B1	COMPRESSOR FOR RBM/BCH...SYMBOLIC		706246	B3
ASSEMBLER CDC-6400...SIGMAS-XDS SIGMA 2/3		890670	B3	COMPRESSOR FOR STAND-ALONE...SYMBOLIC		706245	B3
ASSEMBLER...BCH SYMBOL		704990	B1	CONCORDANCE...RBM		705374	B1
ASSEMBLER...STAND-ALONE SYMBOL		704450	B1	CONCORDANCE...STAND-ALONE		705294	B1
AUTO DIAL EQUIPMENT PROGRAM...		704156	B1	CONTINUOUS SYSTEM SIMULATOR (CSS/3)...		890719	B3
AUTO...CPU DIAGNOSTIC -		705530	B3	CONTOUR MAP PLOTTING SYSTEM...		890827	B3
AUTO)...CPU DIAGNOSTIC SYSTEM (		704011	B3	CONTROLLER DIAGNOSTIC...DATA SET		704055	B1
AUTODUMP...		890824	B3	CONTROLLER 7601 HANDLER...MOC		705895	B3
AUTOMATED MEDICAL HISTORY PROGRAM...		890744	B3	CONVER...RECON S/A COMPRESSED TO SYMBOLIC		706241	B3
BACKGROUND DEMONSTRATION PROGRAMS...BCH		704347	B3	CONVERTER...RECON COMPRESSED TO SYMBOLIC		706239	B3
BASIC CONTROL MONITOR (BCM)...		704457	B1	COORDINATE GEOMETRY LANG.-CIVIL ENG...COGO		890328	B3
BASIC FORTRAN IV COMPILER...RBM		705375	B1	CPU DIAGNOSTIC - AUTO...		705530	B3
BASIC FORTRAN IV LIBRARY (COVER)...RBM		704525	B1	CPU DIAGNOSTIC SYSTEM (AUTO)...		704011	B3
BASIC FORTRAN MATH LIBRARY/RUN-TIME...		704454	B1	CPU INTERRUPT DIAGNOSTIC...		704002	B3
BATCH MONITOR (RBM)...XEROX REAL-TIME		705368	B1	CPU OPTIONAL INSTRUCTION DIAGNOSTIC...		720012	B1
BATCH MONITOR (RBM)...XEROX REAL-TIME		705369	B1	CSS/3)...CONTINUOUS SYSTEM SIMULATOR (		890719	B3
BATCH TERMINAL TEST...REMOTE		705298	B3	CO1/DOO SAVE PROGRAM...SIGMA 2/3		706244	B1
BCH BACKGROUND DEMONSTRATION PROGRAMS...		704347	B3	CAD/DEF...RBM-16		706501	B3
BCH COVER...NON-STANDARD		705847	B3	DAY SUBROUTINE...TIME-OF-		890584	B3
BCH SYMBOL ASSEMBLER...		704990	B1	DCP)...DIAGNOSTIC CONTROL PROGRAM (		704025	B3
BCH...SYMBOLIC COMPRESSOR FOR RBM/		706246	B3	DEBUG ROOT...RBM UTILITIES SUBSYSTEMS AND		705373	B3
BCM)...BASIC CONTROL MONITOR (		704457	B1	DEBUG WITH TRACE...		704163	B3
BCM)...SIGMA 3 TO 1108 REMOTE JOB ENTRY (		890705	B3	DEBUG...STAND-ALONE		704455	B1
BIT MACHINE)...XEROX DIAG.PROG. LOADER (16		720000	B1	DEBUG/TRACE (SIGMA 2)...		890523	B3
BIT)...XEROX DIAG. PROG. MAG TAPE LIB. (16		720009	B1	DECIPHER SUBROUTINE...		890897	B3
BIT)...XEROX KEYBOARD PRINTER (ASR/KSR)(16		705652	B1	DEMAND PAGER...		890926	B3
BIT)...XEROX SOFTWARE HARDWARE TEST (16-		720010	B1	DEVICE CHECKOUT PROGRAM...GEOSPACE SPECIAL		704285	B1
BLOCKED RANDOM FILE ROUTINES...		890741	B3	DEVICE HANDLER...MESSAGE ORIENTED COMM.		706255	B1
BOOLEAN SUBROUTINES...		890902	B3	DEVICE SUBCONTROLLER DIAO...7902 EXTENDED		706172	B3
BOOT STRAP AND ABSOLUTE LOADER GENERATOR..		705264	B1	DIAG. PROG. LIB. CONTROL...XEROX COIN-X530		720023	B2
BOOTSTRAP SIMULATOR...DISK PACK		890767	B3	DIAG. PROG. MAG TAPE LIB. (16-BIT)...XEROX		720009	B1
BOUNDARY ROUTINE FOR ELLA 530...		706484	B1	DIAG. PROG...MODIFIED 7910/14/22 ANALOG		705382	B1
BRANCH DATA ENTRY SYSTEMS EXERCISER...		720021	B1	DIAG. PROGRAM LIBRARY...XEROX COIN-X530		720022	B2
BSC PROCEDURAL HANDLER...RBM		706149	B1	DIAG...7902 EXTENDED DEVICE SUBCONTROLLER		708172	B3
BUFFERIN/BUFFEROUT...		890879	B3	DIAG.PROG. LOADER (16-BIT MACHINE)...XEROX		720000	B1
BUFFEROUT...BUFFERIN/		890879	B3	DIAG.PROG.MAG.TAPE LIBRARY CONTROL PROG...		705693	B1
BUS. APPLICATIONS...COMMERCIAL SUBSET FOR		890579	B3	DIAGNOSTIC - AUTO...CPU		705530	B3
C.O.C. HANDLER (RCOC)...		705719	B1	DIAGNOSTIC - SYSTEM EXERCISER...		705716	B3
CALLABLE SORT...LSDMF - FORTRAN		890927	B3	DIAGNOSTIC BINARY GENERATOR...SIGMA 2		704030	B3
CARD EQUIPMENT TEST...COMPREHENSIVE		706170	B1	DIAGNOSTIC CONTROL PROGRAM (DCP)...		704025	B3
CARD PUNCH EXERCISER...CARD READER/		706478	B1	DIAGNOSTIC FOR 8150)...MEDIC 8150 (MEMORY		705894	B3
CARD READER/CARD PUNCH EXERCISER...		706478	B1	DIAGNOSTIC LOADER-SYMBOL-EXTENDED SYMBOL...		705299	B3
CC-32/33 DIAGNOSTIC PROGRAM...		706202	B1	DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY..		705694	B1
CCS-20 DATA LINK...EXERCISER FOR		705365	B3	DIAGNOSTIC PROGRAM MONITOR (DPH)...		705681	B1
CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS...		705357	B3	DIAGNOSTIC PROGRAM MONITOR...		720004	B1
CC33 TEST PROGRAM...COIN		720024	B2	DIAGNOSTIC PROGRAM SYSTEM MONITOR...		720016	B1
CDC-6400...SIGMAS-XDS SIGMA 2/3 ASSEMBLER		890670	B3	DIAGNOSTIC PROGRAM WITH HANDLERS...CCS-20		705357	B3
CES-34 DIAGNOSTIC PROGRAM...		706114	B3	DIAGNOSTIC PROGRAM...CC-32/33		706202	B1
CF16 INTERCOMMUNICATION DEMO...SIGMA 3 -		706147	B3	DIAGNOSTIC PROGRAM...CES-34		706114	B3
CF16 INTERCOMMUNICATION DEMO...SIGMA 3 -		706238	B3	DIAGNOSTIC PROGRAM...INTERRUPT		720008	B1
CHANNEL INTERFACE UNIT TEST DIAGNOSTIC...		705297	B1	DIAGNOSTIC PROGRAM...NS LINE PRINTER		720020	B1
CHANNEL MAGNETIC TAPE TEST...7		705977	B1	DIAGNOSTIC PROGRAM...XEROX DISPLAY STATION		708110	B1
CHANNEL MAGNETIC TAPE TEST...9		705866	B1	DIAGNOSTIC PROGRAM...7910/14/15 SIU		704235	B1
CHANNEL POTTER MAGNETIC TAPE TEST...9-		706417	B1	DIAGNOSTIC PROGRAM...7922 SIU		704213	B1
CHARACTER ORIENTED COMMUNICATION TEST...		704014	B1	DIAGNOSTIC PROGRAM...7923/28/29 SIU		705388	B1
CHECKOUT PROGRAM...GEOSPACE SPECIAL DEVICE		704285	B1	DIAGNOSTIC SYSTEM (AUTO)...CPU		704011	B3
CHRONOLOGICAL LIST. MODULE FOR ELLA 530...		706483	B1	DIAGNOSTIC...ADS-10 SIU		705885	B1
CIVIL ENG...COGO COORDINATE GEOMETRY LANG.		890328	B3	DIAGNOSTIC...CHANNEL INTERFACE UNIT TEST		705297	B1
CLOCK TEST...REAL TIME		704139	B3	DIAGNOSTIC...CPU INTERRUPT		704002	B3
CLOCK I FOREGROUND DEMO...REAL-TIME		704242	B3	DIAGNOSTIC...CPU OPTIONAL INSTRUCTION		720012	B1
CLOSED LOOP DIAGNOSTIC...7907		706468	B3	DIAGNOSTIC...DATA SET CONTROLLER		704055	B1
CLOSED LOOP DIAGNOSTIC...7908		706470	B3	DIAGNOSTIC...HARDWARE MEMORY		720001	B1
CNTRL...COMMAND SYS I,SECT 2-SWITCH LIGHT		704056	B3	DIAGNOSTIC...HARDWARE HARDWARE		720011	B1
COBOL COMPILER...XEROX 530 ANS		706500	B1	DIAGNOSTIC...INSTRUCTION		720005	B1
COGO COORDINATE GEOMETRY LANG.-CIVIL ENG..		890328	B3	DIAGNOSTIC...IOP		720007	B1
COIN CC33 TEST PROGRAM...		720024	B2	DIAGNOSTIC...KEYBOARD DISPLAY		704012	B3
COIN-X530 DIAG. PROG. LIB. CONTROL...XEROX		720023	B2	DIAGNOSTIC...MANUAL CONTROL		720013	B1
COIN-X530 DIAG. PPROGRAM LIBRARY...XEROX		720022	B2	DIAGNOSTIC...MEMORY		720002	B1
COMM. DEVICE HANDLER...MESSAGE ORIENTED		706255	B1	DIAGNOSTIC...PERIPHERAL SWITCHING EQUIP.		705266	B1
COMMAND SYS I,SECT 1- UTILITY AND IO...		704038	B3	DIAGNOSTIC...POTTER 3000/3300 PRINTER		706462	B3
COMMAND SYS I,SECT 2-SWITCH LIGHT CNTRL...		704056	B3	DIAGNOSTIC...TMS099/XPS97		706451	B3
COMMAND SYS I,SECT 5-TONES DIGITAL/FSK...		704344	B3	DIAGNOSTIC...7580 GRAPHIC DISPLAY		706282	B1
COMMAND SYS I,SECT 6-PROGRAM GENERATOR...		704345	B3	DIAGNOSTIC...7907 CLOSED LOOP		706468	B3
COMMAND SYS I,SECT 7-DATA BASE OVERLAY...		704346	B3	DIAGNOSTIC...7908 CLOSED LOOP		706470	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
DIAGNOSTIC...	7915/ADS-10 SIU	705892	B1	GENERATOR...	BOOT STRAP AND ABSOLUTE LOADER	705264	B1
DIAGNOSTIC...	7930/7931/7935 SIU DIGITAL	704210	B1	GENERATOR...	COMMAND SYS 1, SECT 6-PROGRAM	704345	B3
DIAGNOSTIC...	8050 EXTERNAL MEMORY ADAPTER	704449	B1	GENERATOR...	SIGMA 2 DIAGNOSTIC BINARY	704030	B3
DIAGNOSTIC-FAULT LOCATOR...	MEMORY	705529	B3	GEOMETRY LANG.-CIVIL ENG...	COGO COORDINATE	890328	B3
DIAGNOSTICS FOR SIGMA 3...	XPS-97	706109	B3	GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM...	GO (LAG) PROCESSOR...DPS LOAD AND	704295	B1
DIAL EQUIPMENT PROGRAM...	AUTO	704156	B1	GRAPH PLOTTER HANDLER (PLOT)...	GRAPH PLOTTER TEST...	720015	B1
DIGITAL ANALOG SIMULATOR...	SIGDAS- SIGMA	890710	B3	GRAPHICAL DISPLAY DIAGNOSTIC...	7580	706262	B1
DIGITAL DIAGNOSTIC...	7930/7931/7935 SIU	704210	B1	GRAPHICAL DISPLAY MODULE FOR ELLA 530...	HANDLER (EXT. PREC. FORTRAN)...	706485	B1
DIGITAL TAPE...	COMMAND SYS 11, SECT 3-TONE/	704034	B3	HANDLER (EXT. PREC. FORTRAN)...	SIU 7915	706171	B3
DIGITAL TEST...	COMMAND SYS 11, SECT 5-TONES	704036	B3	HANDLER (EXT. PREC. FORTRAN)...	SIU 7930/31	705853	B3
DIGITAL/FSK...	COMMAND SYS 1, SECT 5-TONES	704344	B3	HANDLER (EXT. PREC. FORTRAN)...	7910 SIU	708115	B3
DISC FILE TEST PROGRAM...	MASS STORAGE	704320	B3	HANDLER (FORTRAN)...	7923 SIU	705898	B3
DISC STORAGE TEST...	REMOVABLE	705533	B1	HANDLER (FORTRAN)...	7969 SIU	706123	B3
DISK PACK BOOTSTRAP SIMULATOR...		890767	B3	HANDLER (PLOT)...	GRAPH PLOTTER	704005	B3
DISK SORT...	XEROX 530	706257	B1	HANDLER (RCOC)...	C.O.C.	705719	B1
DISPLAY DIAGNOSTIC...	KEYBOARD	704012	B3	HANDLER (STAND. PREC. FORTRAN)...	SIU 7930/31	705856	B3
DISPLAY DIAGNOSTIC...	7580 GRAPHIC	706262	B1	HANDLER (STD. PREC. FORTRAN)...	7910 SIU	706116	B3
DISPLAY MODULE FOR ELLA 530...	GRAPHICAL	706485	B1	HANDLER...	MESSAGE ORIENTED COMM. DEVICE	706255	B1
DISPLAY STATION DIAGNOSTIC PROGRAM...	XEROX	706110	B1	HANDLER...	MOC CONTROLLER 7801	705895	B3
DISPLAY STATION PROCEDURAL HANDLER...	XEROX	706254	B1	HANDLER...	RBM BSC PROCEDURAL	708149	B1
DIVIDE INTERRUPT SUBROUTINE...	MULTIPLY/	704511	B1	HANDLER...	RBM EOI MODIFICATIONS-ASCII TAPE	890825	B3
DPM)...	DIAGNOSTIC PROGRAM MONITOR (	705681	B1	HANDLER...	STAND-ALONE RAD	704073	B3
DPS LOAD AND GO (LAG) PROCESSOR...		720015	B1	HANDLER...	XEROX DISPLAY STATION PROCEDURAL	706254	B1
DUMP ROUTINE (ELABORATED)...	FCT	890720	B3	HANDLERS...	CCS-20 DIAGNOSTIC PROGRAM WITH	705357	B3
DUPLICATOR/VERIFIER...	PAPER TAPE	706449	B1	HARDCORE DIAGNOSTIC...	HARDWARE	720011	B1
DOO SAVE PROGRAM...	SIGMA 2/3 COI/	706244	B1	HARDCORE MEMORY DIAGNOSTIC...		720001	B1
EDITOR FOR SIGMA 2...	TEXT	890389	B3	HARDWARE TEST (16-BIT)...	XEROX SOFTWARE	720010	B1
EDITOR...	RBM RAD	705371	B1	HARDWARE HARDWARE DIAGNOSTIC...		720011	B1
ELABORATED)...	FCT DUMP ROUTINE (	890720	B3	HISTORY PROGRAM...	AUTOMATED MEDICAL	890744	B3
ELECTRONICS DATA ACQUISITION...	A.C.	705729	B3	I/O TEST UTILITY PROGRAM		704000	B3
ELLA 530...	BOUNDARY ROUTINE FOR	706484	B1	IDEAL FORTRAN...		890740	B3
ELLA 530...	CHRONOLOGICAL LIST. MODULE FOR	706483	B1	INDUMP...		706448	B1
ELLA 530...	CONTROL PROGRAM FOR	706482	B1	INPUT...	COMMAND SYS 11, SECT 2-FSK TAPE	705868	B3
ELLA 530...	GRAPHICAL DISPLAY MODULE FOR	706485	B1	INSTRUCTION DIAGNOSTIC...		720005	B1
ELLA 530...	SORTED LISTING MODULE FOR	706487	B1	INSTRUCTION DIAGNOSTIC...	CPU OPTIONAL	720012	B1
ELLA 530...	SUMMARY MODULE FOR	706486	B1	INTEGRAL IOP AND WD INTERFACE TEST...		704006	B3
ENG...	COGO COORDINATE GEOMETRY LANG.-CIVIL	890328	B3	INTERCOMMUNICATION DEMO...	SIGMA 3 - CF16	708147	B3
ENTRY (BCM)...	SIGMA 3 TO 1108 REMOTE JOB	890705	B3	INTERCOMMUNICATION DEMO...	SIGMA 3 - CF16	706238	B3
ENTRY (RBM)...	SIGMA 3 TO 1108 REMOTE JOB	890704	B3	INTERFACE TEST...	INTEGRAL IOP AND WD	704006	B3
ENTRY SYSTEMS EXERCISER...	BRANCH DATA	720021	B1	INTERFACE UNIT TEST DIAGNOSTIC...	CHANNEL	705297	B1
EQUIP. DIAGNOSTIC...	PERIPHERAL SWITCHING	705266	B1	INTERGRAL IOP TEST...		705690	B3
EQUIPMENT PROGRAM...	AUTO DIAL	704156	B1	INTERRUPT DIAGNOSTIC PROGRAM...		720006	B1
EQUIPMENT TEST...	COMPREHENSIVE CARD	706170	B1	INTERRUPT DIAGNOSTIC...	CPU	704002	B3
ERROR LOG LIST/ANALYSIS PROGRAM...		706481	B1	INTERRUPT SUBROUTINE...	MULTIPLY/DIVIDE	704511	B1
EXERCISER (SYSX)...	SYSTEMS	720014	B1	IO CONTROL/UTILITY...	COMMAND SYS 11, SECT 8	704037	B3
EXERCISER CONTROL PROGRAM...		706477	B1	IO...COMMAND SYS 1, SECT 1- UTILITY AND		704038	B3
EXERCISER FOR CCS-20 DATA LINK...		705365	B3	IOP AND WD INTERFACE TEST...	INTEGRAL	704006	B3
EXERCISER SYSTEM...	ON-LINE	706488	B1	IOP DIAGNOSTIC...		720007	B1
EXERCISER...	BRANCH DATA ENTRY SYSTEMS	720021	B1	IOP TEST PROGRAM...	EXTERNAL	705879	B3
EXERCISER...	CARD READER/CARD PUNCH	706478	B1	IOP TEST...	INTERGRAL	705690	B3
EXERCISER...	DIAGNOSTIC - SYSTEM	705716	B3	JOB ENTRY (BCM)...	SIGMA 3 TO 1108 REMOTE	890705	B3
EXERCISER...	LINE PRINTER	706479	B1	JOB ENTRY (RBM)...	SIGMA 3 TO 1108 REMOTE	890704	B3
EXERCISER...	MAGNETIC TAPE	706480	B1	KEYBOARD DISPLAY DIAGNOSTIC...		704012	B3
EXERCISER...	MULTIPLE-PORT MEMORY RANDOM	705672	B3	KEYBOARD PRINTER (ASR/KSR)(16-BIT)...	XEROX	705852	B1
EXT. PREC. FORTRAN)...	7929 SIU HANDLER (	706171	B3	KEYBOARD PRINTER TEST...		704015	B3
EXT. PREC. FORTRAN)...	SIU 7915 HANDLER (	705853	B3	KSR)(16-BIT)...	XEROX KEYBOARD PRINTER (ASR	705852	B1
EXT. PREC. FORTRAN)...	SIU 7930/31 HANDLER (	705855	B3	LAG) PROCESSOR...	DPS LOAD AND GO (	720015	B1
EXT. PREC. FORTRAN)...	7910 SIU HANDLER (	706115	B3	LANG.-CIVIL ENG...	COGO COORDINATE GEOMETRY	890328	B3
EXTENDED ARITHMETIC OPTION...		705386	B3	LEAST-SQUARES W/ ORTHOGONAL POLYNOMIALS...		890814	B3
EXTENDED DEVICE SUBCONTROLLER DIAG...	7902	706172	B3	LEVEL 3)...	APT3 (	890748	B3
EXTENDED SYMBOL...	RBM	705372	B1	L.B. (16-BIT)...	XEROX DIAG. PROG. MAG TAPE	720009	B1
EXTENSIONS...	ROUTINES - REAL-TIME	890697	B3	L.B. CONTROL...	XEROX COIN-X530 DIAG. PROG.	720023	B2
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EXTERNAL MEMORY ADAPTER DIAGNOSTIC...	8050	704449	B1	LINK...	EXERCISER FOR CCS-20 DATA	705385	B3
E01 MODIFICATIONS-ASCII TAPE HANDLER...	RBM	890825	B3	LIST. MODULE FOR ELLA 530...	CHRONOLOGICAL	706483	B1
FAIL-SAFE TEST...	POWER	704140	B3	LIST/ANALYSIS PROGRAM...	ERROR LOG	706481	B1
FAULT LOCATOR...	MEMORY DIAGNOSTIC-	705529	B3	LISTING MODULE FOR ELLA 530...	SORTED	706487	B1
FCT DUMP ROUTINE (ELABORATED)...		890720	B3	LOAD AND GO (LAG) PROCESSOR...	DPS	720015	B1
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FOREGROUND DEMO...	REAL-TIME CLOCK 1	704342	B3	LOADER...	STAND-ALONE RELOCATABLE	704453	B1
FORTRAN CALLABLE SORT...	LSDMF -	890927	B3	LOADER-SYMBOL+EXTENDED SYMBOL...	DIAGNOSTIC	705299	B3
FORTRAN IV COMPILER...	RBM BASIC	705375	B1	LOADING...	COMMAND SYS 1, SECT 3-DATA BASE	705687	B3
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FORTRAN IV...	ANS	706463	B1	LOOP DIAGNOSTIC...	7907 CLOSED	706488	B3
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FORTRAN...	IDEAL	890740	B3	MACHINE)...	XEROX DIAO. PROG. LOADER (16-BIT	720000	B1
FORTRAN...	SIU 7915 HANDLER (EXT. PREC.	705853	B3	MAG TAPE LIB. (16-BIT)...	XEROX DIAO. PROG.	720009	B1
FORTRAN...	SIU 7930/31 HANDLER (EXT. PREC.	705855	B3	MAGNETIC TAPE EXERCISER...		706480	B1
FORTRAN...	7910 SIU HANDLER (STD. PREC.	706116	B3	MAGNETIC TAPE LIBRARY...	DIAGNOSTIC PROGRAM	705694	B1
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FORTRAN...	7929 SIU HANDLER (EXT. PREC.	706171	B3	MAGNETIC TAPE TEST...	9 CHANNEL	705886	B1
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FSK TAPE INPUT...	COMMAND SYS 11, SECT 2-	705666	B3	MANUAL CONTROL DIAGNOSTIC...		720013	B1
FSK TEST...	COMMAND SYS 11, SECT 4-	704035	B3	MANUFACTURING TEST PROGRAM...		705720	B3
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GENERATOR...	ANALOG REDUCTION REPORT	705378	B3				

PROGRAM AVAILABILITY LIST

SIGMA 2/3-530
KWIC INDEX

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	MATH LIBRARY/RUN-TIME...BASIC FORTRAN	704454	B1		RBM RAD EDITOR...	705371	B1
	MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150)...	705894	B3		RBM REPLACE...	706275	B1
	MEDIC...MEMORY PROGRAM -	704022	B3		RBM TRACE PROGRAM...	890726	B3
	MEDICAL HISTORY PROGRAM...AUTOMATED	890744	B3		RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT...	705373	B1
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	MEMORY DIAGNOSTIC FOR 8150)...MEDIC 8150 (705894	B3		RBM)...XEROX REAL-TIME BATCH MONITOR (705368	B1
	MEMORY DIAGNOSTIC...	720002	B1		RBM)...XEROX REAL-TIME BATCH MONITOR (705369	B1
	MEMORY DIAGNOSTIC...HARDCORE	720001	B1		RBM-16 DATADEF...	706501	B3
	MEMORY DIAGNOSTIC-FAULT LOCATOR...	705529	B3		RBM/BCM...SYMBOLIC COMPRESSOR FOR	706246	B3
	MEMORY PROGRAM - MEDIC...	704022	B3		RBM/3 GASP II SIMULATION PROGRAM...	890671	B3
	MEMORY PROTECT PROGRAM...	705528	B3		RCOC)...C.O.C. HANDLER (705719	B1
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	PREC. FORTRAN)...SIU 7930/31 HANDLER (EXT.	705855	B3		SIU HANDLER (FORTRAN)...7923	705898	B3
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	RBM BASIC FORTRAN IV COMPILER...	705375	B1		STATISTICAL SYSTEM - STATSYS...	890911	B3
	RBM BASIC FORTRAN IV LIBRARY (COVER)...	704525	B1		STATSYS...STATISTICAL SYSTEM -	890911	B3
	RBM BSC PROCEDURAL HANDLER...	706149	B1		STD PREC FORTRAN)...7910 SIU HANDLER (706118	B3
	RBM CONCORDANCE...	705374	B1		STORAGE DISC FILE TEST PROGRAM...MASS	704320	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
STORAGE TEST...REMOVABLE DISC		705533	B1	VERIFIER...PAPER TAPE DUPLICATOR/		708449	B3
STRAP AND ABSOLUTE LOADER GENERATOR...BOOT		705264	B1	WATCHDOG TIMER TEST...		705356	B3
SUBCONTROLLER DIAG...7902 EXTENDED DEVICE		706172	B3	WD INTERFACE TEST...INTEGRAL IOP AND		704006	B3
SUBSET FOR BUS. APPLICATIONS...COMMERCIAL		890579	B3	XEROX COIN-X530 DIAG. PROG. LIB. CONTROL..		720023	B2
SUBSYSTEMS AND DEBUG ROOT...RBM UTILITIES		705373	B1	XEROX COIN-X530 DIAG. PROGRAM LIBRARY...		720022	B2
SUMMARY MODULE FOR ELLA 530...		706486	B1	XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT)..		720009	B1
SUPPORT TAPE (SST)...UNLABELED SOFTWARE		880816	B1	XEROX DIAG.PROG. LOADER (16-BIT MACHINE)..		720000	B1
SWITCH LIGHT CNTRL...COMMAND SYS I ,SECT 2		704056	B3	XEROX DISPLAY STATION DIAGNOSTIC PROGRAM..		708110	B1
SWITCHING EQUIP. DIAGNOSTIC...PERIPHERAL		705266	B1	XEROX DISPLAY STATION PROCEDURAL HANDLER..		708254	B1
SYMBIONT PLOTTING SYSTEM...		705780	B1	XEROX KEYBOARD PRINTER (ASR/KSR)(16-BIT)..		705652	B1
SYMBOL ASSEMBLER...BCM		704990	B1	XEROX REAL-TIME BATCH MONITOR (RBM)...		705368	B1
SYMBOL ASSEMBLER...STAND-ALONE		704450	B1	XEROX REAL-TIME BATCH MONITOR (RBM)...		705369	B1
SYMBOL...DIAGNOSTIC LOADER-SYMBOL+EXTENDED		705299	B3	XEROX REPORT PROGRAM GENERATOR (RPG II)...		708401	B1
SYMBOL...RBM EXTENDED		705372	B1	XEROX SATELLITE PROCESSOR...		708491	B1
SYMBOL+EXTENDED SYMBOL...DIAGNOSTIC LOADER		705299	B3	XEROX SOFTWARE HARDWARE TEST (16-BIT)...		720010	B1
SYMBOLIC COMPRESSOR FOR RBM/BCM...		706246	B3	XEROX 530 ANS COBOL COMPILER...		708500	B1
SYMBOLIC COMPRESSOR FOR STAND-ALONE...		706245	B3	XEROX 530 DISK SORT...		708257	B1
SYMBOLIC CONVER...RECON S/A COMPRESSED TO		706241	B3	XGP - VAR...		890981	B3
SYMBOLIC CONVERTER...RECON COMPRESSED TO		706239	B3	XGP-OUT...		890903	B3
SYS I ,SECT 1- UTILITY AND IO...COMMAND		704038	B3	XPS-97 DIAGNOSTICS FOR SIGMA 3...		706109	B3
SYS I ,SECT 2-SWITCH LIGHT CNTRL...COMMAND		704056	B3	XPS97 DIAGNOSTIC...TMS09B/		708451	B3
SYS I ,SECT 5-TONES DIGITAL/FSK...COMMAND		704344	B3	X530 DIAG. PROG. LIB. CONTROL...XEROX COIN		720023	B2
SYS I ,SECT 6-PROGRAM GENERATOR...COMMAND		704345	B3	X530 DIAG. PROGRAM LIBRARY...XEROX COIN-		720022	B2
SYS I ,SECT 7-DATA BASE OVERLAY...COMMAND		704346	B3	1108 REMOTE JOB ENTRY (BCM)...SIGMA 3 TO		890705	B3
SYS I ,SECT 3-DATA BASE LOADING...COMMAND		705667	B3	1108 REMOTE JOB ENTRY (RBM)...SIGMA 3 TO		890704	B3
SYS I,SECT 4-TELEMETRY AND TONES...COMMAND		704209	B3	2230/2440 LINE PRINTER...		708476	B3
SYS II,SECT 1-MESSAGE PROCESSOR...COMMAND		704028	B3	2440 LINE PRINTER...2230/		708476	B3
SYS II,SECT 2-FSK TAPE INPUT...COMMAND		705666	B3	3000/3300 PRINTER DIAGNOSTIC...POTTER		708462	B3
SYS II,SECT 3-TONE/DIGITAL TAPE...COMMAND		704034	B3	3300 PRINTER DIAGNOSTIC...POTTER 3000/		708462	B3
SYS II,SECT 4-FSK TEST...COMMAND		704035	B3	530 ANS COBOL COMPILER...XEROX		708500	B1
SYS II,SECT 5-TONES DIGITAL TEST...COMMAND		704036	B3	530 DISK SORT...XEROX		708257	B1
SYS II,SECT 6-IO CONTROL/UTILITY...COMMAND		704037	B3	530...BOUNDARY ROUTINE FOR ELLA		708484	B1
SYSLOAD PACKAGE...STAND-ALONE		704956	B1	530...CHRONOLOGICAL LIST. MODULE FOR ELLA		708483	B1
SYSTEMS EXERCISER (SYSX)...		720014	B1	530...CONTROL PROGRAM FOR ELLA		708482	B1
SYSTEMS EXERCISER...BRANCH DATA ENTRY		720021	B1	530...GRAPHICAL DISPLAY MODULE FOR ELLA		708485	B1
SYSTEMS EXERCISER (SYSX)...SYSTEMS EXERCISER (		720014	B1	530...SORTED LISTING MODULE FOR ELLA		708487	B1
TAPE TEST PROGRAM		704348	B3	530...SUMMARY MODULE FOR ELLA		708486	B1
TELEMETRY AND TONES...COMMAND SYS I,SECT 4		704209	B3	6400...SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-		890670	B3
TELETYPE TERMINAL SIMULATOR PROGRAMS...		706252	B3	7580 GRAPHIC DISPLAY DIAGNOSTIC...		708262	B1
TERMINAL SIMULATOR PROGRAMS...TELETYPE		706252	B3	7601 HANDLER...MOC CONTROLLER		705895	B3
TERMINAL TEST...REMOTE BATCH		705298	B3	7902 EXTENDED DEVICE SUBCONTROLLER DIAO...		706172	B3
TEXT EDITOR FOR SIGMA 2...		890389	B3	7907 CLOSED LOOP DIAGNOSTIC...		708468	B3
TIME BATCH MONITOR (RBM)...XEROX REAL-		705368	B1	7908 CLOSED LOOP DIAGNOSTIC...		708470	B3
TIME BATCH MONITOR (RBM)...XEROX REAL-		705369	B1	7910 SIU HANDLER (EXT.PREC.FORTRAN)...		708115	B3
TIME CLOCK TEST...REAL		704139	B3	7910 SIU HANDLER (STD PREC FORTRAN)...		708116	B3
TIME CLOCK I FOREGROUND DEMO...REAL-		704342	B3	7910/14/15 SIU DIAGNOSTIC PROGRAM...		704235	B1
TIME EXTENSIONS...ROUTINES - REAL-		890697	B3	7910/14/22 ANALOG DIAG. PROG...MODIFIED		705382	B1
TIME...BASIC FORTRAN MATH LIBRARY/RUN-		704454	B1	7915 HANDLER (EXT. PREC. FORTRAN)...SIU		705853	B3
TIME-OF-DAY SUBROUTINE...		890584	B3	7915/AOS-10 SIU DIAGNOSTIC...		705892	B1
TIME-SHARING PROCESSOR...		890821	B3	7922 SIU DIAGNOSTIC PROGRAM...		704213	B1
TIMER TEST...WATCHDOG		705356	B3	7923 SIU HANDLER (FORTRAN)...		705899	B3
TMS09B/XPS97 DIAGNOSTIC...		706451	B3	7923/28/29 SIU DIAGNOSTIC PROGRAM...		705388	B1
TOPE/DIGITAL TAPE...COMMAND SYS II,SECT 3-		704034	B3	7929 SIU HANDLER (EXT PREC FORTRAN)...		708171	B3
TONES DIGITAL TEST...COMMAND SYS II,SECT 5		704036	B3	7930/31 HANDLER (EXT. PREC. FORTRAN)...SIU		705895	B3
TONES DIGITAL/FSK...COMMAND SYS I ,SECT 5-		704344	B3	7930/31 HANDLER (STAND.PREC.FORTRAN)...SIU		705856	B3
TONES...COMMAND SYS I,SECT 4-TELEMETRY AND		704209	B3	7930/7931/7935 SIU DIGITAL DIAGNOSTIC...		704210	B1
TRACE (SIGMA 2)...DEBUG/		890523	B3	7931/7935 SIU DIGITAL DIAGNOSTIC...7930/		704210	B1
TRACE PROGRAM...RBM		890726	B3	7935 SIU DIGITAL DIAGNOSTIC...7930/7931/		704210	B1
TRACE...DEBUG WITH		704183	B3	7969 SIU HANDLER (FORTRAN)...		708123	B3
UNIT TEST DIAGNOSTIC...CHANNEL INTERFACE		705297	B1	8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC...		704449	B1
UNIVERSAL UTILITY PROGRAM...		704989	B1	8150 (MEMORY DIAGNOSTIC FOR 8150)...MEDIC		705894	B3
UNLABELED SOFTWARE SUPPORT TAPE (SST)...		880816	B1	8150 MINI TEST...		705893	B3
UTILITIES SUBSYSTEMS AND DEBUG ROOT...RBM		705373	B1	8150)...MEDIC 8150 (MEMORY DIAGNOSTIC FOR		705894	B3

- 704285 SIGMA 2 GEOSPACE SPECIAL DEVICE CHECKOUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM ALLOWS VISUAL CHECKING OF THE OPERATION OF THE DISPLAY UNITS AND PROGRAM CHECKING OF THE 1ST AND 2ND LEVEL PRIORITY INTERRUPT SIGNAL CONDITIONER, FOR THE GEOSPACE TELESCOPE CONTROL SYSTEM.
COMMENTS:
THE DISPLAY UNITS ARE DRIVEN BY A 7930/31 SUIU. EACH DIGIT IS COUNTED SO THAT PROPER OPERATION CAN BE CHECKED. THE INTERRUPT SIGNALS ARE CHECKED TO DETERMINE IF THEY WERE EARLY, LATE OR OK.
- 704450 SIGMA 2 STAND-ALONE SYMBOL ASSEMBLER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE STAND-ALONE VERSION OF THE SIGMA 2 SYMBOL ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE PROGRAMS, CONVERTS THEM TO MACHINE-LANGUAGE (OBJECT) PROGRAMS, AND OUTPUTS THE OBJECT PROGRAM AND AN ASSEMBLY LISTING. THE OBJECT PROGRAM MAY BE LOADED BY ANY OF THE SIGMA 2 RELOCATABLE LOADERS.
COMMENTS:
THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2, ACCORDING TO THE PROCEDURE DESCRIBED IN 901047. THE RESULTING PROGRAM USES THE I/O DRIVERS THAT ARE IN MEMORY AT THE TIME THE ABSOLUTE COPY IS PREPARED. THE CORE RESIDENCY IS APPROXIMATELY 3915 WORDS, PLUS THE STORAGE REQUIRED FOR THE I/O DRIVERS (APPROXIMATELY 508 WORDS) THE REMAINING AVAILABLE MEMORY IS USED AS SCRATCH STORAGE. THE MINIMUM CONFIGURATION REQUIRED IS: 8K SIGMA 2, CARD OR PAPER TAPE I/O, AND TYPEWRITER.
- 704453 SIGMA 2 STAND-ALONE RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE STAND-ALONE VERSION OF THE SIGMA 2 LOADER. IT IS USED TO PREPARE AN ABSOLUTE COPY OF CATALOG NO.S 704453, 704450, AND 704455, ACCORDING TO THE PROCEDURE DESCRIBED IN 901047. THE RESULTING ABSOLUTE COPY OF THIS PROGRAM READS OBJECT MODULES (PRODUCED BY SIGMA 2 BASIC SYMBOL- CATALOG NO. 704450) FROM THE BINARY INPUT DEVICE, LINKS EXTERNAL REFERENCES AMONG TWO OR MORE PROGRAMS, ACCEPTS RELOCATABLE PATCHES, LISTS ALL EXTERNAL DEFINITIONS (AND UNSATISFIED REFERENCES), ACCEPTS BIAS AND BOUNDARY SPECIFICATIONS, AND DUMPS MEMORY (IN ABSOLUTE FORMATTED FORM) ON THE BINARY OUTPUT DEVICE (PO).
COMMENTS:
THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2 ACCORDING TO THE SYSLOAD PROCEDURE DESCRIBED IN 901047. THE RESULTING PROGRAM OCCUPIES THE UPPER 1603 DECIMAL LOCATIONS (APPROX.). THE REMAINING AVAILABLE MEMORY IS USED FOR LOADING PROGRAMS AND FOR AN EXTERNAL SYMBOL TABLE (CONSTRUCTED TOWARD THE LOW END OF AVAILABLE MEMORY). THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA 2, CARD OR PAPER TAPE I/O, AND TYPEWRITER. NOTE: AN ADDITIONAL 4K OF SIGMA 2 CORE MEMORY IS REQUIRED TO PREPARE AN ABSOLUTE COPY OF CATALOG NO. 704450. THE ABSOLUTE BINARY CARDS (OR PAPER TAPE) AND THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF THIS CATALOG NUMBER ARE ALSO INCLUDED AS PART OF CATALOG NO. 704956.
- 704454 SIGMA 2/3 BASIC FORTRAN MATH LIBRARY/RUN-TIME
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE COMPLETE BASIC FORTRAN LIBRARY. THE LIBRARY IS USED WITH THE BASIC FORTRAN COMPILER (704992) UNDER BCM.
- 704455 SIGMA 2 STAND-ALONE DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE STAND-ALONE VERSION OF THE BASIC SIGMA 2 DEBUG SUBROUTINE. IT ACCEPTS CONTROL COMMANDS AND PERFORMS THE FOLLOWING: LIST CONTROL COMMANDS, MODIFY CORE MEMORY, DUMP CORE MEMORY, MODIFY REGISTERS, DUMP REGISTERS, SELECTIVELY EXECUTE PROGRAMS, PERFORM A MASKED MEMORY SEARCH, AND DUMP MEMORY (IN ABSOLUTE FORMATTED FORM) ON THE BINARY OUTPUT DEVICE.
COMMENTS:
THE ABSOLUTE COPY OF THIS PROGRAM IS PREPARED ON THE USER'S SIGMA 2 ACCORDING TO THE SYSLOAD PROCEDURE DESCRIBED IN 901047. THE RESULTING PROGRAM USES THE I/O DRIVERS AND MEMORY DUMP ROUTINES THAT ARE IN MEMORY AT THE TIME THE ABSOLUTE COPY IS PREPARED. THE CORE RESIDENCY IS APPROXIMATELY 830 DECIMAL LOCATIONS PLUS THE STORAGE REQUIRED FOR THE I/O DRIVERS AND THE MEMORY DUMP ROUTINES (APPROXIMATELY 747 DECIMAL LOCATIONS). THE MINIMUM CONFIGURATION IS: 4K SIGMA 2, CARD OR PAPER TAPE I/O, AND TYPEWRITER. THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF THIS CATALOG NO. IS PART OF CATALOG NO. 704956.
- 704457 SIGMA 2/3-530 BASIC CONTROL MONITOR (BCM)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS IS THE COVER NUMBER FOR BCM AND PROCESSORS. IT INCLUDES: BCM (SYSGEN), SYSTEM LOADER, LINKING LOADER, SYMBOL, CONCORDANCE, UTILITIES, EXPAND, BASIC FORTRAN, AND BASIC FORTRAN LIBRARY ROUTINES.
COMMENTS:
THE COMPRESSED MAG TAPE (-46) CONTAINS THE SOURCE AND LISTINGS FOR ALL PROGRAMS INCLUDED UNDER THIS COVER NUMBER. HARD COPIES MAY BE OBTAINED BY THE USER VIA THE EXPAND PROCESSOR.
- 704511 SIGMA 2/3 MULTIPLY/DIVIDE INTERRUPT SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES MULTIPLY AND DIVIDE SIMULATION FOR CPU WITHOUT MULTIPLY/DIVIDE HARDWARE. RESULTS ARE IDENTICAL TO THOSE OBTAINED FROM HARDWARE MULTIPLY/DIVIDE.
COMMENTS:
THIS PROGRAM CONSISTS OF AN ABSOLUTE SECTION AND A RELOCATABLE SECTION. THE ABSOLUTE SECTION CONTAINS INTERRUPT TRANSFER ADDRESSES FOR LOCATIONS 260 AND 281 (DECIMAL). THE RELOCATABLE SECTION HAS AN ORIGIN AT ZERO AND OCCUPIES APPROXIMATELY 181 (DECIMAL) LOCATIONS.

- 704525 SIGMA 2/3 RBM BASIC FORTRAN IV LIBRARY (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE COMPLETE BASIC FORTRAN IV LIBRARY. THE LIBRARY IS USED WITH THE BASIC FORTRAN IV COMPILER (705375) UNDER RBM.
- 704955 SIGMA 2 STAND-ALONE SOFTWARE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS CATALOG NUMBER WAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE DECKS AND LISTINGS ON A MINIMUM NUMBER OF MAGNETIC TAPES.
COMMENTS:
THIS CATALOG NUMBER INCLUDES THE SOURCE AND LISTING FOR CATALOG NUMBERS 704450, 704453, 704455, 704511, AND 705294.
- 704956 SIGMA 2 STAND-ALONE SYSLOAD PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS CATALOG NUMBER WAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE STAND-ALONE ABSOLUTE AND RELOCATABLE PROGRAMS ON A MINIMUM NUMBER OF PAPER TAPES. THIS PACKAGE IS USED TO CREATE AN INSTALLATION DEPENDENT SYSTEM.
COMMENTS:
THIS CATALOG NUMBER INCLUDES THE ABSOLUTE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704453, THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704453, AND THE RELOCATABLE BINARY CARDS (OR PAPER TAPE) OF CATALOG NUMBER 704455.
- 704989 SIGMA 2 UNIVERSAL UTILITY PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A COLLECTION OF UTILITY PROGRAMS FOR PROCESSING AND MAINTAINING EXISTING SOFTWARE. THE PROGRAM WILL PROCESS ANY MEDIUM OF EBCDIC OR BINARY RECORDS ON A FILE BASIS. THE PROCESS FUNCTIONS INCLUDED ARE, COPY FILES, SKIP FILES, REWIND, LIST FILES, UPDATE A FILE, DUMP BINARY RECORDS AND SEQUENCE A FILE
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 2400 DECIMAL LOCATIONS, AND IS LOADED BY THE SIGMA 2 STAND ALONE RELOCATABLE LOADER MODEL NO. 704453
- 704990 SIGMA 2/3 BCM SYMBOL ASSEMBLER
AUTHOR: XEROX
ABSTRACT:
SYMBOL IS THE BASIC ASSEMBLER UNDER THE BCM. IT IS BOTH A PROGRAMMING LANGUAGE AND A LANGUAGE PROCESSOR. THE SYMBOL PROCESSOR ACCEPTS AS INPUT A PROGRAM CODED IN THE SYMBOL LANGUAGE, PROCESSES IT, AND OUTPUTS A BINARY OBJECT PROGRAM AND AN ASSEMBLY LISTING.
COMMENTS:
SYMBOL RUNS UNDER CONTROL OF THE BCM. CONFIGURATION: STANDARD BCM REQUIREMENTS, WITH APPROXIMATELY 3522 DECIMAL CELLS OF BACKGROUND SPACE. BCM IDENTIFICATION: SYMBOL.
- 705284 SIGMA 2 BOOT STRAP AND ABSOLUTE LOADER GENERATOR
AUTHOR: XEROX
ABSTRACT:
PUNCHES SHORT ABSOLUTE PROGRAM CAPABLE OF BEING LOADED WITH THE STANDARD BOOT STRAP PROCEDURE WHICH CAN LOAD INTO CORE STANDARD ABSOLUTE SYMBOL BINARY OUTPUT. CHECK SUMMING AND SEQUENCE CHECKING FEATURES ARE INCLUDED. LOAD LOCATION OF THE LOADER IS DETERMINED AT THE SOURCE LEVEL.
COMMENTS:
SIZE: APPROXIMATELY 125 HEXITAL CELLS. OUTPUT FORMAT: STANDARD ABSOLUTE, AS DESCRIBED IN THE SIGMA 2 STAND-ALONE SYSTEMS OPERATIONS MANUAL (901047B). BCM IDENTIFICATION: GEN
- 705294 SIGMA 2 STAND-ALONE CONCORDANCE
AUTHOR: XEROX
ABSTRACT:
THE SIGMA-2 STAND-ALONE CONCORDANCE PROGRAM OPERATES UNDER THE STAND-ALONE SYSTEM AS DESCRIBED IN THE STAND-ALONE OPERATIONS MANUAL NO.90-10-47 THE CONCORDANCE PROGRAM PROVIDES THE USER WITH A LISTING OF THE PROGRAM SYMBOLS, AND, BY LINE NUMBER, ALL REFERENCES TO THESE SYMBOLS FOR ANY COMPATABLE SYMBOL PROGRAM. THREE OPTIONAL CONTROL CARDS PERMIT INCLUSION OR EXCLUSION OF SPECIFIED SYMBOLS IN THE LOCAL, NONLOCAL, OR OPERATION/DIRECTIVE CODE SECTIONS OF THE PRINTOUT. THE CONCORDANCE CONTROL CARDS AND PRINTOUT FORMAT ARE DESCRIBED IN THE SIGMA-2 SYMBOL REFERENCE MANUAL NO.90-10-51
- 705368 SIGMA 2/3-530 XEROX REAL-TIME BATCH MONITOR (RBM)
AUTHOR: XEROX
ABSTRACT:
THIS CATALOG NUMBER IS USED TO ORDER THE BINARY ELEMENTS AND JOB CONTROL LANGUAGE REQUIRED TO SYSOEN AN RBM MONITOR AND LOAD THE RBM SERVICE PROCESSORS, XSYMBOL, BASIC FORTRAN IV AND THE BASIC FORTRAN IV LIBRARIES, AND THE SYMBIONT PLOTTER ROUTINES AND LIBRARIES. FOR MAGNETIC TAPE, ELEMENTS (-86,-85) THE BLOCKED/COMPRESSED LISTINGS ARE AVAILABLE FOR THE RBM MONITOR AND RBM SERVICE PROCESSORS. THE EXPAND SERVICE PROCESSOR IS USED TO DERIVE EITHER SOURCE OR LISTINGS FROM THE BLOCKED/COMPRESSED LISTINGS. SOURCE AND LISTINGS FOR THE RBM LANGUAGE PROCESSORS AND LIBRARIES MUST BE ORDERED UNDER THEIR SEPARATE

705368 CONTINUED ON FOLLOWING PAGE

- 705368 XEROX REAL-TIME BATCH MONITOR (RBM) (CONTINUED)
CATALOG NUMBERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 705369 SIGMA 2/3-530 XEROX REAL-TIME BATCH MONITOR (RBM)
AUTHOR: XEROX
ABSTRACT:
RBM PROVIDES AN OPERATING ENVIRONMENT WHICH ALLOWS BACKGROUND PROCESSING WHILE REAL-TIME TASKS (RESIDENT OR NON-RESIDENT) ARE EXECUTED IN THE FOREGROUND. THROUGH AN INTEGRAL SOFTWARE/HARDWARE DESIGN THE FULL POWER OF THE PRIORITY INTERRUPT SYSTEM IS AVAILABLE TO REAL-TIME PROGRAMS PROVIDING RAPID RESPONSE TO EXTERNAL EVENTS. BACKGROUND PROCESSING IS ALLOWED TO ABSORB ANY UNUSED FOREGROUND CPU TIME AND THROUGH USE OF THE MEMORY PROTECTION FEATURE IS PREVENTED FROM INTERFERING WITH ANY FOREGROUND OPERATION. A GENERALIZED I/O DRIVER PROVIDES EFFICIENT I/O SERVICES FOR MOST XEROX PERIPHERALS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
RELEASE ELEMENTS FOR RBM AND ITS SERVICE PROCESSORS ARE ORDERED UNDER THE RBM COVER NUMBER 705368. RELATED RBM LANGUAGE PROCESSORS ARE BASIC FORTRAN IV, ANS FORTRAN, XSYMBOL, RPG AND SORT, WHICH ARE ORDERED UNDER THE INDIVIDUAL LANGUAGE PROCESSOR CATALOG NUMBERS.
- 705371 SIGMA 2/3 RBM RAD EDITOR
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 2 RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES UNDER CONTROL OF THE RBM. IT CONTROLS RAD ALLOCATION BY GENERATING AND MAINTAINING DIRECTORIES FOR ALL PERMANENT FILES. THROUGH CONTROL COMMAND INPUT THE EDITOR CAN: 1.ADD OR DELETE ENTRIES IN PERMANENT FILE DIRECTORIES. 2.COPY DATA FROM ONE RAD FILE INTO ANOTHER 3.MAINTAIN LIBRARY AREAS ON RAD FOR USED BY THE OVERLAY LOADER 4.COPY AN OBJECT MODULE CONTAINED IN A LIBRARY 5.MAP RAD FILE ALLOCATION 6.DUMP RAD FILES 7.SAVE THE CONTENTS OF THE RAD(S) IN A SELF-RELOADABLE FORM.
COMMENTS:
THE SIGMA 2 RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES UNDER THE RBM. THE RBM OVERLAY LOADER IS REQUIRED TO LOAD THE RAD EDITOR. THE RAD EDITOR CONSISTS OF A ROOT SEGMENT PLUS 15 OVERLAY SEGMENTS.
- 705372 SIGMA 2/3-530 RBM EXTENDED SYMBOL
AUTHOR: XEROX
ABSTRACT:
EXTENDED SYMBOL, THE EXTENDED ASSEMBLY SYSTEM FOR SIGMA 2/3 COMPUTERS IS BOTH A PROGRAMMING LANGUAGE AND A LANGUAGE PROCESSOR. THE EXTENDED SYMBOL PROCESSORS ACCEPTS AS INPUT A SOURCE PROGRAM CODED IN EITHER SYMBOL (SIGMA 2/3 BASIC ASSEMBLY LANGUAGE) OR EXTENDED SYMBOL, PROCESSES IT, AND OUTPUTS A PROGRAM LOAD MODULE, DIAGNOSTIC MESSAGES, ASSEMBLY LISTINGS, SYMBOL TABLE SUMMARY, AND A SYMBOL TABLE CROSS-REFERENCE LISTING.
- 705373 SIGMA 2/3 RBM UTILITIES SUBSYSTEMS AND DEBUG ROOT
AUTHOR: XEROX
ABSTRACT:
THE RBM UTILITY SUBSYSTEM IS A BACKGROUND PROCESSOR. IT CONSISTS OF AN EXECUTIVE WHICH CONTROLS THE OPERATIONS OF THE SUBSYSTEM AND FIVE UTILITY SUBROUTINES WHICH PERFORM THE FOLLOWING FUNCTIONS: 1. COPY-PROVIDES THE ABILITY TO COPY VARIABLE LENGTH EBCDIC OR BINARY RECORDS FROM ONE DEVICE TO ANOTHER. 2. RECEDIT-PROVIDES THE ABILITY TO UPDATE SOURCE BY LINE NO. 3. OMEDIT-PROVIDES THE ABILITY TO MAINTAIN LIBRARIES OF STANDARD SIGMA 2 OBJECT MODULES. 4. DUMP- PROVIDES THE ABILITY TO DUMP THE CONTENTS OF AN INPUT DEVICE IN HEXIDECIMAL OR EBCDIC. 5. SEQEDIT-PROVIDES THE ABILITY TO UPDATE SOURCE INPUT BY SEQUENCE NUMBER.
COMMENTS:
THE RBM UTILITY SUBSYSTEM OPERATES UNDER CONTROL OF THE RBM IT REQUIRES THE RBM OVERLAY LOADER TO BE LOADED, AND CONSISTS OF A ROOT SEGMENT (THE EXECUTIVE) PLUS 5 OVERLAYS (THE UTILITY ROUTINES).
- 705374 SIGMA 2/3 RBM CONCORDANCE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM LISTS IN ALPHABETICAL ORDER SYMBOLS APPEARING IN A SYMBOL OR EXTENDED SYMBOL PROGRAM, AND THE LINE NUMBER AT WHICH THAT SYMBOL APPEARS. DIFFERENTIATION IS MADE BETWEEN SYMBOLS APPEARING IN LOCAL OR NONLOCAL REGIONS, OR DIRECTIVE, AND LABEL-OPERAND FIELDS. SEGMENTS OF THE LISTED OUTPUT REFLECT THESE DIFFERENCES. THE DIFFERENT OUTPUT SEGMENTS ARE: 1.LOCAL 2.NONLOCAL 3.PROC-OPCODE THROUGH USE OF THE CONCORDANCE CONTROL CARDS, ANY SYMBOL APPEARING IN THE LOCAL, NONLOCAL OR OPCODE SECTIONS CAN BE INCLUDED OR EXCLUDED FROM THE LISTING OUTPUT. ALL NON-STANDARD OPCODES, HOWEVER, WILL BE INCLUDED IN THE PROC SECTION.
COMMENTS:
SIZE:2191 (DECIMAL). DESIGNED FOR 32K OR LESS RBM CONFIGURATION.
- 705375 SIGMA 2/3 RBM BASIC FORTRAN IV COMPILER
AUTHOR: XEROX
ABSTRACT:
PROVIDES SIGMA 2 OBJECT LANGUAGE FROM BASIC FORTRAN IV SOURCE STATEMENTS. GENERATES RELOCATABLE, RE-ENTRANT MODULES.

- 705546 SIGMA 2/3 NUMERICAL SUBROUTINE PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE IS DESIGNED TO RUN UNDER SIGMA 2 RBM. THESE ROUTINES ARE DESIGNED TO BE USED BY THE SCIENTIFIC USER FOR PROGRAMS WRITTEN IN EITHER XDS BASIC FORTRAN IV OR EXTENDED SYMBOL LANGUAGES.
COMMENTS:
THIS PACKAGE CONTAINS 103 ROUTINES. ALL BUT ONE WERE WRITTEN IN XDS SIGMA 2 BASIC FORTRAN IV. ONE ROUTINE, RANDU, WAS WRITTEN IN SIGMA 2 EXTENDED SYMBOL.
- 705719 SIGMA 2/3-530 C.O.C. HANDLER (RCOC)
AUTHOR: XEROX
ABSTRACT:
RCOC IS A REAL-TIME TASK CONNECTED TO THE INPUT AND OUTPUT INTERRUPTS OF THE CHARACTER-ORIENTED COMMUNICATIONS CONTROLLER, 7611. RCOC WILL TRANSLATE ASCII TO EBCDIC TO ASCII, PERFORM EDITING AND WILL OPERATE ON HALF OR FULL DUPLEX LINES. RCOC WILL SUPPORT TELETYPE MODELS 33, 35, AND 37. OTHER TERMINALS MAY BE USED BUT THE USER MUST PERFORM ALL SPECIAL EDITING HIMSELF.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS I/O HANDLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
RCOC MUST OPERATE IN AN RBM ENVIRONMENT. RELEASE ELEMENTS ARE ORDERED UNDER THE RBM COVER CATALOG NUMBER 705368.
- 705780 SIGMA 2/3-530 SYMBIONT PLOTTING SYSTEM
AUTHOR: XEROX
ABSTRACT:
WITH THIS SYSTEM, A NORMALLY I/O BOUND PLOT JOB IS NO LONGER I/O BOUND. THE PLOT JOB RUNS AT COMPUTE SPEED AND DOES NOT WAIT FOR PLOTTER I/O. THE PLOT DATA IS SAVED ON THE RAD AND IS COPIED TO THE PLOTTER BY A FOREGROUND PROGRAM. AFTER THE PLOT JOB IS TERMINATED, OTHER JOBS (INCLUDING PLOT JOBS UNLESS THE RAD FILE IS FULL) MAY BE RUN WITH LITTLE INTERFERENCE FROM THE FOREGROUND PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. RELEASE ELEMENTS ARE AVAILABLE UNDER THE RBM COVER CATALOG NUMBER 705368.
- 706149 SIGMA 2/3 RBM BSC PROCEDURAL HANDLER
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS HANDLER IS INTENDED FOR FORTRAN, SYMBOL, OR EXTENDED SYMBOL FOREGROUND USERS OPERATING UNDER THE SIGMA 2/3 RBM OPERATING SYSTEM TO ASSIST IN COMMUNICATION WITH FACILITIES CONNECTED TO CC32A'S USING BINARY SYNCHRONOUS COMMUNICATIONS PROCEDURES.
COMMENTS:
THIS HANDLER REQUIRES THE SIGMA 2/3 RBM HANDLER FOR MESSAGE ORIENTED COMMUNICATIONS DEVICES (PROGRAM 706255). PROGRAM SIZE IS 2116 WORDS INCLUDING CRC REMAINDER TABLE AND TRANSLATION TABLES. SOURCE LANGUAGE IS EXTENDED SYMBOL. TO CHANGE INSTALLATION DEPENDENT PARAMETERS, THE SOURCE CARDS MUST BE DECOMPRESSED (USE PROGRAM 706239 RECON TO DECOMPRESS SOURCE).
- 706244 SIGMA 2/3 SIGMA 2/3 C01/D00 SAVE PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WRITES THE USER AREAS (UP,UD,UL) OF A C01 RBM SYSTEM ON MAGNETIC TAPE IN A FORMAT ACCEPTABLE TO D00 RAD EDITOR.
COMMENTS:
REQUIRES SIGMA 2/3 RBM PLUS 1 MAGNETIC TAPE UNIT.
- 706254 SIGMA 2/3 XEROX DISPLAY STATION PROCEDURAL HANDLER
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
PROVIDES COMMUNICATION THROUGH CC32B'S TO XEROX DISPLAY STATIONS FOR SIGMA 2/3 RBM USERS' PROGRAMS WRITTEN IN FORTRAN (EXTENDED PRECISION ONLY), SYMBOL, AND EXTENDED SYMBOL.
COMMENTS:
THIS HANDLER REQUIRES THE SIGMA 2/3 RBM HANDLER FOR MESSAGE ORIENTED DEVICES. THE CORE REQUIREMENT FOR THIS PROCEDURAL HANDLER IS APPROXIMATELY 2400 LOCATIONS. SOURCE LANGUAGE IS EXTENDED SYMBOL. A NUMBER OF PARAMETERS ARE INSTALLATION DEPENDENT AND WILL PROBABLY HAVE TO BE CHANGED. SINCE THE SOURCE CARDS ARE COMPRESSED, THE USER MUST ORDER THE FOLLOWING PROGRAM NUMBER TO DECOMPRESS THE SOURCE CARDS AND THEN MAKE HIS CHANGES: 706239 - RECON.
- 706255 SIGMA 2/3-530 MESSAGE ORIENTED COMM. DEVICE HANDLER
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE MOCED HANDLER IS A FOREGROUND PROCESSOR TO BE USED UNDER RBM, BY ASSEMBLY LANGUAGE FOREGROUND TASKS, THROUGH PROCEDURAL HANDLER(S), FOR COMMUNICATING WITH ANY DEVICE CONNECTED TO THE CPU THROUGH ONE OR MORE OF THE XEROX MESSAGE ORIENTED COMMUNICATIONS CONTROLLERS (CC32, CC33, C11, 7601-7605). IT PROVIDES QUEUEING OF I/O REQUESTS, DYNAMIC MEMORY ALLOCATION FOR DATA BUFFERS, TIME INTERVAL SCHEDULING OF USER'S ROUTINES, NO WAIT I/O, SIMULTANEOUS SERVICE FOR MULTIPLE USERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS HANDLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
REQUIRES A PROCEDURAL HANDLER ORIENTED TO A SPECIFIC PROTOCOL (E.G., BISYNC OR BC 100/200 DISPLAY). THE USER MAKES CALLS ON THE PROCEDURAL HANDLER WHICH, IN TURN, CALLS THE MOCED HANDLER. RESIDENT - REQUIRES 1105 WORDS (FOR HALF DUPLEX MODE ONLY) TO 1255 WORDS OF CORE, EXCLUSIVE OF QUEUES AND DATA BUFFERS. A NUMBER OF ASSEMBLY PARAMETERS ARE INSTALLATION DEPENDENT.

- 706257 SIGMA 2/3-530 XEROX 530 DISK SORT
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 530 DISK SORT PROVIDES THE USER WITH A POWERFUL TOOL FOR THE RE-ORDERING OF DATA FILES. RECORD KEYS MAY BE ALPHANUMERIC, BINARY, FLOATING POINT, ZONED OR PACKED DECIMAL. SIXTEEN KEYS MAY BE SORTED IN ASCENDING OR DESCENDING SEQUENCE. FILES ARE USER FORMATTED AND MAY BE BLOCKED OR UNBLOCKED FIXED, OR UNBLOCKED VARIABLE IN STRUCTURE. LINKAGES TO AND FROM USER-WRITTEN SUBROUTINES ARE PROVIDED FOR PROCESSING FILE LABELS AND FOR MODIFYING AND/OR DELETING RECORDS. RECORD ADDRESS FILES (ADDROUT ARE PRODUCED BY SORT FOR USE BY RPG.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
XEROX 530 DISK SORT OPERATES ON A XEROX 530 OR SIGMA 3 COMPUTER AS A BACKGROUND PROCESSOR UNDER THE RBM OPERATING SYSTEM. IT REQUIRES A MINIMUM OF 8K WORDS OF CORE STORAGE EXCLUSIVE OF MONITOR STORAGE REQUIREMENTS, BUT WILL DYNAMICALLY ADJUST TOURNAMENT AND BUFFER SIZES TO TAKE ADVANTAGE OF ANY ADDITIONAL CORE THAT MIGHT BE AVAILABLE. TWO DISKPACKS (OR RADS) SIGNIFICANTLY IMPROVE SORT PERFORMANCE OVER THE MINIMUM ONE REQUIRED FOR INTERMEDIATE WORK FILE STORAGE.
- 706275 SIGMA 2/3-530 RBM REPLACE
AUTHOR: XEROX
ABSTRACT:
REPLACE RUNS AS A BACKGROUND PROCESSOR UNDER RBM. ITS PURPOSE IS TO REPLACE RBM'S OVERLAYS WHICH NORMALLY CAN ONLY BE ACCOMPLISHED BY SYSGEN. IT OPTIONALLY REPLACES OVERLAYS TEMPORARILY (UNTIL REBOOTING) SO THAT TESTING MAY BE ACCOMPLISHED WITHOUT LOSS OF SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
RELEASE ELEMENTS ARE ORDERED UNDER THE RBM CATALOG NUMBER 705300.
- 706277 SIGMA 2/3-530 ANS FORTRAN IV
AUTHOR: XEROX CORPORATION
ABSTRACT:
ANS FORTRAN IV IS A SUPERSET OF ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) FORTRAN, AND, AS SUCH, SURPASSES THE REQUIREMENTS IMPOSED BY ANSI SPECIFICATION X3.9-1966. THE SYSTEM CONSISTS OF A COMPILER AND AN ASSOCIATED RUN-TIME LIBRARY. THE CODE PRODUCED BY THE COMPILER, AND THAT CONTAINED WITHIN THE LIBRARY, IS USABLE IN EITHER FOREGROUND OR BACKGROUND ENVIRONMENTS. THE COMPILER, THE CODE PRODUCED BY THE COMPILER, AND THE CODE CONTAINED WITHIN THE LIBRARY, ARE COMPATIBLE WITH THE 530 AND SIGMA 2/3 REAL-TIME BATCH MONITOR (RBM).
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN EXTENDED SYMBOL. ANS FORTRAN IV REQUIRES A 530 OR SIGMA 2/3 WITH RBM (E02 VERSION OR LATER), WITH AT LEAST 8.5K OF BACKGROUND. IN-LINE SYMBOLIC OR OBJECT LISTINGS REQUIRE A BACKGROUND OF AT LEAST 9.5K WORDS. IN ORDER TO ASSEMBLE THE COMPILER, THE MINIMUM BACKGROUND ALLOCATION IS 18K WORDS. ALTHOUGH NOT REQUIRED, IT IS RECOMMENDED THAT SIGMA 3 SYSTEMS BE EQUIPPED WITH HARDWARE MULTIPLY/DIVIDE. 530 SYSTEMS WITH FLOATING POINT HARDWARE SHOULD USE CATALOG NUMBER 708483.
- 706401 SIGMA 2/3-530 XEROX REPORT PROGRAM GENERATOR (RPG II)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 530 RPG II COMPILER IS AN IMPLEMENTATION OF THE RPG II LANGUAGE DESIGNED TO BE COMPATIBLE WITH THE MAJORITY OF OTHER RPG II PROCESSORS IN GENERAL USE THROUGH OUT INDUSTRY. RPG II IS A HIGHLY FLEXIBLE AND CONVENIENT LANGUAGE DESIGNED TO SOLVE COMMERCIAL DATA PROCESSING PROBLEMS. SOLUTIONS ARE CODED ON A SERIES OF SPECIFICATION FORMS. XEROX 530 RPG II OPERATES UNDER CONTROL OF THE REAL-TIME BATCH MONITOR (RBM).
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
FEATURES OF RPG II INCLUDE: ARRAY PROCESSING, DEBUGGING AIDS, BIT PROCESSING CAPABILITIES, BINARY DATA FORMATS, COMPILE TIME TABLE AND ARRAYS AND A CROSS REFERENCE LISTING.
- 706448 SIGMA 2/3 INDUMP
AUTHOR: B. HAGERBAUMER, XEROX
ABSTRACT:
INDUMP IS A STAND ALONE DUMP PROGRAM WHICH OPERATES IN CONJUNCTION WITH RBM BUT DOES NOT REQUIRE IT TO BE OPERABLE.
COMMENTS:
GENERAL DESCRIPTION IN RBM 2/3 REFERENCE MANUAL - APPENDEK M.
- 706463 XEROX 530 ANS FORTRAN IV
AUTHOR: XEROX CORPORATION
ABSTRACT:
ANS FORTRAN IV IS A SUPERSET OF ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) FORTRAN, AND, AS SUCH, SURPASSES THE REQUIREMENTS IMPOSED BY ANSI SPECIFICATION X3.9-1966. THE SYSTEM CONSISTS OF A COMPILER, AND AN ASSOCIATED RUN-TIME LIBRARY. THE CODE PRODUCED BY THE COMPILER, AND THAT CONTAINED WITHIN THE LIBRARY, IS USEABLE IN EITHER FOREGROUND OR BACKGROUND ENVIRONMENTS. THE COMPILER, THE CODE PRODUCED BY THE COMPILER, AND THE CODE CONTAINED WITHIN THE LIBRARY ARE COMPATIBLE WITH THE 530 REAL-TIME MONITOR (RBM).
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

706463 CONTINUED ON FOLLOWING PAGE

- 706483 ANS FORTRAN IV (CONTINUED)
ANS FORTRAN IV REQUIRES A 530 WITH RBM (E02 VERSION OR LATER), WITH AT LEAST 8.5K OF BACKGROUND.
IN-LINE SYMBOLIC OR OBJECT LISTINGS REQUIRE A BACKGROUND OF AT LEAST 9.5K WORDS. IN ORDER TO ASSEMBLE
THE COMPILER, THE MINIMUM BACKGROUND ALLOCATION IS 18K WORDS. FLOATING POINT HARDWARE IS REQUIRED. FOR
530 SYSTEMS WITHOUT FLOATING POINT HARDWARE, USE CATALOG NUMBER 706277.
- 706484 SIGMA 2/3-530 RBM ANALYZE
AUTHOR: XEROX CORPORATION
ABSTRACT:
ANALYZE PROVIDES THE CAPABILITY TO OBTAIN A FORMATTED REPRESENTATION OF THE INTERNAL STATE OF MAJOR RBM
SYSTEM TABLES AND CONTENTS OF MEMORY. INPUT MAY BE FROM EITHER A SYSERR DUMP ON MAGNETIC TAPE OR ON THE
CHECKPOINT AREA, OR MAY BE FROM THE RUNNING MONITOR ITSELF.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 706491 SIGMA 3-530 XEROX SATELLITE PROCESSOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX SATELLITE PROCESSOR PROVIDES XEROX 530 OR SIGMA 3 COMPUTER SITES WITH A CAPABILITY FOR
HIGH-SPEED TELECOMMUNICATIONS WITH OTHER HOST REMOTE COMPUTER SYSTEMS. OPERATING UNDER EITHER XEROX 530
OR SIGMA 3 RBM, THE XEROX SATELLITE PROCESSOR PERMITS COMMUNICATION WITH ANY HOST XEROX COMPUTER RUNNING
UNDER THE CONTROL PROGRAM FIVE (CP-V) OPERATING SYSTEM, OR NON-XEROX HOST COMPUTERS IN ACCORDANCE WITH
THE HASP MULTILEAVING PROTOCOL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
IS WRITTEN IN EXTENDED SYMBOL.
THIS IS A RESTRICTED PROGRAM AND IT REQUIRES SPECIAL AUTHORIZATION TO ORDER IT.
- 706500 SIGMA 3-530 XEROX 530 ANS COBOL COMPILER
AUTHOR: XEROX CORPORATION
ABSTRACT:
XEROX 530 ANS COBOL OFFERS A POWERFUL AND CONVENIENT PROGRAMMING LANGUAGE FOR IMPLEMENTATION OF BUSINESS
OR COMMERCIAL APPLICATIONS. XEROX 530 ANS COBOL IS A SUBSET OF THE 1974 AMERICAN NATIONAL STANDARD
COBOL STANDARD AND CONTAINS THE FOLLOWING MODULES IMPLEMENTED AT THE FIRST LEVEL: NUCLEUS, TABLE
HANDLING, SEQUENTIAL I-O, RELATIVE I-O, INDEXED I-O, (INDEXED SEQUENTIAL ACCESS METHOD), INTER-PROGRAM
COMMUNICATION (LINKAGE, CALL), LIBRARY AND DEBUG. ADDITIONAL CAPABILITIES HAVE BEEN PROVIDED FOR THE
USER IN THE FORM OF PROGRAMMING AIDS SUCH AS A CROSS REFERENCE LISTING, DATA MAP AND A DIAGNOSTIC AND
(OPTIONAL) OBJECT PROGRAM LISTING INTERSPERSED WITH SOURCE LANGUAGE STATEMENTS. ALSO INCLUDED ARE
SELECTED LEVEL 2 EXTENSIONS OF THE NUCLEUS MODULE. THREE LEVELS OF INDEXING OR SUBSCRIBING ARE
PERMITTED IN USER PROGRAMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM-18 OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN EXTENDED SYMBOL. XEROX 530 COBOL CAN PROCESS DATA IN EBCDIC, PACKED
DECIMAL OR BINARY FORM. BINARY ITEMS MAY BE 1, 2 OR 4 WORDS IN LENGTH. THE PROGRAMMER CAN COPY SOURCE
STATEMENTS FROM A USER LIBRARY INTO HIS PROGRAM VIA THE COPY LIBRARY FUNCTION. SEPARATELY COMPILED
SUBPROGRAMS CAN BE OVERLAYED USING MONITOR OVERLAY SERVICES. 530 COBOL REQUIRES 16K WORDS OF BACKGROUND
FOR COMPILATION. USER OBJECT PROGRAMS CAN EXECUTE IN BACKGROUND OR FOREGROUND. COBOL IS FILE
COMPATIBLE WITH 530 RPO II AND 530 DISK SORT. SOURCE STATEMENTS FOR THE COBOL COMPILER SYSTEM ARE
AVAILABLE BY MARKETING FIELD REQUESTS ONLY.
- 880816 SIGMA 2/3-530 UNLABELED SOFTWARE SUPPORT TAPE (SST)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE SST TAPE CONTAINS MAINTENANCE RELEASES OF 18 AND 32 BIT RBM, CP-R AND THEIR ASSOCIATED LANGUAGE
PROCESSORS. FOR EACH SUCH PRODUCT, THERE IS A CORRESPONDING INFORMATION FILE THAT CONTAINS A LIST OF
ALL SIDRS CLOSED SUBSEQUENT TO THE LAST MAJOR RELEASE AS WELL AS OTHER INFORMATION PERTINENT TO THAT
PRODUCT. WHERE APPROPRIATE, THERE IS A TEST CASE THAT CAN BE USED TO INSURE A SUCCESSFUL LOAD.
PRODUCTS WHOSE SOURCE IS INCLUDED AS AN ELEMENT IN THE MAJOR RELEASE WILL HAVE AN ADDITIONAL FILE
CONTAINING SI UPDATES.
THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTWARE SUPPORT. THE SST DISTRIBUTION IS NORMALLY
LIMITED TO XEROX FIELD ENGINEERING OFFICES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS MISC.
THE FIRST THREE FILES ON THE SST ARE FILES RELATIVE TO THE TAPE USAGE. FILE 1 IS TABLE OF CONTENTS;
FILE 2 IS USAGE INSTRUCTIONS; FILE 3 IS DISTRIBUTION LISTS.

PROGRAM AVAILABILITY LIST

SIGMA 2/3-530 CLASS B3
PROGRAM SUMMARIES

| 704005 SIGMA 2/3 GRAPH PLOTTER HANDLER (PLOT)
 | AUTHOR: XEROX
 | ABSTRACT:
 | SUBROUTINE TO PRODUCE LINEAR MOTION FROM ONE PLOTTER POSITION TO ANOTHER.
 | COMMENTS:
 | PROGRAM OPERATES ON ANY SIGMA 2 COMPUTER WITH XDS 7530 GRAPH PLOTTER. CORE RESIDENCY IS 179 WORDS.

704028 SIGMA 2 COMMAND SYS II, SECT 1-MESSAGE PROCESSOR
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
 COMMENTS:
 MESSAGE PROCESSOR SECTION

704034 SIGMA 2 COMMAND SYS II, SECT 3-TONE/DIGITAL TAPE
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
 COMMENTS:
 TONE AND TONE DIGITAL TAPE INPUT SECTION

704037 SIGMA 2 COMMAND SYS II, SECT 6-10 CONTROL/UTILITY
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
 COMMENTS:
 INPUT OUTPUT CONTROL AND UTILITY SECTION

704038 SIGMA 2 COMMAND SYS I, SECT 1- UTILITY AND IO
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
 COMMENTS:
 UTILITY AND INPUT OUTPUT SECTION

704056 SIGMA 2 COMMAND SYS I, SECT 2-SWITCH LIGHT CNTRL
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
 COMMENTS:
 SWITCH LIGHT CONTROL SECTION

704073 SIGMA 2 STAND-ALONE RAD HANDLER
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM DIVIDES THE RAD INTO TWO SECTIONS ENABLING IT TO SIMULATE TWO MAG TAPE UNITS. IT ALLOWS
 READ/WRITE AND REWIND CONTROL OPERATIONS AND IS USED EXACTLY AS A MAG TAPE UNIT. IT HAS NO CAPABILITY
 FOR PAGE EJECT, BACKSPACE FILE, BACKSPACE 0 RECORD, WRITE END OF FILE AND SPACE FILE FORWARD. THE SIZE OF
 EACH SECTION IS DETERMINED BY A VALUE SET IN THE DATA SWITCHES BY THE USER. THE USER CAN EFFECTIVELY
 HAVE ONLY ONE LARGE SECTION IF HE SO DESIRES. THIS PROGRAM CAN BE UTILIZED FOR ALL SIGMA 2 RAD UNITS.
 COMMENTS:
 CONFIGURATION: SIGMA 2 STAND-ALONE CONFIGURATION PLUS A RAD.

704181 SIGMA 2 STAND-ALONE MATH LIBRARY (COVER)
 AUTHOR: XEROX
 ABSTRACT:
 THE MATH LIBRARY CONTAINS 37 MATH AND ARITHMETIC SUBROUTINES WRITTEN IN ASSEMBLY LANGUAGE (SYMBOL) FOR
 THE SIGMA 2. THIS PROGRAM INCLUDES ROUTINES FOR TEMPORARY STORAGE ALLOCATION, ARGUMENT TRANSFER, AND
 ERROR REPORTING. THESE ROUTINES CAN BE UTILIZED BY SIGMA 2 ASSEMBLY LANGUAGE PROGRAMS, RUNNING UNDER THE
 STAND-ALONE SYSTEM. SUBROUTINE DESCRIPTIONS AND CALLING SEQUENCES ARE CONTAINED IN PROGRAM DESCRIPTION
 704181-11.
 COMMENTS:
 THESE ROUTINES AREN'T REENTRANT, BUT THEY WILL BE SUPPLEMENTED BY A REENTRANT MATH LIBRARY WHICH WILL
 OPERATE UNDER SIGMA 2 BCM/RBM SYSTEMS. THERE WILL ALSO BE AN EXTENDED PRECISION MATH LIBRARY AVAILABLE
 UNDER RBM. THERE IS NO FORTRAN PROCESSOR AVAILABLE WITH WHICH TO USE THESE ROUTINES UNDER THE
 STAND-ALONE SYSTEM.

704183 SIGMA 2 DEBUG WITH TRACE
 AUTHOR: XEROX
 ABSTRACT:
 DEBUG WITH TRACE OPERATES IN A STAND-ALONE ENVIRONMENT USING U:IOCS TO PERFORM INPUT/OUTPUT FUNCTIONS. IT
 IS LOADED AS A RELOCATABLE MODULE AT THE SAME TIME A USER PROGRAM IS LOADED. SIGMA 2 STAND-ALONE DEBUG
 PROGRAM (CATALOG, 704455) PLUS TRACE AND SNAPSHOT CAPABILITY.
 COMMENTS:
 THIS PROGRAM WILL RUN ON ANY SIGMA 2 CONFIGURATION WITH A MINIMUM OF 8K MEMORY AND REQUIRES 3040 DECIMAL
 LOCATIONS OF STORAGE.

- 704209 SIGMA 2 COMMAND SYS I, SECT 4-TELEMETRY AND TONES
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
COMMENTS:
TELEMETRY AND TONES SECTION
- 704342 SIGMA 2/3 REAL-TIME CLOCK I FOREGROUND DEMO
AUTHOR: XEROX
ABSTRACT:
THIS FOREGROUND TASK READS THE CONSOLE DATA SWITCHES EVERY TEN SECONDS AND OUTPUTS THE VALUE ON THE OC DEVICE. STANDARD BCM CONFIGURATION, REAL-TIME CLOCK I, AND X'SE' OF FOREGROUND SPACE IS REQUIRED.
- 704344 SIGMA 2 COMMAND SYS I, SECT 5-TONES DIGITAL/FSK
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
COMMENTS:
TONES DIGITAL AND FSK SECTION
- 704345 SIGMA 2 COMMAND SYS I, SECT 6-PROGRAM GENERATOR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
COMMENTS:
SYSTEM PROGRAM GENERATOR SECTION
- 704346 SIGMA 2 COMMAND SYS I, SECT 7-DATA BASE OVERLAY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM I DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
COMMENTS:
DATA BASE OVERLAY SECTION
- 704347 SIGMA 2/3 BCM BACKGROUND DEMONSTRATION PROGRAMS
AUTHOR: XEROX
ABSTRACT:
THIS CATALOG NUMBER IS A COVER NUMBER FOR BCM BACKGROUND DEMONSTRATION PROGRAMS. IT INCLUDES THE FOLLOWING DEMOS: BASIC FORTRAN COMPILATION DIAGNOSTICS BASIC FORTRAN MATH/RUN-TIME DIAGNOSTICS (WITH DATA) BASIC FORTRAN FEATURES (WITH DATA) SYMBOL EXERCISER AND DEMONSTRATION SYMBOL ERROR DEMONSTRATION
- 705365 SIGMA 2/3 EXERCISER FOR CCS-20 DATA LINK
AUTHOR: XEROX CORPORATION, DATA SYSTEM DIVISION
ABSTRACT:
THIS PROGRAM AIDS IN CHECKOUT AND SETUP OF CCS-20 DATA LINKS WHEN A SIGMA 2/3 IS THE ONLY MACHINE AVAILABLE. THE SIGMA 2/3 ACTS AS BOTH THE TRANSMITTER & RECEIVER OF DATA. THE USER SPECIFIES THE OPERATION OF THE PROGRAM BY THE SETTING OF THE CONSOLE DATA SWITCHES. THE PROGRAM REPORTS ERROR BY GOING TO A WAIT STATE IN VARIOUS LOCATIONS OF THE PROGRAM
COMMENTS:
THE PROGRAM IS LOADED WITH AN ABSOLUTE BOOTSTRAP LOADER. ITS SIZE IS 278 WORDS. SOURCE LANGUAGE IS SIGMA 2/3 SYMBOL.
- 705378 SIGMA 2 ANALOG REDUCTION REPORT GENERATOR
AUTHOR: XEROX
ABSTRACT:
PROVIDES A MEANS OF RAPIDLY VIEWING OVERALL ANALOG SYSTEM PERFORMANCE. THIS SERVICE IS DONE THROUGH THE USE OF THREE TYPES OF REPORTS. THEY ARE-LISTING IN A CHRONOLOGICAL ORDER OF EVERY VALUE TAKEN, TABULATIONS OF TRUE DELTA MEAN VOLTAGES, AND GRAPHICAL DISPLAYS IN THE FORM OF DELTA MEAN VOLTAGE VS. CHANNEL NUMBER.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. CONFIGURATION:XDS SIGMA 2, 18K CORE TWO MAG TAPES OR ONE MAG TAPE AND ONE RAD, LINE PRINTER,KEYBOARD PRINTER,CARD READER
- 705686 SIGMA 2 COMMAND SYS II, SECT 2-FSK TAPE INPUT
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM II DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
COMMENTS:
FSK TAPE INPUT SECTION

- 705667 SIGMA 2 COMMAND SYS 1, SECT 3-DATA BASE LOADING
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM 1 DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980271
COMMENTS:
DATA BASE LOADING SECTION
- 705729 SIGMA 2 A.C. ELECTRONICS DATA ACQUISITION
AUTHOR::XDS
ABSTRACT:
CONVERTS ANALOG DATA AT 100 HZ RATE AND RECORDS THE DATA IN A FIXED FORMATE DIGITAL TAPE FOR REDUCTION.
- 705777 SIGMA 2/3 ROMBUST
AUTHOR: XEROX
ABSTRACT:
ROMBUST IS A UTILITY PROGRAM WHICH LISTS AN OBJECT PROGRAM (SIGMA 2/3 STANDARD OBJECT LANGUAGE) IN AN EASY TO READ FORMAT.
COMMENTS:
ROMBUST IS USEFUL IN CHECKING OUT PROCESSORS WHICH PRODUCE OBJECT PROGRAMS.
- 705779 SIGMA 2/3 FORTRAN LIBRARY PROCEDURES
AUTHOR: XEROX
ABSTRACT:
THIS PROCEDURE SYSTEM ALLOWS THE EXTENDED SYMBOL PROGRAMMER TO INTERFACE WITH THE FORTRAN LIBRARY ARITHMETIC AND I/O ROUTINES IN A SIMPLE, HIGHER LEVEL LANGUAGE. THE PROCEDURES AUTOMATICALLY GENERATE THE REQUIRED EXTERNAL REFERENCES, SUBROUTINE LINKAGES, AND ARGUMENT LISTS TO PROPERLY CALL THE INDICATED ROUTINE.
COMMENTS:
COVER INCLUDES TWO SOURCE PROGRAMS FOR CREATING BOTH A STANDARD AND AN EXTENDED PRECISION STANDARD PROCEDURE FILE. A PROGRAM IS ASSEMBLED IN EITHER PRECISION BY ASSIGNMENT OF 'S2' TO THE DESIRED FILE.
- 705847 SIGMA 2/3 NON-STANDARD BCM COVER
AUTHOR: XEROX
ABSTRACT:
THIS COVER NUMBER CONTAINS THREE NON-STANDARD VERSIONS OF THE SIGMA 2 BASIC CONTROL MONITOR (BCM). THEY ARE: 1) RAD BCM, 2) RAD BCM WITH DEBUG, 3) BCM WITH DEBUG. RAD BCM IS A MODIFIED VERSION OF BCM WHICH ALLOWS THE RESIDENT MONITOR AND ITS PROCESSORS TO BE STORED ON A RAD. IT DOES NOT ALLOW OPERATIONAL LABELS TO BE ASSIGNED TO THE RAD; THEREFORE THE LIBRARY MAY NOT BE LOADED FROM THE RAD AND B1 AND B0 MAY NOT BE PLACED ON THE RAD. THE SYSTEMS WITH DEBUG INCLUDE A DUMP TO DUMP THE MONITOR, FOREGROUND, OR BACKGROUND UNDER OPERATOR CONTROL. IT ALSO ALLOWS MODIFICATION OF CORE THROUGH CONTROL COMMANDS.
COMMENTS:
RAD BCM USES RAD ADDRESSES X'0000' - X'0100' RAD BCM REQUIRES FULL CCI TO BE REQUESTED AT SYSGEN AND IS APPROXIMATELY 291 DECIMAL LOCATIONS LARGER THAN THE STANDARD BCM.
DEBUG REQUIRES THAT A FOREGROUND OPERATIONAL LABEL OF 'DO' BE ASSIGNED AND ADDS APPROXIMATELY 800 DECIMAL LOCATIONS TO THE SYSTEM IT IS INCLUDED WITH. THE BINARY FORM OF THIS SYSTEM IS OBTAINED BY ASSEMBLING THE STANDARD BCM (704457) WITH THE DESIRED CONDITIONAL ASSEMBLY SWITCHES EQUAL TO YES. TO ORDER THIS PRODUCT, SUBMITT A FIELD REQUEST (FORM 1435) SPECIFYING THOSE OPTIONS DESIRED.
- 705853 SIGMA 2/3 SIU 7915 HANDLER (EXT. PREC. FORTRAN)
AUTHOR: XEROX
ABSTRACT:
PROVIDES ACCESS TO THE 7915 ANALOG INPUT CONTROLLER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE EXTENDED PRECISION MODE OF OPERATION. IT PROVIDES FOUR CALL STATEMENTS: 1-TO SET UP ANALOG INPUT OPERATIONS FOR LATER EXECUTION AND OPTIONALLY SPECIFY CHAINING OF OPERATIONS. 2-TO INITIATE THE PREVIOUSLY SET UP INPUT OPERATIONS AND OPTIONALLY RETURN IMMEDIATELY OR WAIT FOR COMPLETION OF INPUT OR SPECIFY A TASK TO BE TRIGGERED UPON COMPLETION OF INPUT. 3-TO TEST THE CONDITION OF A 7915. 4-TO TERMINATE INPUT OF A 7915.
COMMENTS:
LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 378 LOCATIONS; SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT. ONE OF THE ROUTINES CONTAINS INSTALLATION DEPENDENT PARAMETERS AND SHOULD BE REASSEMBLED FOR EACH INSTALLATION.
- 705855 SIGMA 2/3 SIU 7930/31 HANDLER (EXT. PREC. FORTRAN)
AUTHOR: XEROX
ABSTRACT:
PROVIDES ACCESS TO THE 7930/31 DIGITAL I/O ADAPTER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE EXTENDED PRECISION MODE OF OPERATION. IT PROVIDES THREE CALL STATEMENTS: 1-TO SET UP I/O OPERATIONS FOR LATER EXECUTION AND OPTIONALLY SPECIFY CHAINING OR LOOPING OF OPERATIONS. 2-TO PERFORM THE PREVIOUSLY SET UP I/O OPERATIONS. 3-TO MODIFY A VALUE GIVEN DURING SET UP THEN OUTPUT IT.
COMMENTS:
LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 222 LOCATIONS. SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT.

- 705856 SIGMA 2/3 SIU 7930/31 HANDLER (STAND.PREC.FORTRAN)
AUTHOR: XEROX
ABSTRACT:
PROVIDES ACCESS TO THE 7930/31 DIGITAL I/O ADAPTER FOR THE FORTRAN USER UNDER THE RBM SYSTEM IN THE STANDARD PRECISION MODE OF OPERATION. IT PROVIDES THREE CALL STATEMENTS: 1-TO SET UP I/O OPERATIONS FOR LATER EXECUTION AND SPECIFY ACTION TO BE TAKEN ON COMPLETION OF EACH OPERATION. 2-TO PERFORM THE PREVIOUSLY SET UP I/O OPERATIONS. 3-TO MODIFY A VALUE GIVEN DURING SET UP THEN OUTPUT IT.
COMMENTS:
LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY WHERE IT OCCUPIES 223 LOCATIONS. SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL. MODE OF OPERATION IS REENTRANT.
- 705880 SIGMA 2/3 CONTROL PROGRAM FOR E-H MEMORY TESTER
AUTHOR: XEROX
ABSTRACT:
IMPLEMENTS ON SIGMA 2/3 THE CONTROL PROGRAM OF E H RESEARCH LABORATORIES, INC. FOR THE MODEL 8500 PLATED WIRE PLANE TEST.
COMMENTS:
THE CORE REQUIREMENT IS APPROX. 8600 LOCATIONS. SOURCE LANGUAGE IS SIGMA 2/3 BASIC FORTRAN AND SYMBOL.
- 705895 SIGMA 2/3 MOC CONTROLLER 7601 HANDLER
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES A BASIC FORTRAN IV USER WITH ACCESS TO EXTERNAL DEVICES CONNECTED VIA A MODEL 7601 CONTROLLER OPERATING IN THE FULL DUPLEX MODE.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. IT IS THEREFORE NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS DIVISION FOR INSTALLATION CHARGES.
- 705898 SIGMA 2/3 7923 SIU HANDLER (FORTRAN)
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THIS HANDLER IS A FORTRAN CALLABLE RE-ENTRANT ROUTINE WHICH PROVIDES ACCESS TO THE XDS ANALOG INPUT/OUTPUT ADAPTOR, MODEL 7923 FROM THE RBM FOREGROUND.
COMMENTS:
THE HANDLER MAY BE CALLED FROM A BACKGROUND PROGRAM PROVIDED IT IS LOADED IN THE RBM SYSTEM AS PART OF THE PUBLIC LIBRARY (SEE RBM REFERENCE MANUAL #901037C FOR DETAILS).
- 706108 SIGMA 3 RAYTHEON RECORDER DEMO PROGRAM
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO DEMONSTRATE THE PERFORMANCE OF THE RAYTHEON RECORDER AND CONTROLLER WHEN IT OPERATES WITH THE BESS1 SIGMA 3 COMPUTER
COMMENTS:
HARDWARE CONFIGURATION: SIGMA 3 COMPUTER, KEYBOARD PRINTER, CARD READER, COUNTER 1 REAL-TIME CLOCK RAYTHEON RECORDER AND CONTROLLER.
- 706115 SIGMA 2/3 7910 SIU HANDLER (EXT.PREC.FORTRAN)
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES ACCESS TO THE 7910 ANALOG OUTPUT ADAPTOR FOR THE EXTENDED PRECISION FORTRAN USER UNDER RBM. THREE CALLS ARE PROVIDED TO: 1-SET UP I/O TABLE FOR OUTPUT. 2-INITIATE OUTPUT TO THE 7910. 3-TEST CURRENT STATUS OF THE 7910.
COMMENTS:
SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 210 CELLS. MODE OF OPERATION IS REENTRANT. RBM SERVICE ROUTINE M:IOEX IS USED TO INITIATE OUTPUT AND TEST 7910 DEVICE STATUS. LOADED BY THE OVERLAY LOADER FROM EITHER THE 'GO' OP-LABEL OR FROM ANY OF THE RBM LIBRARIES.
- 706116 SIGMA 2/3 7910 SIU HANDLER (STD PREC FORTRAN)
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES ACCESS TO THE 7910 ANALOG OUTPUT ADAPTOR FOR THE STANDARD PRECISION FORTRAN USER UNDER RBM. THREE CALLS ARE PROVIDED TO: 1-SET UP I/O TABLE FOR OUTPUT. 2-INITIATE OUTPUT TO THE 7910. 3-TEST CURRENT STATUS OF THE 7910.
COMMENTS:
SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 200 CELLS. MODE OF OPERATION IS REENTRANT. RBM SERVICE ROUTINE M:IOEX IS USED TO INITIATE OUTPUT AND TEST 7910 DEVICE STATUS. LOADED BY THE OVERLAY LOADER FROM EITHER THE 'GO' OP-LABEL OR FROM ANY OF THE RBM LIBRARIES.
- 706123 SIGMA 2/3 7969 SIU HANDLER (FORTRAN)
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES ACCESS TO THE 7969 FREQUENCY CONTROL SUBSYSTEM FOR THE FORTRAN (EXTENDED OR STANDARD PRECISION) USER UNDER RBM. THE USER SPECIFIES A FREQUENCY SOURCE UNIT AND A COUNT VALUE USED TO SET UP CLOCK PULSES AT THE DESIRED FREQUENCY.
COMMENTS:
SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 40 CELLS. ROUTINE IS REENTRANT AND CAN THUS EXECUTE FROM PUBLIC LIBRARY.

- 706171 SIGMA 2/3 7929 SIU HANDLER (EXT PREC FORTRAN)
AUTHOR:XDS, DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES ACCESS TO THE 7929 IOP TO DIO ADAPTOR FOR THE EXTENDED PRECISION FORTRAN USER RUNNING UNDER RBM. THREE CALLS ARE PROVIDED WHICH ALLOW THE USER TO SET UP I/O TABLES, INITIATE I/O, AND TEST STATUS OF THE I/O REQUEST. THE HANDLER CAN SET UP I/O OPERATIONS FOR A 7923 OR 7930 SIU CONNECTED TO THE 7929 DIOA INTERFACE.
COMMENTS:
SOURCE LANGUAGE IS SIGMA 2/3 EXTENDED SYMBOL AND STORAGE SIZE IS 260 WORDS. RBM SERVICE ROUTINE M:IOEX IS USED TO PERFORM THE REQUIRED I/O AND STATUS CHECKING OPERATIONS; FORTRAN LIBRARY ROUTINES M:PUSH AND L:ERROR ARE USED FOR TEMP STORAGE MANAGEMENT AND ARGUMENT ERROR REPORTING. THE HANDLER IS REENTRANT AND MAY EXECUTE FROM THE PUBLIC LIBRARY.
- 706239 SIGMA 2/3 RECON COMPRESSED TO SYMBOLIC CONVERTER
AUTHOR:XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
CONVERT A FILE OF COMPRESSED RECORDS (CARD IMAGES) TO A SYMBOLIC FILE. PROGRAM OPERATES UNDER CONTROL OF RBM OR BCM. PROGRAM WILL PROCESS DECKS EVEN THOUGH THERE ARE ERRORS IN THE COMPRESSED DECK SO THAT SYMBOLIC FILES MAY BE MADE FROM DAMAGED COMPRESSED DECKS.
- 706241 SIGMA 2/3 RECON S/A COMPRESSED TO SYMBOLIC CONVER.
AUTHOR:XDS, WESTERN TECHNOLOGY DIVISION
ABSTRACT:
CONVERT A FILE OF COMPRESSED RECORDS (CARD IMAGES) TO A SYMBOLIC FILE. PROGRAM OPERATES WITHIN THE STAND-ALONE SYSTEM. PROGRAM WILL PROCESS DECKS EVEN THOUGH THERE ARE ERRORS IN THE COMPRESSED DECK SO THAT SYMBOLIC FILES MAY BE MADE FROM DAMAGED COMPRESSED DECKS.
- 706245 SIGMA 2/3 SYMBOLIC COMPRESSOR FOR STAND-ALONE
AUTHOR:XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
PROGRAM CONVERTS AN EBCDIC FILE (SYMBOLIC CARD DECK) TO A COMPRESSED FILE. PROGRAM RUNS IN THE STAND-ALONE SYSTEM.
COMMENTS:
PROGRAM READS THE SI FILE AND WRITES THE BO FILE.
- 706246 SIGMA 2/3 SYMBOLIC COMPRESSOR FOR RBM/BCM
AUTHOR:XDS WESTERN TECHNOLOGY CENTER
ABSTRACT:
PROGRAM CONVERTS AN EBCDIC FILE (SYMBOLIC CARD DECK) TO A COMPRESSED FILE.
COMMENTS:
PROGRAM WILL RUN IN RBM OR BCM. IT READS RECORDS FROM THE SI FILE AND WRITES ON THE BO FILE. PROGRAM REQUIRES 500 CELLS.
- 706252 SIGMA 2/3 TELETYPE TERMINAL SIMULATOR PROGRAMS
AUTHOR: XEROX
ABSTRACT:
THE TELETYPE TERMINAL SIMULATOR IS A REAL TIME PROGRAM THAT OPERATES UNDER SIGMA 2/3 RBM. TTS CAN SIMULATE UPTO 60 ON-LINE TELETYPES INTO A TIME SHARING SYSTEM. TTS PRIMARY FUNCTION IS TO TEST TIME SHARING SYSTEMS.
- 706501 SIGMA 2/3-530 RBM-16 DATADEF
AUTHOR:XEROX CORPORATION
ABSTRACT:
PROVIDES A SET OF COMMAND PROCEDURES WHICH ALLOWS THE XSYMBOL PROGRAMMER TO DIVORCE DATA DESCRIPTION FROM THE ACCESS AND MANIPULATION OF THIS DATA, WHILE RETAINING FULL USE OF THE XSYMBOL LANGUAGE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS XSYMBOL PROCEDURES. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
REQUIRES E00 AND SUBSEQUENT VERSION OF XSYMBOL.
REQUIRES 3K WORDS FOR PROCEDURE DEFINITIONS DURING ASSEMBLY PHASE.
- 890328 SIGMA 2/3 COGO COORDINATE GEOMETRY LANG.-CIVIL ENG
AUTHOR:J. THOMPSON,XDS DOCUMENTATION:K. JAMERSON,XDS
ABSTRACT:
COGO IS A PROBLEM ORIENTED LANGUAGE THAT PROVIDES ENGINEERS WITH THE MEANS OF SOLVING COORDINATE GEOMETRY PROBLEMS BY COMPUTER WITHOUT THE NECESSITY OF PRIOR COMPUTER EXPERIENCE. PROBLEMS ARE STATED IN TERMS THAT ARE FAMILIAR TO THE ENGINEER AND NO PROGRAMMING IN THE USUAL SENSE OF THE WORD IS NECESSARY. DESIGNED SPECIFICALLY FOR CIVIL ENGINEERING GEOMETRY PROBLEMS. COGO MAY ACTUALLY BE USED IN OTHER APPLICATION AREAS AS WELL. IT CAN BE APPLIED FOR EXAMPLE TO PROBLEMS ENCOUNTERED IN HIGHWAY DESIGN, INTERCHANGE DESIGN, CONTROL SURVEYS, BRIDGE GEOMETRY, CONSTRUCTION LAYOUT, LAND SURVEYING, AND MANY OTHERS.
COMMENTS:
PROGRAM TYPE:PROCESSOR LANGUAGE:BASIC FIV SYSTEM:RBM STORAGE:16K MIN SYSTEM DOC.PAGES:104

- 890389 SIGMA 2/3 TEXT EDITOR FOR SIGMA 2
AUTHOR: B. SHERWOOD & M. CHEN, INSTITUTE OF TECH.
ABSTRACT:
THIS TEXT EDITOR IS A COLLECTION OF FORTRAN SUBROUTINES WHICH FACILITATE MANIPULATION OF LARGE BLOCKS OF TEXT IN CORE WHICH IS MUCH MORE CONVENIENT THAN THE SEQUENTIAL EDITING OF UTILITY REEDIT. THE EDITOR PERMITS SELECTIVE INPUT, OUTPUT, AND LISTING OF TEXT AS WELL AS DELETION, INSERTION, AND REPLACEMENT OF LINES.
- 890523 SIGMA 2 DEBUG/TRACE (SIGMA 2)
AUTHOR: H.H. BLACKER, LEEDS & NORTHRUP COMPANY
ABSTRACT:
THE TRACE WAS ADDED DIRECTLY TO THE DEBUG PACKAGE BY MODIFYING THREE LOCATIONS. FIRST, THE NUMBER OF CONTROL COMMANDS WAS CHANGED TO 10. SECOND, A LITERAL 'Q' WAS ADDED TO THE LIST OF ALLOWABLE COMMAND CHARACTERS. THIRD, AN ADDRESS LITERAL POINTING TO TRACE WAS ADDED TO THE ROUTINE BRANCHING TABLE IN A POSITION CORRESPONDING TO THE POSITION OF 'Q' ABOVE. ALSO, THE LOCATIONS LABELLED DUMPX AND INTLOC WERE MOVED TO THEIR PRESENT LOCATIONS TO FACILITATE THE USE OF THE PANEL INTERRUPT.
AS WRITTEN, THE TRACE WILL TREAT THE WD/RD INSTRUCTIONS LIMITED AS NOP'S, HOWEVER I/O CAN BE TRACED IF THE RESTRICTIONS POINTED OUT IN THE DOCUMENTATION ARE FOLLOWED. ON THE OUTPUT LISTING, THE COMMANDS ARE SELF-EXPLANATORY, HOWEVER RTOR IS A COPY-TYPE COMMAND AND CNDB IS A CONDITIONAL BRANCH.
- 890579 SIGMA 2/3 COMMERCIAL SUBSET FOR BUS. APPLICATIONS
AUTHOR: XEROX
ABSTRACT:
A GROUP OF 20 SUBROUTINES DESIGNED TO SUPPLY A PRACTICAL METHOD OF PROGRAMMING BASIC BUSINESS APPLICATIONS. CAN BE USED IN EITHER BASIC FORTRAN IV OR EXTENDED SYMBOL. THE USE OF THESE ROUTINES REMOVES THE MAGNITUDE PROBLEM (EXTENDED PRECISION LIMITED TO NINE DIGITS) AND ACCURACY PROBLEM (THE INACCURATE REPRESENTATION OF FRACTIONS). THERE IS NO PRACTICAL LIMIT TO THE NUMBER OF DIGITS WHICH CAN BE HANDLED.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN/XSM SYSTEM: RBM DOCU.PAGES: 44 DATE: 05/18/70
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE -11 IS BEING REVISED WITH THIS VERSION. THE -34 (CARD DECK) AND -36 (MAG TAPE) VERSION A01 STILL APPLY.
- 890584 SIGMA 2/3 TIME-OF-DAY SUBROUTINE
AUTHOR: C. CODLING, XDS
ABSTRACT:
ALLOWS FORTRAN AND XSYMBOL USERS TO OBTAIN MILITARY TIME OF DAY AS AN INTEGER BINARY VALUE, AND SECONDS THEREOF AS A FLOATING POINT VARIABLE.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: XSYMBOL SYSTEM: RBM STORAGE: 56 DOCU.PAGES: 2
- 890670 SIGMA 2/3 SIGMAS-XDS SIGMA 2/3 ASSEMBLER CDC-6400
AUTHOR: J. RENNO, AURA KITT PEAK NATIONAL OBSERVATORY
ABSTRACT:
SIGMAS IS A FORTRAN EXTENDED PROGRAM WHICH ACCEPTS AS INPUT A PROGRAM FOR AN 8K XDS SIGMA 2/3 COMPUTER. SIGMAS RUNS ON THE CDC 6400 COMPUTER, PRODUCES AS OUTPUT A NON-SELF-LOADING PUNCHED PAPER TAPE BEARING IN ABSOLUTE OR RELOCATABLE FORM THE PROGRAM IN BINARY SIGMA 2/3 MACHINE-CODE AND A LISTING CONTAINING THE PROGRAM IN ITS ORIGINAL SYMBOLIC FORM AND ITS TRANSLATED HEXIDECIMAL REPRESENTATION.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV EXT. DOCU.PAGES: 42. A BIPARTITE LOADER IS PROVIDED WHEREWITH THE SIGMA 2/3 PROGRAM IS LOADED FOR EXECUTION. EXTENDED FORTRAN IS REQUIRED.
- 890671 SIGMA 2/3 RBM/3 GASP II SIMULATION PROGRAM
AUTHOR: C. CODLING, XEROX DATA SYSTEMS
ABSTRACT:
RBM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM. IT IS USED FOR DISCRETE SIMULATION; THE USER WRITES, IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT VERSUS QUEUEING ORIENTED.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: RBM STORAGE: 5000 DOCU.PAGES: 8 DATE: 09/17/70.
DUE TO THE LARGE STORAGE REQUIREMENTS, THE USER MAY WISH TO SEGMENT THE PROGRAMS. CALLS TO M:SEGLO VIA THE SEGLO SUBROUTINE WILL NEED TO BE INSERTED IN THE SOURCE DECK AS REQUIRED.
- 890697 SIGMA 2/3 ROUTINES - REAL-TIME EXTENSIONS
AUTHOR: T. GILLAM, XEROX DATA SYSTEMS
ABSTRACT:
THIS PACKAGE CONTAINS 23 ROUTINES WHICH ALLOW THE USER TO EXPAND THE REAL-TIME CAPABILITIES OF FORTRAN. INCLUDED ARE ROUTINES TO:
START TIMER, CANCEL TIMER, INHIBIT/UNINHIBIT THE INTERRUPTS, PERFORM ALL INTERRUPT OPERATIONS, LOGICAL AND, LOGICAL INCLUSIVE OR, TEST A BIT, PERFORM SHIFT OPERATIONS ON A WORD AND MANY OTHERS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: XSYMBOL SYSTEM: RBM STORAGE: 245 DOCU.PAGES: 25 DATE: 10/08/70.

- 890704 SIGMA 3 SIGMA 3 TO 1108 REMOTE JOB ENTRY (RBM)
AUTHOR:R. HANSON, W. LINGO - XEROX DATA SYSTEMS
ABSTRACT:
PROVIDES A STANDARD COMMUNICATIONS PROGRAM BETWEEN THE XDS SIGMA 3 AND UNIVAC 1108 COMPUTERS USING EXEC 8. THE PROGRAM RUNS IN THE FOREGROUND AS A FOREGROUND PROCESSOR, ALLOWS OVERLAPPED USE OF THE SIGMA 3 I/O DEVICES AND AMONG OTHER CHARACTERISTICS PROVIDES THE LOCAL OPERATIONS OF A 80/80 LISTING AND REPRODUCTIONS IN EITHER BCD OR EBCDIC.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:RBM DOCU.PAGES:26
- 890705 SIGMA 3 SIGMA 3 TO 1108 REMOTE JOB ENTRY (BCM)
AUTHOR:R. HANSON/W. LINGO - XEROX DATA SYSTEMS
ABSTRACT:
PROVIDES A STANDARD COMMUNICATIONS PROGRAM BETWEEN THE XDS SIGMA 3 AND UNIVAC 1108 COMPUTERS USING EXEC 8. THE PROGRAM RUNS IN THE FOREGROUND AS A FOREGROUND PROCESSOR, ALLOWS OVERLAPPED USE OF THE SIGMA 3 I/O DEVICES AND AMONG OTHER CHARACTERISTICS PROVIDES THE LOCAL OPERATIONS OF A 80/80 LISTING AND REPRODUCTIONS IN EITHER BCD OR EBCDIC.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BCM DOCU.PAGES:25
- 890710 SIGMA 2/3 SIGDAS- SIGMA DIGITAL ANALOG SIMULATOR
AUTHOR:CHARLES CODLING, XEROX DATA SYSTEMS
ABSTRACT:
A BLOCK-DIAGRAM ORIENTED CONTINUOUS SIMULATION LANGUAGE WHICH PROVIDES A FLEXIBLE ON-LINE CHANGE OR 'TUNING' CAPABILITY NOT FOUND ON MANY SIMULATION SYSTEMS. THE USER MAY CODE HIS OWN SPECIAL FUNCTION SUBROUTINES, EACH OF WHICH IS OVERLAID.
COMMENTS:
PROGRAM TYPE:SIMULATOR LANGUAGE:FORT/XSYM SYSTEM:RBM STORAGE:7760 DOCU.PAGES:28
OPERATES UNDER RBM MINIMUM CONFIGURATION AND MAY BE EXPANDED AS THE NEED FOR MORE COMPLEX SIMULATIONS OCCUR. CURRENT SYSTEM LIMIT IS 75 BLOCKS EACH WITH NO MORE THAN THREE INPUTS. NO MORE THAN 25 UNIT-DELAY ELEMENTS, FUNCTION GENERATORS (WITH 11 INTEVALS), OR INTEGRATORS MAY BE SPECIFIED. THESE VALUES MAY BE EXPANDED AS CORE CAPACITIES INCREASE.
- 890712 SIGMA 2/3 PRINTER PLOT SUBROUTINE
AUTHOR:C. CODLING, XEROX DATA SYSTEMS
ABSTRACT:
FORTRAN CALLABLE SUBROUTINE ALLOWS USER TO PLOT UP TO 90 CONCURRENT GRAPHS OVER A 100 POINT INTERVAL ON THE LINE PRINTER OR OTHER SIMILAR DEVICE. MULTIPLE CALLS WILL CREATE A TWO-DIMENSIONAL EFFECT.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTTRAN IV SYSTEM:RBM STORAGE:325 DOCU.PAGES:4
- 890719 SIGMA 2/3 CONTINUOUS SYSTEM SIMULATOR (CSS/3)
AUTHOR: XEROX
ABSTRACT:
CSS/3 PROVIDES THE ENGINEER WITH A SIMPLE YET VERSATILE MEANS FOR DIGITAL SIMULATION OF CONTINUOUS PROCESSES. IT PROVIDES A LARGE COMPLEMENT OF FUNCTIONAL ELEMENTS AND A BLOCK-ORIENTED LANGUAGE FOR SPECIFYING THEIR INTERCONNECTION. IN ADDITION, CSS/3 UTILIZES THE XDS 7530 OR 7531 PLOTTER, IN WHICH CASE ALL OUTPUT IS TO THE CONSOLE TYPEWRITER. THE CONSOLE DATA SWITCHES ALLOW THE USER AN ON-LINE INTERACTIVE MODE OF OPERATION WHILE DEVELOPING AND TESTING CONTINUOUS SYSTEM MODELS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTTRAN IV SYSTEM:RBM STORAGE:6800 DOCU PAGES:8
- 890720 SIGMA 2/3 FCT DUMP ROUTINE (ELABORATED)
AUTHOR:C. ROSENFELD, CALTECH
ABSTRACT:
AN ELABORATED VERSION OF THE FCT DUMP ROUTINE. DUMPS BOTH OPLABEL TABLES, ALL I/O CONTROL TABLES, BLOCKING BUFFERS, AND CHANNEL STATUS TABLES.
COMMENTS:
PROGRAM TYPE:ROUTINE LANGUAGE:XSMBOL SYSTEM:RBM STORAGE:518 DOCU.PAGES:1 THIS ROUTINE IS VALID WITH CN705368-C01.
- 890723 SIGMA 2/3 SIGMA PLOTTING LIBRARY
AUTHOR:L. E. HOOPER, XEROX DATA SYSTEMS
ABSTRACT:
THE SIGMA PLOTTING LIBRARY IS MADE UP OF FORTRAN SUBROUTINES WHICH PERFORM FREQUENTLY USED FUNCTIONS. THE FOLLOWING FUNCTIONS ARE PROVIDED: DRAW LINEAR OR LOG AXIS, DRAW ALPHANUMERIC AXIS, PRINT A NUMBER, COMPUTE LINEAR OR LOG SCALE FACTORS, PLOT SCALED DATA, DRAW A CIRCLE, ELLIPSE OR RECTANGLE, DRAW A DASHED OR CENTER LINE, DRAW DRIFTING DIMENSIONS, OPTIMIZE PEN MOVEMENT, DRAW A CALANDER AND DRAW A HISTOGRAM. PLOTTING LIBRARY SUBROUTINES ARE WRITTEN IN BASIC FORTRAN AND WILL WORK ON SIGMA 5/7 IF COMPILED FOR THESE COMPUTERS.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:FORTTRAN IV SYSTEM:RBM DOCU.PAGES:17 THE SUBROUTINES PLOT, WHERE AND SYMBOL ARE REQUIRED BY THE SIGMA PLOTTING LIBRARY. THESE SUBROUTINES ARE AVAILABLE IN CN705780 FOR SIGMA 2/3 AND CN705657 FOR SIGMA 5/7.

- 890725 SIGMA 2/3 ROMLIST
AUTHOR:C.V. CODLING, XEROX DATA SYSTEMS
ABSTRACT:
ROMLIST READS RELOCATABLE OBJECT MODULES FROM THE BI DEVICE AND PROVIDES THE FOLLOWING: LIBRARY MODE - DISPLAY OF LIBRARY FILE STORAGE REQUIREMENTS FOR EACH FILE AS WELL AS TOTALS, THUS ELIMINATING LABORIOUS CALCULATIONS TO LOAD USER LIBRARY. LISTING MODE - DISPLAY OF DEFS, REFS AND PROGRAM IDENTIFICATION FOR EACH ROM AS WELL AS THE DFRF FILE SPACE REQUIRED FOR EACH MODULE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FIV/XSYMBOL SYSTEM:RBM STORAGE:X568 DOCU.PAGES:1
- 890726 SIGMA 2/3 RBM TRACE PROGRAM
AUTHOR:C. V. CODLING, XEROX DATA SYSTEMS
ABSTRACT:
THE RBM TRACE PROGRAM PROVIDES PROGRAMMERS WITH A CONVENIENT MEANS OF DEBUGGING PROGRAMS OR PROGRAM SEGMENTS WHERE THE ERRORS ARE COMPLEX OR SUBTLE. TRACE CAN OPERATE IN BATCH MODE, BEING CALLED AS A SUBROUTINE, OR IN THE ON-LINE MODE. THE SUBROUTINE PRINTS THE INSTRUCTION VALUE, DECODED OP CODE, EFFECTIVE ADDRESS, CONTENTS OF THE EFFECTIVE ADDRESS, REGISTER CONTENTS AND STATUS BITS AFTER EXECUTION OF EACH INSTRUCTION. IT DOES NOT TRACE MONITOR SERVICES, ONLY THE RETURNED STATUS.
COMMENTS:
PROGRAM TYPE:ROUTINE LANGUAGE:XSYMBOL SYSTEM:RBM STORAGE:800 DOCU.PAGES:9
- 890740 SIGMA 2/3 IDEAL FORTRAN
AUTHOR:N. POUSIER, XEROX
ABSTRACT:
36 SUBROUTINES FOR BUSINESS APPLICATIONS. THE ROUTINES INCREASE ARITHMETIC ACCURACY, I/O CHARACTER SET, AND OUTPUT CAPABILITIES WHILE DECREASING STORAGE REQUIREMENTS AND IO AND EXECUTION TIMES. FORTRAN IV IS INTENDED AS THE CALLING PROCESSOR BUT XSYMBOL MAY ALSO BE USED.
COMMENTS:
PROGRAM TYPE:SUBROUTINES LANGUAGE:XSYMBOL SYSTEM: RBM DOCU.PAGES:73 AS DESCRIBED IN ELEMENT NUMBER -11, THE COMMERCIAL SUBROUTINE PACKAGE CONTAINS ROUTINES WHICH MAY BE INCLUDED FOR INCREASED THROUGHPUT.
- 890741 SIGMA 2/3 BLOCKED RANDOM FILE ROUTINES
AUTHOR:H. J. GREEN, XDS
ABSTRACT:
SUBROUTINES FOR FORTRAN IV RANDOM FILE READS AND WRITES. AUTOMATIC BLOCKING OF RECORDS CONSERVES SPACE.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:XSYMBOL SYSTEM:RBM DOCU.PAGES:4
- 890742 SIGMA 2/3-530 PHSORT
AUTHOR:C. CODLING, XEROX CORPORATION
ABSTRACT:
PHSORT IS A PROGRAM (FORTRAN) CALLABLE SORT WHICH WILL SORT ANY NUMBER OF KEYS WITHIN A RECORD. KEYS MAY BE INTEGER, D1 DECIMAL, PACKED DECIMAL (ANY LENGTH), ALPHA-NUMERIC (ANY LENGTH), OR FLOATING POINT - BOTH SINGLE AND DOUBLE PRECISION FOR BOTH SIGMA 3 AND SIGMA 5. THE SORT OPTIMIZES ON THE AVAILABLE BT DISK AREA AND AVAILABLE BACKGROUND CORE. IT UTILIZES A HIGH SPEED SORT/MERGE TECHNIQUE. IT IS A MODIFIED SUCCESSIVE MERGE ALGORITHM ORIGINALLY DEVELOPED BY DONALD L. SHELL. IT COMBINES THE SPEED CHARACTERISTICS OF K-WAY MERGING WITH THE SPACE CHARACTERISTICS OF SIFTING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 890744 SIGMA 2/3 AUTOMATED MEDICAL HISTORY PROGRAM
AUTHOR:N. JOHNSON, XEROX DATA SYSTEMS
ABSTRACT:
THIS SYSTEM FOR THE SIGMA 2/3 CONTAINS A GENERAL-PURPOSE QUESTIONNAIRE DRIVER WITH A SAMPLE AUTOMATED MEDICAL HISTORY QUESTIONNAIRE AND A REPORT GENERATOR. THE SAMPLE QUESTIONNAIRE IS MOST APPLICABLE TO A MEDICAL SCREENING ENVIRONMENT BUT THE BRANCHING-QUESTION TECHNIQUE IS APPLICABLE TO ANY QUESTION- ANSWER SITUATION.
COMMENTS:
PROGRAM TYPE:APPLICATION LANGUAGE:ANS FORTRAN IV SYSTEM:RBM STORAGE:6K DOCU.PAGES:14
- 890748 SIGMA 2/3-530 APT3 (LEVEL 3)
AUTHOR:R. REEVES, XEROX CORPORATION
ABSTRACT:
A NUMERICAL-CONTROL PARTS PROGRAMMING LANGUAGE COMPATIBLE WITH THE LEVEL 3 SUBSET OF THE APT LANGUAGE STANDARDS PUBLISHED BY THE APT LONG RANGE PROGRAM OF IITRI. OPERATION IS BATCH, AND CONTROL TAPES, LISTINGS, ETC., ARE PRODUCED AS DESIRED VIA THE USER'S ON-LINE EQUIPMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS APT LANGUAGE COMPILER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
OPERATES USING 24K OVERLAYS UNDER RBM. SOURCE IS 20K FORTRAN STATEMENTS AND 200 META STATEMENTS.

- 890767 SIGMA 2/3 DISK PACK BOOTSTRAP SIMULATOR
AUTHOR: E. WITT, XEROX
ABSTRACT:
A SINGLE CARD BOOTSTRAP TO RESTORE THE DISK UNIT TO THE HOME POSITION AND BOOT FROM THE DISK PACK. THIS ALLEVIATES THE NEED TO POWER THE UNIT DOWN AND UP AGAIN.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 890814 SIGMA 2/3 LEAST-SQUARES W/ ORTHOGONAL POLYNOMIALS
AUTHOR: C. MCKAY, ROYAL MILITARY COLLEGE OF CANADA
ABSTRACT:
A POLYNOMIAL IS DETERMINED TO FIT A SET OF DATA POINTS ACCORDING TO A WEIGHTED LEAST-SQUARES CRITERION. THE FIT IS PRESENTED BOTH AS A SERIES OF ORTHOGONAL POLYNOMIALS AND AS A TRUNCATED POWER SERIES AND IS CALCULATED FOR ALL DEGREES UP TO A SPECIFIED MAXIMUM. STATISTICS ARE CALCULATED TO ASSIST THE USER IN DECIDING WHICH DEGREE IS MOST SUITABLE FOR HIS PURPOSE AND WHICH COEFFICIENTS ARE SIGNIFICANTLY DIFFERENT FROM ZERO. A COMPARISON OF THE ORIGINAL DATA AND THE FIT IS OPTIONALLY AVAILABLE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. OPERATES UNDER RBM. REQUIRES 1777 WORDS FOR PROGRAM PLUS 6 FORTRAN REAL WORDS PER POINT AND THE HIGHEST DEGREE TO FIT PLUS 1 TIMES 4 FORTRAN REAL WORDS. AS SUPPLIED IT IS SUITABLE FOR 150 POINTS AND A MAXIMUM OF A 20TH DEGREE FIT.
- 890821 SIGMA 2/3 TIME-SHARING PROCESSOR
AUTHOR: R. FANSON & O. MCBRIDE, WHIRLPOOL
ABSTRACT:
A MULTI-ACCESS REMOTE TELETYPE SYSTEM, THE TIME-SHARING PROCESSOR RUNS IN RESIDENT FOREGROUND. IT SCHEDULES PROGRAMS AND HAS ROUTINES FOR TERMINAL I/O AND CONTROL. CORE REQUIREMENTS ARE 1K OF PUBLIC LIBRARY, ABOUT 500 WORDS OF RESIDENT FOREGROUND PLUS CORE FOR THE TERMINAL-SUBMITTED PROGRAMS. FIVE REMOTE TERMINALS ARE SUPPORTED, BUT THIS CAN BE INCREASED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 890824 SIGMA 2/3 AUTODUMP
AUTHOR: P. ALSOP, UNIVERSITY OF UTAH
ABSTRACT:
AUTODUMP IS A PROGRAM DESIGNED TO DUMP THE RESIDENT AND/OR NONRESIDENT PORTIONS OF CORE AUTOMATICALLY AT REBOOT TIME. THE DUMP IS MADE TO THE LINE PRINTER BEFORE ANY OF THE FOREGROUND PARTITIONS ARE RESTORED. DATE SWITCH ZERO IS SET ON TO OBTAIN THE DUMP, IF SWITCH ZERO IS NOT ON, NO DUMP OCCURS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 890825 SIGMA 3 RBM E01 MODIFICATIONS-ASCII TAPE HANDLER
AUTHOR: W. BLAKE-HEDGES, XEROX
ABSTRACT:
RBM (VERSION E01) FOR THE SIGMA 3 HAS BEEN EXPANDED FOR PURPOSES OF PROCESSING ASCII DATA CONTAINED ON 8-TRACK MAGNETIC TAPE OR 8-LEVEL PAPER TAPE. BOTH DEVICE TYPES ARE STILL CAPABLE OF PROCESSING BINARY OR EBCDIC DATA.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 890827 SIGMA 2/3 CONTOUR MAP PLOTTING SYSTEM
AUTHOR: MINCOMP CORPORATION
ABSTRACT:
CMPS IS A COMPLETE APPLICATIONS PACKAGE FOR THE GENERATION, STORAGE, MODIFICATIONS AND RETRIEVAL OF CONTOUR MAPS. SYSTEM CAN ALSO DO AREA AND VOLUME CALCULATIONS AND CAN GENERATE SURFACE FIT EQUATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. SYSTEM IS AVAILABLE IN ROM FORM ONLY. SYSTEM REQUIRES 24K RBM SYSTEM WITH 7246 DISK STORAGE. SYSTEM USES SYMBIONT OUTPUT.
- 890879 SIGMA 2/3-530 BUFFERIN/BUFFEROUT
AUTHOR: C. CODLING, XEROX CORPORATION
ABSTRACT:
THESE LIBRARY ROUTINES PROVIDE THE FACILITY TO PERFORM ASYNCHRONOUS I/O ON ANY ARBITRARY FORMAT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY ROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. EOFSET IS INCLUDED TO ALLOW THE USE ENTRY OR CONTROL AT END-OF-FILE TIME. AN ENTRY, ICHECK, IS ALSO INCLUDED TO ALLOW USERS TO CHECK STATUS ON ANY DEVICE IN A NO-WAIT MODE.

890897 SIGMA 3 DECIPHER SUBROUTINE

AUTHOR:T. HOLLADAY

ABSTRACT:

THIS SUBROUTINE ALLOWS A USER TO ENTER OPTIONS ON THE CONTROL CARD; THE PROGRAM SORTS AND RETURNS THESE OPTIONS TO THE MAIN PROGRAM ENCODED IN A USER-SUPPLIED ARRAY. THESE OPTIONS RETURNED TO THE CALLING PROGRAM MAY THEN BE USED TO CONTROL THE MAIN PROGRAM.

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

THE SUBROUTINE IS A FORTRAN PROGRAM WHICH USES IN-LINE ASSEMBLY CODES TO RETURN OPTIONS FROM THE CONTROL CARD IMAGE. THE CONTROL CARD IMAGE IS READ FROM THE ADDRESS IN K:CCBUFF GIVEN IN THE MONITOR CONSTANT TABLE (I.E. X'F7') AND THE OPTIONS ARE RETURNED IN A USER-SUPPLIED ARRAY THAT IS 80 WORDS LONG. THE SUBROUTINE MUST BE CALLED BEFORE ANY CALLS TO BLOCKED FILES, OR RBM WILL DESTROY THE CONTROL CARD IMAGE.

890902 SIGMA 3 BOOLEAN SUBROUTINES

AUTHOR:T. HOLLADAY

ABSTRACT:

THE SEVEN BOOLEAN OPERATIONS ARE IMPLEMENTED BY FORTRAN PROGRAMS WHICH USE IN-LINE ASSEMBLY CODES TO PERFORM BIT MANIPULATION ON THE 16-BIT WORDS. THE OPERATIONS ARE INTEGER FUNCTIONS, WHICH CAN BE COMPOUNDED.

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE SEVEN BOOLEAN OPERATIONS ARE IDENTICAL TO THE SIGMA 7 BOOLEAN OPERATIONS (SEE THE FORTRAN IV MANUAL, 900956C, UNDER BOOLEAN) EXCEPT THE WORDS ARE 16-BITS INSTEAD OF 32-BITS, AND SOME OF THE SIGMA 7 BOOLEAN OPERATIONS ARE ALLOWED WITH MORE THAN ONE ARGUMENT. THESE SUBROUTINES ARE EXCEEDINGLY USEFUL IN DOING GRAPHICS AND OTHER OPERATIONS WHERE BIT MANIPULATIONS ARE REQUIRED.

890903 SIGMA 3 XGP-OUT

AUTHOR:T. HOLLADAY

ABSTRACT:

THIS PROGRAM ALLOWS THE XEROX GRAPHICS PRINTER (XGP) TO BE USED AS A LINE PRINTER UNDER CONTROL OF RBM. THE PROGRAM READS EBCDIC DATA A LINE AT A TIME AND FORMATS ON-THE-FLY TO THE XGP. OPTIONS INSERTED ON THE CONTROL CARD CAN SELECT FOUR MODES OF OPERATION PLUS AN OUTPUTTING MODE TO ONE OF TWO XGP'S RUNNING AT DIFFERENT RATES (I.E., 192 OR 128 BITS PER INCH). THE SOFTWARE CHANGEABLE FONT HAS A SET OF 256 CHARACTERS.

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.

THE PROGRAM IS 806 WORDS BUT REQUIRES 2 BUFFERS AND SPACE FOR THE FONT; FOR THE LOW-DENSITY XGP, THE FONT IS 2048 WORDS, AND THE 2 BUFFERS TOGETHER REQUIRE 2048 WORDS. FOR THE HIGH-DENSITY XGP, THE CORRESPONDING NUMBERS ARE 8192 AND 8144 WORDS RESPECTIVELY. THE PROGRAM ASSUMES THAT OPLABELS TO THE XGP'S ARE INCLUDED AT SYSGEN AND THAT THE XGP'S ARE DECLARED AS XX DEVICES.

890911 SIGMA 3-530 STATISTICAL SYSTEM - STATSYS

AUTHOR:W. GUSTAFSON

ABSTRACT:

THE STATISTICAL SYSTEM (STATSYS) IS A PROCESSOR WHICH CONTAINS FOUR MAJOR PROGRAMS. THESE PROGRAMS PERFORM STEPWISE LINEAR REGRESSION, FACTOR ANALYSIS, ANALYSIS OF VARIANCE, AND POLYNOMIAL FITTING WITH ORTHOGONAL POLYNOMIALS.

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

THE SOURCE CODE IS WRITTEN ENTIRELY IN XEROX ANS FORTRAN IV AND OPERATES AS A BACKGROUND PROCESSOR UNDER RBM-E02. THE PROCESSOR REQUIRES APPROX. 15K WORDS OF MEMORY. INPUT IS NORMALLY PROVIDED VIA A CARD READER AND OUTPUT TO A LINE PRINTER. INTERMEDIATE DATA STORAGE IS NORMALLY IN A BACKGROUND TEMPORARY FILE ON A 724X-TYPE DISK FILE, BUT IT MAY BE GENERATED TO A CARD RECORD OUTPUT DEVICE. THE MAXIMUM NUMBER OF BYTES OF DISK STORAGE NEEDED FOR ANY ONE ANALYSIS IS 65K.

890926 XEROX 530 DEMAND PAGER

AUTHOR:V. HUBER, XEROX CORPORATION

ABSTRACT:

THE XEROX 530 DEMAND PAGER PROVIDES A RELATIVELY EASY METHOD FOR FORTRAN PROGRAMMERS TO MANIPULATE DATA ARRAYS WHOSE STORAGE REQUIREMENTS FAR EXCEED PHYSICAL AND EVEN ADDRESSABLE MEMORY. THE ONLY MAJOR REPROGRAMMING REQUIRED IS RECODE STORES INTO PAGED ARRAYS. THE PAGER, ALTHOUGH SPECIFICALLY DESIGNED FOR FORTRAN PROGRAMS, IS APPLICABLE TO ANY BACKGROUND BATCH PROGRAM UTILIZING FORTRAN FUNCTION CALLING CONVENTIONS. FIELD AND FLOATING POINT HARDWARE IS REQUIRED, ALTHOUGH PROGRAMMERS MAY BE ABLE TO ELIMINATE THESE REQUIREMENTS WITH SOME RECODING.

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN EXTENDED SYMBOL.

890927 SIGMA 3-530 LSDMF - FORTRAN CALLABLE SORT

AUTHOR:R. ZIEGLER, XEROX CORPORATION

ABSTRACT:

LSDMF CONSISTS OF A SET OF PROGRAM ROUTINES AND MODIFICATIONS TO THE STANDARD 530 SORT THAT PROVIDE THE ABILITY TO CALL THE SORT FROM ANOTHER PROGRAM IN THE SAME MANNER USED TO CALL THE 1130 LSDMF SORT. FILES TO BE SORTED MAY BE RANDOM OR PACKED RANDOM. EITHER PORTIONS OF OR ALL RECORDS IN A FILE MAY BE SELECTED FOR SORTING IN PLACE.

COMMENTS:

890927 CONTINUED ON FOLLOWING PAGE

- 890927 LSDMF - FORTRAN CALLABLE SORT (CONTINUED)
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN EXTENDED SYMBOL. SPECIAL SYSGEN CONSIDERATIONS, LOADING AND OPERATING PROCEDURE, ARE DETAILED IN THE PROGRAM DOCUMENTATION. MODIFICATIONS TO THE SORT APPLY TO THE B00 RELEASE.
- 890981 SIGMA 3 XGP - VAR
AUTHOR: T. HOLLADAY, XEROX WEBSTER
ABSTRACT:
THIS PROGRAM ALLOWS THE XEROX GRAPHICS PRINTER (XGP) TO BE USED AS A VARIABLE WIDTH CHARACTER LINE PRINTER UNDER CONTROL OF RBM. THE PROGRAM READS EBCDIC DATA A LINE AT A TIME AND FORMATS ON-THE-FLY TO THE XGP. OPTIONS INSERTED ON THE CONTROL CARD CAN SELECT FOUR MODES OF OPERATION PLUS AN OUTPUTTING MODE TO ONE OF TWO XGP'S RUNNING AT DIFFERENT RATES (192 OR 128 BITS PER INCH). THE SOFTWARE CHANGEABLE FONT HAS A 256 CHARACTER SET OF VARIOUS WIDTH CHARACTERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. THE PROGRAM IS ONLY 725 WORDS BUT REQUIRES 2 BUFFERS AND SPACE FOR THE FONT; EACH FONT CONTAINS A CONTROL SECTION OF 540 WORDS, WHICH DESCRIBE THE FONT, AND THE REMAINING FONT RECORDS CONTAIN THE ACTUAL FONT BROKEN INTO 5760 BYTE BLOCK SIZES. THE PROGRAM ACCEPTS ANY WIDTH CHARACTERS UP TO MAXIMUM DETERMINED BY THE XGP AND ANY HEIGHT BUFFER AS LONG AS THE PROGRAM, FONT, AND BUFFERS WILL FIT IN CORE. THE PROGRAMS ASSUME THAT OPLABELS TO THE XGPS WERE INCLUDED AT SYSGEN AND THAT THE XGPS WERE DECLARED AS XX DEVICES. THE BASIC CONTROL FUNCTIONS OF THE PROGRAM ARE SIMILAR TO XGP-OUT.

- 704001 SIGMA 2/3-530 GRAPH PLOTTER TEST
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM WILL TEST THE OPERATIONAL CAPABILITY OF GRAPH PLOTTERS 7530/7531/7532/7533. IT RUNS UNDER EXECUTIVE CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM (DCP).
COMMENTS:
REQUIRED CONFIGURATION IS: SIGMA 2 OR 3 WITH MINIMUM OF 8K MEMORY, KSR KEYBOARD PRINTER, CARD READER AND ANY GRAPH PLOTTER MODEL 7530/7531/7532/7533. OPTIONAL EQUIPMENT IS A LINE PRINTER. PROGRAM IS SUPPLIED TOGETHER WITH A RELOCATABLE LOADER NO. 705299 (MANUAL 901558) AND A DCP PROGRAM NO. 704025 (MANUAL 900839). BASIC CORE NEEDED IS 3.8K. PREREQUISITE FOR OPERATING THE PROGRAM IS THE OBJECT GRAPH PLOTTER DESIGN MUST BE PROGRAM COMPATIBLE WITH DESIGN SPEC DRAWING NUMBER 137769. THIS PROGRAM MAY ALSO BE USED TO TEST THE CALCOMP PLOTTER.
- 704014 SIGMA 2/3-530 CHARACTER ORIENTED COMMUNICATION TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE USER WITH A PROGRAM FOR TESTING CHARACTER ORIENTED COMMUNICATION EQUIPMENT. THE PROGRAM WILL HANDLE ONE COMMUNICATION CONTROLLER AND UP TO 64 CHANNELS UNDER INTERRUPT CONTROL FOR TURNING THE CORNER AT THE CONTROLLER END. CAPABILITY FOR DRIVING DEVICES THROUGH THIS PROGRAM WILL BE PROVIDED ALSO. THE PROGRAM WILL OPERATE IN CONJUNCTION WITH THE (DCP) DIAGNOSTIC CONTROL PROGRAM FOR ERROR DISPLAY AND INPUT PARAMETERS VIA TYPEWRITER KEYBOARD.
COMMENTS:
CONFIGURATION REQUIRED: SIGMA 2, 8K MEMORY, KSR. DIRECT I/O INPUT: PAPER TAPE OR CARDS. OUTPUT: KEYBOARD OR LINE PRINTER CHARACTER ORIENTED COMMUNICATION EQUIPMENT TEST FIXTURES OR DEVICES.
- 704024 SIGMA 2/3-530 PAPER TAPE READER-PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
THE PAPER TAPE READER-PUNCH TEST PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP) C.N. 704025 TO PROVIDE A COMPREHENSIVE FREESTANDING PROGRAM TO TEST THE OPERATIONAL CAPABILITY OF THE PAPER TAPE READER-PUNCH (MODEL 7060) OR ASR (MODEL 7020). THE READER SECTION IS DESIGNED TO READ ANY PUNCH CONFIGURATION GENERATED BY THE PUNCH SECTION. A COMPARE SECTION IS PROVIDED TO VALIDATE ANY PUNCH CONFIGURATION READ BY THE READ SECTION. A STANDARD TEST TAPE IS PROVIDED FOR SIGMA 2 SYSTEMS WITHOUT PUNCHES. ADDITIONAL SECTIONS ARE PROVIDED TO CONTROL AND INTERROGATE FUNCTIONS PERFORMED BY PAPER TAPE READER OR PUNCH.
COMMENTS:
THE REQUIRED SYSTEM CONFIGURATION CONSISTS OF THE FOLLOWING: 1. SIGMA 2 COMPUTER WITH 4K OF MEMORY OR GREATER 2. CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE 3. KEYBOARD/PRINTER AS PROGRAM CONTROL AND DISPLAY DEVICE 4. PAPER TAPE READER OR PAPER TAPE PUNCH AS TEST DEVICE.
- 704055 SIGMA 2/3-530 DATA SET CONTROLLER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE DATA SET CONTROLLER IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM. THIS PROGRAM PROVIDES A MEANS OF CHECKING ASYNCHRONOUS AND SYNCHRONOUS TURNAROUND ON A MESSAGE BASIS AND ECHO OPERATION ON A FIXED LENGTH MESSAGE BASIS WITH ASYNCHRONOUS AND SYNCHRONOUS FORMAT UNITS.
COMMENTS:
REQUIRED CONFIGURATION SIGMA 2 WITH 8K OF MEMORY, CONSOLE TYPEWRITER, INPUT DEVICE FOR LOADING PROGRAM, COUNTER 4 REAL TIME CLOCK (2 MILLISECONDS), AND ONE OR MORE DATA SET CONTROLLERS.
- 704156 SIGMA 2/3-530 AUTO DIAL EQUIPMENT PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 2 DCP AND PROVIDES A MEANS OF TESTING AND EXERCISING XDS MODEL 7618 AUTOMATIC DIALING EQUIPMENT AND OPTIONAL MODEL 7819 ADDITIONAL DIALING POSITION(S). DIRECTIVES ARE IMPLEMENTED WHICH PERMIT: (U) DEFINING THE TESTING ENVIRONMENT (I) EXECUTING I/O INSTRUCTIONS WITH TRANSFERENCE CAPABILITY AND DISPLAYING RETURNED STATUS; (O) EXECUTING THE VARIOUS FUNCTIONS RELATED TO THE CHARACTER ORIENTED COMMUNICATIONS EQUIPMENT; AND (J) DIALING AND REPORTING THE TIMES OF STATUS CHANGES OF THE AUTOMATIC DIALING EQUIPMENT AND OPTIONALLY ASSOCIATED DIALED LINES.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 2 WITH 8K OF MEMORY; KEYBOARD PRINTER; PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM; AND COUNTER 1 REAL TIME CLOCK (2MSEC). ALSO ONE OR MORE OF THE FOLLOWING IS REQUIRED: JT20 COMMUNICATIONS DIAGNOSTIC UNIT; JT14 PERIPHERAL EQUIPMENT TESTER (PET); OR BELL SERIES 801 AUTOMATIC CALLING UNIT; OR EQUIVALENT CONNECTED TO THE AUTOMATIC DIALING EQUIPMENT.
- 704210 SIGMA 2/3-530 7930/7931/7935 SIU DIGITAL DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC CHECKS THE OPERATION OF THE 7930/7931/7935 SYSTEM INTERFACE UNITS AND THEIR ASSOCIATED INPUT/OUTPUT MODULES. THE 7928 AND 7929 SYSTEM INTERFACE UNITS MAY ALSO BE EXERCISED BY THIS DIAGNOSTIC. BECAUSE OF CORE RESTRICTIONS, THE ACTUAL DIAGNOSTIC PROGRAM IS DIVIDED INTO SEGMENTS. SEGMENT 1 TESTS THE 7950-7964 I/O MODULES AND SEGMENT 2 TESTS THE 7942 - 7944 I/O MODULES. ONLY ONE SEGMENT MAY BE RESIDENT AT A GIVEN TIME. THE DIAGNOSTIC, AS SUPPLIED IN ABSOLUTE FORM, INCLUDES THE DIAGNOSTIC PROGRAM MONITOR (DPM) AND DIAGNOSTIC PROGRAM LOADER (DPL).
COMMENTS:
HARDWARE CONFIGURATION: 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID COMBINATION OF 7928'S, 7929'S, 7930'S, 7931'S AND 7935'S, THE APPROPRIATE ASSOCIATED I/O MODULES AND 2T46 TEST CABLES (FOR CLOSED LOOP TESTS). A LINE PRINTER IS OPTIONAL.

- 704213 SIGMA 2 7922 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7922 SYSTEM INTERFACE UNIT AND ITS ASSOCIATED I/O MODULES AND EQUIPMENT. THESE INCLUDE 7950 AND 7954 STORED OUTPUT MODULES 7952 AND 7953 PULSED OUTPUT MODULES, AD30-12 AND AD35SH AN ANALOG-TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA38-15 XDS D/A CHANNEL CONTROLLERS, AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS.
COMMENTS:
REQUIRES 8K, TYPEWRITER, PAPER TAPE OR CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS SELF-LOADING. THE 7922 MAY BE CONNECTED TO THE DIO OR TO A 7929 IOP-DIO ADAPTER.
- 704235 SIGMA 2/3 7910/14/15 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX, DATA SYSTEMS DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE 7910/7914/7915 SYSTEM INTERFACE UNITS AND ASSOCIATED I/O MODULES.
COMMENTS:
REQUIRES 8K, TYPEWRITER, PAPER TAPE OR CARD READER IN ADDITION TO THE ANALOG EQUIPMENT. THE ABSOLUTE BINARY DECK OR PAPER TAPE INCLUDES THE LOADER.
- 704449 SIGMA 2 8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THE 8050 EXTERNAL MEMORY ADAPTER DIAGNOSTIC IS TO VERIFY THE FUNCTIONS OF THE SIGMA 2 EXTERNAL MEMORY ADAPTER AND ASSOCIATED SIGMA 7 MEMORY (8451/8452). THE PROGRAM HAS THE CAPABILITY OF TESTING LOGIC FEATURES OF THE ADAPTER INCLUDING MAPPING, AND SIGMA 7 MEMORY MAGNETICS.
- 705266 SIGMA 2/3-530 PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE PERIPHERAL SWITCHING EQUIPMENT (PSE), MODEL 7710, MODEL 7720 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES FOR PORT SELECTION, PORT STATUS SENSING AND HIGH SPEED EXERCISING OF PORT SWITCHING LOGIC. IT ALSO PROVIDES AUTOMATIC DIRECTIVES FOR THE VERIFICATION AND TEST OF PORT SWITCHING LOGIC, THE WRITE DIRECT DATA/ADDRESS LINES AND THE 8 BIT DATA PATH INTERFACE LINES. INCORPORATED INTO THESE AUTOMATIC DIRECTIVES ARE ERROR REPORTING, LOOP ON ERROR AND PLACE MARK BRANCHING ON ERROR.
COMMENTS:
REQUIRED CONFIGURATION. A SIGMA 2 COMPUTER WITH 8K OF MEMORY, EXTENDED DIO DATA BUSS, A KEYBOARD/PRINTER, A XDS JX58 TESTER AND A CARD OR PAPER TAPE READER. A MODEL 7710 DIO BUSS SHARING ADAPTER OR A MODEL 7720 MULTI-CONTROLLER PERIPHERAL SWITCH IS REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL.
- 705297 SIGMA 2/3-530 CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE CHANNEL INTERFACE UNIT (CIU), MODEL 7650 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). THE CIU DIAGNOSTIC PROGRAM ALLOWS THE USER TO; ISSUE INDIVIDUAL I/O INSTRUCTIONS, TRANSFER A SPECIFIC NUMBER OF DATA BYTES, DISPLAY A RECEIVED BYTE PATTERN, TEST AUTOMATICALLY A CIU OR PAIR OF CIU'S ON A SINGLE SIGMA SYSTEM AND TEST AUTOMATICALLY THE TRANSFER OF STATUS AND DATA BETWEEN CIU CONNECTED SIGMA SYSTEMS. INDIVIDUAL I/O ISSUING DIRECTIVES WILL, UPON COMPLETION, REPORT DEVICE STATUS AND THEN TAKE A PLACEMARK BRANCH IF ANY BIT COMPARES WITH A BIT IN A COMPARE STATUS BYTE PARAMETER. AUTOMATIC DIRECTIVES WILL HALT EXECUTION, UPON DETECTION OF AN ERROR, THE ERROR WILL BE REPORTED AND A PLACEMARK BRANCH WILL BE TAKEN.
COMMENTS:
CONFIGURATION: AT LEAST ONE SIGMA 2 COMPUTER WITH 4K OF MEMORY AND A COUNTER 1 REAL TIME CLOCK (2 MILLISECONDS), A CARD READER OR 8 LEVEL PAPER TAPE READER, A KEYBOARD/PRINTER AND ONE OR MORE MODEL 7650 CHANNEL INTERFACE UNITS ARE REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL.
- 705392 SIGMA 2 MODIFIED 7910/14/22 ANALOG DIA. PROG.
AUTHOR: XEROX
ABSTRACT:
ADDITIONS TO THE STANDARD RELEASED SIU DIAGNOSTIC PROGRAM SAVES INFORMATION OBTAINED DURING BOTH SINGLE CHANNEL INPUT TESTS (SCI) AND SUMMARY INPUT TESTS (SIT) BY RECORDING ON MAGNETIC TAPE THE PERTINENT INFORMATION PRINTED OUT ON EITHER THE LINE PRINTER OR KEYBOARD PRINTER. THIS PROGRAM IS A MODIFICATION OF CATALOG NUMBER 704235
COMMENTS:
SOURCE LANGUAGE: SYMBOL, CONFIGURATION: XDS SIGMA 2, 16K OF CORE ONE MAG. TAPE, KEYBOARD PRINTER, CARD READER, (OPTIONAL-LINE PRINTER).
- 705398 SIGMA 2/3 7923/28/29 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 2 7923/29 SYSTEM INTERFACE UNITS DIAGNOSTIC PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE S.I.U.'S AND THEIR ASSOCIATED I/O MODULES AND EQUIPMENT.

- 705533 SIGMA 3-530 REMOVABLE DISC STORAGE TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE REMOVABLE DISC STORAGE CONTROLLER (MODEL 7240), DUAL SPINDLE DISC DRIVE (MODEL 7242) AND DUAL CHANNEL OPTION (MODEL 7241). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS (SURFACE TEST, HEADER WRITE/READ, COMPATIBILITY TEST) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 2/3 CPU WITH 12K OF MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT.
- 705652 SIGMA 2/3-530 XEROX KEYBOARD PRINTER (ASR/KSR)(16-BIT)
AUTHOR: XEROX
ABSTRACT:
THE TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND ISOLATE THE FAILURE TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE KEYBOARD/PRINTER WITH PAPER TAPE READER/PUNCH (MODEL 7020-2) AND THE KEYBOARD/PRINTER (MODEL 7012-2). THE RANDOM EXERCISER AND SOME UTILITY FUNCTIONS (CHARACTER SPACING ADJUSTMENT, PAPER TAPE PUNCH/READ/VERIFY) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM INTERFACES WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
THIS PROGRAM WILL RUN UNDER FREESTANDING OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SIGMA 2/3 CPU WITH 8K OF MEMORY; PROGRAM INPUT DEVICE (CARD READER, PAPER TAPE READER, MAGNETIC TAPE); OPTIONAL MESSAGE OUTPUT DEVICE (LINE PRINTER, ASK, KSR).
- 705681 SIGMA 2/3 DIAGNOSTIC PROGRAM MONITOR (DPM)
AUTHOR: XEROX
ABSTRACT:
A MONITOR PROGRAM WHICH WILL INTERFACE AND CONTROL ALL SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES BASIC UTILITY FEATURES THROUGH THE USE OF DIRECTIVES. THE DPM MUST BE USED IN CONJUNCTION WITH THE SIGMA 2/3 DIAGNOSTIC LOADER - 705299.
COMMENTS:
REQUIRES A MINIMUM OF 16K OF MEMORY, A KSR AND AN INPUT SOURCE SUCH AS CARD READER OR PAPER TAPE READER.
- 705693 SIGMA 2/3 DIAQ.PROG.MAG.TAPE LIBRARY CONTROL PROG.
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LOAD DIAGNOSTIC PROGRAMS FROM A 9-TRACK MAG. TAPE BY TYPING THE ASSIGNED PROGRAM NAMES. IT CAN ADD, DELETE OR REPLACE PROGRAMS FROM THE TAPE. IT WILL ALSO FUNCTION ON A 7-TRACK MAG. TAPE WITH A PACKING OPTION.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 2 OR 3 WITH AT LEAST 16K OF MEMORY, A KSR/ASR, AT LEAST ONE MAG. TAPE UNIT TO LOAD PROGRAMS AND AT LEAST TWO MAG. TAPE UNITS TO UPDATE THE MAG. TAPE LIBRARY AND A CARD READER. A LINE PRINTER IS OPTIONAL.
- 705694 SIGMA 2/3 DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
AUTHOR: XEROX
ABSTRACT:
TWO DIAGNOSTIC TAPE LIBRARIES ARE AVAILABLE: A BINARY (-86) AND A COMPRESSED (-46). THE BINARY TAPE CONTAINS SIGMA 2/3 DIAGNOSTIC PROGRAMS WHICH ARE CURRENTLY SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION AND SYSTEMS. THE COMPRESSED TAPE CONTAINS THE COMPRESSED SOURCE LINES FOR ALL PROGRAMS ON THE BINARY TAPE WHICH ARE SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION. THE COMPRESSED LIBRARY TAPE (-46) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE PROGRAM DESCRIPTION 705694-11 FOR LOADING AND USE INSTRUCTIONS.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 2 OR 3 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, 1 KEYBOARD PRINTER.
- 705863 SIGMA 2/3-530 COMPREHENSIVE RAD TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURE TO A FUNCTION IN THE FOLLOWING RAD CONTROLLERS AND STORAGE UNITS: CONTR: 7201, 7201-3, 7231, 7231-3 STORAGE UNITS: 7202, 7203, 7204, 7232 ANY EXERCISER IS INCLUDED WHICH OPERATES THE RAD STORAGE SYSTEM IN A PSEUDO-RANDOM FASHION. THIS TEST IS USEFUL IN THE DETECTION OF INTERACTION AND INTERMITTENT FAILURES. A UTILITY TEST PROVIDES THE CAPABILITY OF EXTENSIVE SURFACE TESTING AND OF CHANGING THE SCOPE OF TESTING THRU OPTIONAL PARAMETERS AND DIRECTIVES. THIS TEST PROGRAM IS INTERFACED WITH AND OPERATES UNDER THE CONTROL OF THE DIAGNOSTIC PROGRAM MONITOR (DPM).
COMMENTS:
PROGRAM MONITOR (DPM). SIGMA 2/3 CPU WITH 16K OF MEMORY. PROGRAM INPUT DEVICE: CR, PT, 7T. CONTROL INPUT: KSR. MESSAGE OUTPUT: KSR, LP. DEVICES TO BE TESTED: MODEL 7201(7201-3)/7202/7203/7204, MODEL 7231(7231-3)/7232
- 705866 SIGMA 2/3-530 9 CHANNEL MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 9 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7321/7320) AND STATION

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- 705866 9 CHANNEL MAGNETIC TAPE TEST (CONTINUED)
(MODEL 7322/7323). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 2/3 CPU WITH 16K OF MEMORY, PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; 9 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.
- 705877 SIGMA 2/3-530 7 CHANNEL MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 7 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7361/7365/7371/7374) AND STATION (MODEL 7362/7372). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 2/3 WITH 16K OF MEMORY PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER, 7 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.
- 705885 SIGMA 2/3 ADS-10 SIU DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE ADS-10 SYSTEM INTERFACE UNIT.
COMMENTS:
REQUIRED HARDWARE: 8K OF MEMORY, KEYBOARD/PRINTER, PAPER TAPE READER OR CARD READER, ADS-10 ANALOG INPUT CONTROLLER, MD41 MULTIPLEXER-DIGITIZER OR CD51 CONTROLLER-DIGITIZER AND 1-8 DM40 DIFFERENTIAL MULTIPLEXERS. OPTIONAL HARDWARE: 7969 FREQUENCY CONTROL SUBSYSTEM. TEST EQUIPMENT: A PRECISION VOLTAGE SOURCE
- 705892 SIGMA 2/3 7915/ADS-10 SIU DIAGNOSTIC
AUTHOR: XDS DATA SYSTEMS DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7915/ADS-10 ANALOG INPUT CONTROLLER AND ITS ASSOCIATED I/O MODULES.
COMMENTS:
REQUIRED HARDWARE: SIGMA 2/3(8K MINIMUM), CARD READER OR PAPER TAPE READER, TELETYPE, 7915/ADS-10 ANALOG INPUT CONTROLLER AND ITS ASSOCIATED I/O MODULES. OPTIONAL HARDWARE: LINE PRINTER, MAGNETIC TAPE UNIT, 7969 FREQUENCY CONTROL SUBSYSTEM.
- 706110 SIGMA 2/3-530 XEROX DISPLAY STATION DIAGNOSTIC PROGRAM
AUTHOR: WESTERN TECHNOLOGY CENTER, XEROX CORPORATION
ABSTRACT:
THE PURPOSE OF THE DIAGNOSTIC IS: (1) TO PROVIDE A MEANS FOR IN HOUSE CHECKOUT OF NEW DISPLAY STATIONS, (2) TO PROVIDE A BASIS FOR QUALITY ACCEPTANCE OF DISPLAY STATIONS, (3) TO PROVIDE A DIAGNOSTIC CAPABILITY FOR SYSTEMS IN THE FIELD TO DIAGNOSE A REMOTELY LOCATED AND UNATTENDED TERMINAL.
COMMENTS:
CONFIGURATION REQUIRED: SIGMA 2/3 COMPUTER, OPERATOR TYPEWRITER, CARD READER, COUNTER 1 REAL-TIME CLOCK, 7611 CHARACTER-ORIENTED COMMUNICATIONS CONTROLLER OR CC32 PROCEDURE-ORIENTED COMMUNICATIONS CONTROLLER, 16K CORE MEMORY, XEROX DISPLAY STATION CONTROLLER, DISPLAY STATION AND KEYBOARD.
- 706168 SIGMA 2/3-530 COMPREHENSIVE LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 7440/7445, 7441, 7448 OR 7450). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 2/3 CPU WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.
- 706170 SIGMA 2/3-530 COMPREHENSIVE CARD EQUIPMENT TEST
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN ALL STANDARD CARD PUNCH AND READER EQUIPMENT (MODELS 7160-1, 7160-2, 7165 AND MODELS 7120, 7121, 7122, 7140 RESPECTIVELY). A RANDOM EXERCISER AND SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO RESPECTIVELY DETECT INTERMITTENT CONTROLLER AND/OR MECHANISM FAILURES, AND AID THE OPERATOR IN MECHANISM ADJUSTMENTS. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 2/3 CPU WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; CARD PUNCH AND/OR READER TO BE TESTED.
- 706202 SIGMA 2/3-530 CC-32/33 DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION, DATA SYSTEMS DIVISION
ABSTRACT:
TESTS AND EXERCISES THE MODEL CC-32 PROCEDURE ORIENTED COMMUNICATIONS CONTROLLER. DEVICE MAY BE OPERATED

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- 706202 CC-32/33 DIAGNOSTIC PROGRAM (CONTINUED)
IN ASYNCHRONOUS OR SYNCHRONOUS MODE, WITH NORMAL OR TRANSPARENT TEXT TRANSMISSION.
COMMENTS:
THIS PROGRAM IS AN EXTENSION OF THE MODEL 7601 DATA SET CONTROLLER DIAGNOSTIC. THE PROGRAM DESCRIPTION FOR THE CC-32 DIAGNOSTIC SHOULD BE READ IN CONJUNCTION WITH THE 7601 DIAGNOSTIC PROGRAM MANUAL(901510). 8K MIN OF CORE MEMORY REQUIRED
- 706262 SIGMA 3 7580 GRAPHIC DISPLAY DIAGNOSTIC
AUTHOR:XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION TOOL FOR THE 7580 GRAPHIC DISPLAY SUB-SYSTEM.
COMMENTS:
REQUIRES HARDWARE: 8K OF SIGMA 3 MEMORY, 4K OF SIGMA 5-9 MEMORY, AN 8150 SIGMA 5-9 MEMORY ADAPTER, AN 8170 DIRECT I/O INTERFACE FEATURE, 2 EXTERNAL INTERRUPTS, A KEYBOARD/PRINTER AND A CARD READER, PAPER TAPE READER OR MAGNETIC TAPE UNIT.
- 706417 SIGMA 2/3-530 9-CHANNEL POTTER MAGNETIC TAPE TEST
AUTHOR:XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS A MODIFIED-FOR-POTTER-UNITS-ONLY VERSION OF THE STANDARD SIGMA 2/3 9-TRK MAGNETIC TAPE TEST (#705866-A04).
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 2/3 WITH 16K MIN.MEM; MAGN.TAPE POTTER UNITS 75,120, OR 150 IPS; CR, PTR, OR MTU FOR PROGRAM INPUT; KEYBOARD PRINTER OR LINE PRINTER FOR MESSAGE OUTPUT. REFER TO ALL STD SIGMA 2/3 9-TRK MAG-TAPE TEST REFERENCE MATERIALS. POTTER-MODIFIED VERSION REFLECTED BY *800,COLS 69-72 IN LISTING.
- 706477 SIGMA 2/3-530 EXERCISER CONTROL PROGRAM
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE EXERCISER CONTROL PROGRAM CONTROLS THE LOADING AND EXECUTION OF SELECTED PERIPHERAL EXERCISERS. SINCE THE EXERCISERS ARE ASSEMBLED SEPARATELY FROM THE CONTROL PROGRAM, INTER-PROGRAM COMMUNICATION IS ESTABLISHED BY WAY OF INTERFACE TABLES. IT ALSO INITIATES THE EXERCISER AND CONTROLS THE EXECUTION OF THE EXERCISER'S TESTS AND TERMINATES THE EXERCISER WHEN ITS LAST TEST HAS COMPLETED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS IS ONLY THE CONTROL PROGRAM FOR THE ON-LINE EXERCISER SYSTEM. THE PERIPHERAL EXERCISERS ARE NOT INCLUDED UNDER THIS PROGRAM CATALOG NUMBER.
- 706478 SIGMA 2/3-530 CARD READER/CARD PUNCH EXERCISER
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS PROGRAM WILL READ OR PUNCH A PREDEFINED AND PSEUDO RANDOM CARD DECKS FROM THE CARD READER OR CARD PUNCH. THIS EXERCISER HAS FIVE TESTS IN TOTAL (3 STANDARD AND 2 USER DEFINED). THE CARD READER TESTS UTILIZE THE CARD DECKS PUNCHED OUT BY THE CARD PUNCH TESTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS METASYMBOL. PROGRAM TYPE IS DIAGNOSTIC.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 706477). IT WILL NOT RUN ALONE UNDER RBM.
- 706479 SIGMA 2/3-530 LINE PRINTER EXERCISER
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE LINE PRINTER EXERCISER WILL PRINT A VARIETY OF PATTERNS ON THE LINE PRINTER FOR CHECKING VARIOUS PRINTING MALFUNCTIONS AS WELL AS CHECKING THE VERTICAL FORMAT CONTROL. THIS EXERCISER HAS NINE TEST IN TOTAL (8 STANDARD AND 1 USER DEFINED).
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 706477). IT WILL NOT RUN ALONE UNDER RBM.
- 706480 SIGMA 2/3-530 MAGNETIC TAPE EXERCISER
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE MAGNETIC TAPE EXERCISER WILL READ AND WRITE TO EITHER 7 OR 9 TRACK MAGNETIC TAPE. IT ALSO VERIFIES WHETHER THE TAPE CAN BE MOVED OFF OF LOAD POINT AND WHETHER THE BASIC POSITIONING OF THE DRIVE CAN BE ACCOMPLISHED. THIS EXERCISER HAS SIX TESTS IN TOTAL (5 STANDARD AND 1 USER DEFINED). ONE OF THE STANDARD TESTS WILL ONLY EXECUTE FOR 9-TRACK TAPES SINCE THE READ REVERSE FUNCTION IS TESTED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 706477). IT WILL NOT RUN ALONE UNDER RBM.

- 706481 SIGMA 2/3-530 ERROR LOG LIST/ANALYSIS PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE ERROR LOG LIST/ANALYSIS PROGRAM IS A TOOL FOR FIELD ENGINEERING BY WHICH THE ERRORS LOGGED BY AN OPERATING SYSTEM ARE LISTED IN A COMPREHENSIVE AND READABLE FORMAT. SELECTION OF DEVICES, ERROR TYPES AND TIME SPAN IS OFFERED TO THE USER FOR FLEXIBILITY AND EASE OF OPERATION. THE VARIOUS LISTINGS OFFERED ARE: CHRONOLOGICAL LISTING, SORTED LISTING, SUMMARY OF ERRORS AND GRAPHICAL DISPLAY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THIS PROGRAM RUNS UNDER RBM AS A BACKGROUND PROGRAM IN AN OVERLAY FASHION. THE PROGRAM CONSIST OF A ROOT PROGRAM AND 5 OVERLAY PROGRAMS WHICH ARE JOINED IN AN OVERLAY MODE FOR EXECUTION. THE OTHER 5 OVERLAY PROGRAMS ARE: 706482, 706483, 706484, 706485, 706486, AND 706487. REFER TO SPECIFICATION NO. 703172 FOR LOADING AND ADDITIONAL INFORMATION.
- 706482 SIGMA 2/3-530 CONTROL PROGRAM FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE CONTROL PROGRAM FOR ELLA 530 IS THE CONTROLLING SEGMENT WHICH ALLOWS THE USER TO CHOOSE THE VARIOUS FUNCTIONS OFFERED BY THE ERROR LOG LIST/ANALYSIS PROGRAM. FOR FURTHER INFORMATION REFER TO SPECIFICATION NO. 703172 TITLED ERROR LOG LIST/ANALYSIS PROGRAM FOR XEROX 530.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE CONTROL PROGRAM WILL NEED THE FOLLOWING PROGRAMS TO FORM THE ERROR LOG LIST/ANALYSIS PROGRAM: 706483, 706484, 706485, 706486, AND 706487.
- 706483 SIGMA 2/3-530 CHRONOLOGICAL LIST. MODULE FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE CHRONOLOGICAL LISTING PROGRAM IS ONE OF 5 RELOCATABLE OBJECT MODULES WHICH IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS MODULE UNDER THE CONTROLLING ROOT (ELLA) LISTS OUT THE ERROR RECORDS IN A CHRONOLOGICAL FASHION. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.
- 706484 SIGMA 2/3-530 BOUNDARY ROUTINE FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE BOUNDARIES MODULES SET THE BOUNDARY VALUES FOR DEVICE, MODEL, ERROR TYPES AND TIME SPAN FOR THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.
- 706485 SIGMA 2/3-530 GRAPHICAL DISPLAY MODULE FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE GRAPHICAL DISPLAY MODULE WILL DISPLAY THE ERROR RECORDS IN A GRAPHICAL MANNER. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS METASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.
- 706486 SIGMA 2/3-530 SUMMARY MODULE FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE SUMMARY MODULE LISTS OUT A SUMMARY OF THE ERRORS FROM THE ERROR LOG. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION NO. 703172 FOR FURTHER INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.
- 706487 SIGMA 2/3-530 SORTED LISTING MODULE FOR ELLA 530
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS MODULE WILL PRODUCE A SORTED PRINT-OUT OF THE ERROR LOG. THIS IS ONE OF 5 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO SPECIFICATION #703172 FOR FURTHER INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM.

- 706488 SIGMA 2/3-530 ON-LINE EXERCISER SYSTEM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE GOAL OF THE ON-LINE EXERCISER SYSTEM IS TO PROVIDE A TOOL FOR THE CUSTOMER AND CUSTOMER ENGINEER WITH WHICH HE CAN TEST PARTICULAR SECTIONS OF THE HARDWARE OF THE SYSTEM WITHOUT DEGRADING THE FOREGROUND JOBS UNDER AN RBM ENVIRONMENT. THE ON-LINE EXERCISER PACKAGE DOES NOT DIAGNOSE. THUS THE ADVANTAGE OF THE ON-LINE EXERCISER SYSTEM IS TO BE ABLE TO VERIFY THAT A RESOURCE ELEMENT IS IN PROPER WORKING ORDER, WITHOUT TAKING THE SYSTEM INTO AN OFF-LINE ENVIRONMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS CATALOG NUMBER ONLY REPRESENTS THE LOAD MODULE FOR THE FOLLOWING:
1. EXERCISER CONTROL PROGRAM (CATALOG NUMBER 706477)
2. CARD READER/CARD PUNCH EXERCISER (CATALOG NUMBER 706478)
3. LINE PRINTER EXERCISER (CATALOG NUMBER 706479)
4. MAGNETIC TAPE EXERCISER (CATALOG NUMBER 706480)
THE ON-LINE EXERCISER SYSTEM WILL RUN AS A RBM USER PROGRAM USING ONLY THE FACILITIES THAT ARE AVAILABLE TO ANY USER, PLUS FOR THE CAPABILITY TO ACCESS A DOWNI DEVICE. IT EXECUTES ITS I/O'S BY USING M:READ'S AND M:WRITES'S. ALSO, ALL ERRORS WILL BE LOGGEN INTO THE STANDARD RBM ERROR LOG FILE.
- 720000 SIGMA 2/3-530 XEROX DIAG.PROG. LOADER (16-BIT MACHINE)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM LOADER (16-BIT MACHINE) WILL LOAD ABSOLUTE AND AND RELOCATABLE BINARY OBJECT MODULES IN STANDARD XSYMBOL FORMAT INTO MEMORY. IT WILL HANDLE AS PROGRAM MEDIA CARD DECKS, PAPER TAPE AND MAGNETIC TAPE.
COMMENTS:
THE LOADER MUST ALWAYS PRECEDE THE OBJECT MODULE IT IS TO LOAD. OBJECT MODULES CAN BE LOADED ABOVE THE LOADER ITSELF. THE FOLLOWING LOAD ITEMS ARE HANDLED BY THIS LOADER, ALL OTHERS ARE ILLEGAL: TYPE 0, SUBTYPE 1, 2, 3, 4, 5, 7. NOTE: THE -84 VERSION OF THIS PROGRAM IS NOT A DIRECT OUTPUT OF A SOURCE ASSEMBLY. THE ASSEMBLY OUTPUT MUST BE LOADED BY A DIAG. PROG. LOADER AND WILL PUNCH OUT A FORMATTED -84 VERSION.
- 720001 XEROX 530 HARDWARE MEMORY DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 530 H.C. MEMORY DIAGNOSTIC IS A FREESTANDING AND SELFLOADING PROGRAM. IT WILL PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF THE FIRST 8K OF MEMORY AND DETECT AND ISOLATE SINGLE HARD FAILURES WITHIN THE FIRST MEMORY MODULE.
COMMENTS:
THIS PROGRAM IS THE ONLY MEMORY DIAGNOSTIC FOR A XEROX 530 SYSTEM OF ONLY 8K OF MEMORY. THE PROGRAM WILL RESIDE IN THE FIRST HALF OF THE MEMORY TO TEST THE LAST HALF AND THEN RELOCATE ITSELF TO LAST HALF OF MEMORY TO TEST THE FIRST HALF. RELOCATION IS DYNAMIC AND AUTOMATIC DURING EXECUTION. A XEROX 530 MEMORY DIAGNOSTIC PROGRAM (720002) IS AVAILABLE FOR SYSTEMS WITH MORE THAN 8K OF MEMORY.
NOTE: THE -84 VERSION OF THIS PROGRAM IS NOT A DIRECT OUTPUT OF A SOURCE ASSEMBLY. THE ASSEMBLY OUTPUT MUST BE LOADED BY A DIAG. PROG. LOADER AND WILL PUNCH OUT A FORMATTED -84 VERSION.
- 720002 XEROX 530 MEMORY DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 530 MEMORY DIAGNOSTIC PROGRAM IS A DPM (720001) INTERFACED PROGRAM. IT WILL PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF MEMORY AND TO DETECT AND ISOLATE SINGLE HARD FAILURES WITHIN THE XEROX 530 MEMORY SYSTEM TO A MINIMUM HARDWARE MODULE SET.
COMMENTS:
THE PROGRAM REQUIRES A MINIMUM OF 16K OF MEMORY. IT IS NOT RELOCATABLE AND CANNOT TEST ITS OWN RESIDENT AREA, WHICH IS THE FIRST 8K OF MEMORY. A 8K MEMORY PROGRAM (720001) IS AVAILABLE TO TEST THIS AREA. THE DIAGNOSTIC PROGRAM MONITOR (DPM) MUST BE RESIDENT BEFORE THIS PROGRAM IS LOADED INTO MEMORY. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM) RESPECTIVELY.
- 720004 XEROX 530 DIAGNOSTIC PROGRAM MONITOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM PROVIDES THE USER INTERFACE FOR XEROX 530 MAIN FRAME DIAGNOSTICS. INCLUDED ARE CAPABILITIES FOR ACCEPTING USER INPUTS FROM A KEYBOARD/PRINTER, OUTPUTTING MESSAGES TO A KEYBOARD/PRINTER OR LINE PRINTER, PROGRAM CONTROL FOR DIAGNOSTIC VIA DIRECTIVE KEYINS, AND THE AUTOMATIC LOADING AND EXECUTION OF LOAD AND GO DIAGNOSTICS IF THE DIAGNOSTIC INPUT MEDIA IS THE DIAGNOSTIC PROGRAM LIBRARY ON MAGNETIC TAPE.
COMMENTS:
THIS PROGRAM IS USED IN CONJUNCTION WITH ONE FUNCTIONAL DIAGNOSTIC AT A TIME. MINIMUM HARDWARE REQUIRED IS: XEROX 530 MAIN FRAME WITH KEYBOARD/PRINTER, 8K OF MEMORY, AND A CARD READER OR MAGNETIC TAPE UNIT FOR PROGRAM INPUT.
- 720005 XEROX 530 INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM WILL FUNCTIONALLY TEST AND DIAGNOSE FAILURES OF THE XEROX 530 CPU ASSOCIATED WITH THE STANDARD INSTRUCTION REPERTOIRE. IT USES THE XEROX 530 HARDWARE INSTRUCTION SET AS THE BASIS FOR TESTING THE REMAINING INSTRUCTIONS. THE XEROX 530 INSTRUCTION SET IS BROKEN UP INTO: HARDWARE AND NON-HARDWARE INSTRUCTION TESTS. THE PROGRAM WILL RUN UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR

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720005 INSTRUCTION DIAGNOSTIC (CONTINUED)
AND WILL HAVE NO DIRECTIVES BY ITSELF. WHENEVER AN ERROR IS DETECTED AN ERROR MESSAGE IS TYPED OUT WITH DATA EXPECTED AND OBSERVED AND HARDWARE MODULES AFFECTED.
COMMENTS:
THE MINIMUM HARDWARE WOULD BE: XEROX 530 MAINFRAME, 8K OF MEMORY, CARD READER OR MAGNETIC TAPE, LOCAL KEYBOARD/PRINTER. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM) RESPECTIVELY.

720006 XEROX 530 INTERRUPT DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM WILL DETECT AND ISOLATE A SINGLE HARD FAILURE WITHIN THE XEROX 530 INTERRUPT SYSTEM. THE REAL-TIME CLOCK AND MACHINE FAULT INTERRUPTS WILL ALSO BE TESTED. THE PROGRAM WILL RUN UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR AND WILL HAVE NO DIRECTIVES BY ITSELF. WHENEVER AN ERROR IS DETECTED AN ERROR MESSAGE IS TYPED OUT WITH DATA EXPECTED AND OBSERVED AND HARDWARE MODULES EFFECTED. THERE WILL BE TWO MODES OF OPERATION: STAND-ALONE OR LOAD AND GO MODES. THIS PROGRAM IS NOT AN EXERCISER BUT A FUNCTIONAL TEST.
COMMENTS:
THE PROGRAM WILL NOT TEST ANY INTERRUPTS WHICH WILL REQUIRE OPERATOR PROGRAM COORDINATION SUCH AS ALL THE PCP INTERRUPT SWITCHES AND THE POWER ON-OFF INTERRUPTS. ALSO THE PROGRAM WILL NOT TEST ANY INTERRUPTS THAT THE SOFTWARE CANNOT GENERATE. THE MINIMUM HARDWARE WOULD BE: 1. XEROX 530 MAINFRAME, 2. 8K OF MEMORY; 3. CARD READER OR MAGNETIC TAPE; 4. LOCAL KEYBOARD/PRINTER. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM).

720007 XEROX 530 IOP DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PRIMARY OBJECTIVE OF THIS PROGRAM IS TO PROVIDE THE CAPABILITY TO VERIFY THE SUCCESSFUL OPERATION OF THE XEROX 530 IOP AND TO DETECT ALL ERRORS AND OF THE DETECTED ERRORS TO ISOLATE SINGLE HARD FAILURES WITHIN THE XEROX 530 IOP SYSTEM TO A MINIMUM MODULE SET. THE TURNAROUND MODE FEATURES OF THE IOP AND THE SIGMA ADAPTOR WILL BE USED EXTENSIVELY TO ACHIEVE THIS OBJECTIVE WHEN AN ERROR IS DETECTED AN ERROR MESSAGE IS OUTPUT WHICH DEFINES THE EXPECTED AND OBSERVED DATA AND THE HARDWARE MODULES EFFECTED.
COMMENTS:
THE PROGRAM RUNS UNDER THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR-DPM (720004). IT HAS TWO MODES OF OPERATION --STAND-ALONE AND LOAD AND GO. THE MINIMUM HARDWARE CONFIGURATION WOULD BE-XEROX 530 MAINFRAME, 8K OF MEMORY, CARD READER OR MAGNETIC TAPE FOR PROGRAM INPUT AND A LOCK KEYBOARD/PRINTER. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM).

720009 XEROX 530 XEROX DIAG. PROG. MAG TAPE LIB. (16-BIT)
AUTHOR: XEROX CORPORATION
ABSTRACT:
TWO DIAGNOSTIC TAPE LIBRARIES ARE AVAILABLE: A BINARY (-86) AND A COMPRESSED (-46). THE BINARY TAPE CONTAINS XEROX 530 DIAGNOSTIC PROGRAMS WHICH ARE CURRENTLY SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION AND SYSTEMS. THE COMPRESSED TAPE CONTAINS THE COMPRESSED SOURCE LINES FOR ALL PROGRAMS ON THE BINARY TAPE WHICH ARE SUPPORTED BY THE DIAGNOSTIC PROGRAMMING SECTION. THE COMPRESSED TAPES IS AVAILABLE ONLY ON A REGIONAL BASIS. REFER TO THE PROGRAM DESCRIPTION 720009-11 FOR LOADING AND USE INSTRUCTIONS.
COMMENTS:
REQUIRED EQUIPMENT: XEROX 530 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, AND 1 KEYBOARD PRINTER.

720010 SIGMA 2/3-530 XEROX SOFTWARE HARDWARE TEST (16-BIT)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM TESTS THE 'HARDWARE' INSTRUCTION SET USED BY THE XEROX 530 MAINFRAME DIAGNOSTIC PROGRAMS AND ALSO TESTS THE KEYBOARD/PRINTER USED FOR USER INTERFACE BY ALL XEROX 530 DIAGNOSTICS.
COMMENTS:
THIS PROGRAM IS FREESTANDING OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. REQUIRED HARDWARE: XEROX 530, OR SIGMA 2, OR SIGMA 3 CPU WITH KSR AND PROGRAM INPUT DEVICE (CARD READER, MAGNETIC TAPE, OR PAPER TAPE). PROGRAM IS SELF LOADING.

720011 XEROX 530 HARDWARE HARDWARE DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GENERATES THE 'PROM' CODING SHEETS FOR THE XEROX 530 DIAGNOSTIC IC'S. THE CHECKSUM OF ALL OF THE DIAGNOSTIC TESTS INCLUDED WITHIN THE PROGRAM IS COMPUTED, STUFFED INTO THE 'PROM' PATTERN, AND THE PATTERN IS OUTPUT TO THE LINE PRINTER. THE HARDWARE DIAGNOSTIC TESTS MAY BE EXECUTED (FOR DEBUG) BY EXECUTING A PORTION OF THIS PROGRAM.
COMMENTS:
THIS PROGRAM IS FREESTANDING OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC MAINTENANCE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. REQUIRED HARDWARE: XEROX 530 CPU WITH KSR, LINE PRINTER, AND A BINARY INPUT DEVICE FOR PROGRAM LOADING. SIGMA 2 OR 3 MAY BE USED FOR CODING SHEET GENERATION BUT NOT FOR TEST PROGRAM DEBUG. XEROX DIAGNOSTIC LOADER (720000-84) PRECEEDS EACH OBJECT DECK.

720012 XEROX 530 CPU OPTIONAL INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE OPTIONAL INSTRUCTIONS IN THE XEROX 530 COMPUTER. THESE CONSIST OF ALL FLOATING

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- 720012 CPU OPTIONAL INSTRUCTION DIAGNOSTIC (CONTINUED)
POINT AND/OR FIELD ADDRESSING INSTRUCTIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER XEROX 530 DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. REQUIRED HARDWARE: XEROX 530 CPU WITH KSR, LINE PRINTER (OPTIONAL) AND BINARY INPUT DEVCE FOR PROGRAM LOADING. EITHER THE FLOATING POINT OR FIELD ADDRESSING OPTION (OR BOTH) MUST BE INSTALLED. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR) AND 720004-84 (DPM).
- 720013 XEROX 530 MANUAL CONTROL DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM TESTS THE FEATURES OF THE XEROX 530 CPU THAT REQUIRE MANUAL INTERVENTION TO OPERATE. THESE ARE MEMORY PROTECT, POWER FAIL SAFE, AND TRACE. THIS PROGRAM CANNOT BE RUN UNDER THE LOAD AND GO MODE OF THE DIAGNOSTIC SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE XEROX 530 DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. REQUIRED HARDWARE: XEROX 530 CPU WITH KSR, LINE PRINTER (OPTIONAL), AND A BINRY INPUT DEVICE FOR PROGRAM LOADING. THE CARD DECK CONSISTS OF THE OBJECT DECK FROM THE ASSEMBLY OF THIS PROGRAM, PRECEDED BY 720000-84 (LDR), AND 720004-84 (DPM).
- 720014 SIGMA 3-530 SYSTEMS EXERCISER (SYSX)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE SYSTEMS EXERCISER IS DESIGNED TO ISOLATE AND DETECT SYSTEM FAILURES BY APPROACHING THE SYSTEM'S MAXIMUM ACTIVITY WHILE EXERCISING AND TESTING ALL OF THE SYSTEM RESOURCES.
COMMENTS:
THIS PROGRAM IS A FREESTANDING S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
- 720015 SIGMA 3-530 DPS LOAD AND GO (LAG) PROCESSOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM (LAG) PROVIDES AN OPERATOR INTERFACE FOR CONTROL OF FUNCTIONAL DIAGNOSTIC PROGRAMS (FDP'S) OPERATED UNDER CONTROL OF THE XEROX 530 DIAGNOSTIC PROGRAMMING SYSTEM MONITOR (MON). ADDITIONAL DIRECTIVES (CONTROL COMMANDS IN THE DPS LANGUAGE) MADE AVAILABLE ARE: FTM, UTM, AND CONTINUE. DPS DESIGN SPECIFICATION 703149 CONTAINS A DETAILED DESCRIPTION OF EACH OF THESE DIRECTIVES AND THE DPS LANGUAGE STRUCTURE. THE LAG PROCESSOR SELECTS AND CONTROLS ACTIVATION OF TEST AND UTILITY MODULES IN THE FDP, AND INTERFACES ERROR DATA WITH REPORTING ROUTINES IN THE MONITOR (MON).
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS PROGRAM IS LOADED BY THE DPS MONITOR, CATALOG NUMBER 720016, AND IT REQUIRES APPROXIMATELY 1.8K WORDS OF MEMORY.
- 720016 SIGMA 3-530 DIAGNOSTIC PROGRAM SYSTEM MONITOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM (MON) PROVIDES THE OPERATOR INTERFACE TO PROCESSORS OPERATED UNDER THE XEROX 530 DIAGNOSTIC PROGRAMMING SYSTEM (DPS): THE EDITOR, (EDIT); LOAD AND GO, (LAG); AND THE SYSTEMS EXERCISER, (SYX). THE PROGRAM PROVIDES CONTROL OF DPS BY A COMBINATION OF PROCESSOR CONTROL PANEL SWITCHES AND AN OPERATING LANGUAGE WHICH INCLUDES THESE DIRECTIVES: RUN, HALT, DISPLAY, REPLACE, STORE, PRINT, AND LOAD. DPS DESIGN SPECIFICATION 703149 CONTAINS A DETAILED DESCRIPTION OF THE DPS LANGUAGE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN META-SYMBOL.
THIS PROGRAM (MON) OCCUPIES THE FIRST 5K WORDS (APPROXIMATELY) OF MEMORY. THE DPS REQUIRES 18K OF MEMORY AND A KEYBOARD PRINTER CONTROLLER WITH LOCAL AND/OR REMOTE TERMINAL. A LINE PRINTER (OPTIONAL) IS RECOMMENDED FOR MESSAGE OUTPUT.
- 720020 XEROX 530 NS LINE PRINTER DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM VERRIFIES THE OPERATION OF THE NS LINE PRINTER I/O SUBSYSTEM CONSISTING OF A UNIT RECORD CONTROLLER (URC), LINE PRINTER ADAPTER (LPA) AND A LOW, MEDIUM, OR HIGH SPEED LINE PRINTER. THE FUNCTIONAL TEST ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THE PROGRAM IS INTERFACED TO THE XEROX 530 LOAD AND GO (LAG) PROGRAM, CATALOG NUMBER 720015 AND THE XEROX 530 DIAGNOSTIC PROGRAM MONITOR (DPS). MEMORY REQUIREMENT IS 18K.
- 720021 XEROX 530 BRANCH DATA ENTRY SYSTEMS EXERCISER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM VERIFIES SYSTEM COMPONENTS BY APPROACHING MAXIMUM SYSTEM ACTIVITY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.

- 720022 XEROX 530 XEROX COIN-X530 DIAG. PROGRAM LIBRARY
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE COIN-X530 DIAGNOSTIC PROGRAM LIBRARY (DPL) IS A MULTIPLE FILE MEDIA. EACH FILE CONSISTS OF ONE DIAGNOSTIC PROGRAM. THE DPL IS LOADED BY THE DPL-LOADER (720008) WHICH IS A PART OF DPL. THE COIN-X530 DPL CONTROL PROGRAM (720023) WILL LOAD ANY FILE ON REQUEST.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
THE DPL IS SPECIFICALLY DESIGNED FOR COIN-X530 (BRANCH) SYSTEMS AND IS A EDITED VERSION OF SIGMA 2/3-530 DIAGNOSTIC PROGRAM LIBRARY (720009).
- 720023 XEROX 530 XEROX COIN-X530 DIAG. PROG. LIB. CONTROL
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM LIBRARY CONTROL PROGRAM IS A FREESTANDING PROGRAM. IT CONTROLS LOADING OF DIAGNOSTIC PROGRAMS FROM THE XEROX COIN-X530 DIAG. PROGRAM LIBRARY (720022). IT PROVIDES A MEANS OF EXECUTING SEVERAL PROGRAMS SEQUENTIALLY IN 'LOAD-AND-GO' MODE OR LOADS A PROGRAM SPECIFICALLY SELECTED IN THE STAND-ALONE MODE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
THE PROGRAM IS SPECIFICALLY TAILORED FOR A COIN X-530 SYSTEM AND REQUIRES A UTS, CP-V, OR BPM SYSTEM FOR MAINTENANCE.
- 720024 XEROX 530 COIN CC33 TEST PROGRAM
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
DIAGNOSTIC PROGRAM FOR NBDE COIN CC33A AND CC33D.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPH OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

- 704000 SIGMA 2 I/O TEST UTILITY PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
PROVIDES PROGRAM INTERFACING BETWEEN THE SIGMA 2 COMPUTER AND ANY SIGMA 2 SERIES INPUT/OUTPUT PERIPHERAL DEVICE. PROVIDES THE USER WITH A METHOD OF DIRECTING, ON-LINE, THE SEQUENCE OF EVENTS TO TAKE PLACE DURING AN I/O DEVICE EXERCISE THROUGH THE USE OF AN INPUT TEST LANGUAGE.
COMMENTS:
MINIMUM CONFIGURATION: 4K MEMORY, PAPER TAPE OR CARD READER FOR LOADING, KEYBOARD/PRINTER FOR CONTROL. XDS MANUAL 901127 CONTAINS PROGRAM DESCRIPTION, MODEL NO. 704000-11, AND PROGRAM LISTING, MODEL NO. 704000-51. THIS PROGRAM USES RELOCATABLE LOADER PROGRAM 705299 (XDS MANUAL 901558) CORE RESIDENCY OF THE BASIC UTILITY PROGRAM IS APPROXIMATELY 3400 DECIMAL LOCATIONS AFTER INITIALIZATION.
- 704002 SIGMA 2/3 CPU INTERRUPT DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE EXTERNAL INTERRUPT DIAGNOSTIC IS A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF THE EXTERNAL INTERRUPT SYSTEM. THE EXTERNAL INTERRUPT SYSTEM MAYBE CABLED IN ANY POSSIBLE PRIORITY SCHEME AND CONSIST OF 1 TO 132 EXTERNAL INTERRUPTS IN 1 TO 9 INTERRUPT CHASSIS. THE PRIORITY SCHEME AND NUMBER OF INTERRUPT LEVELS IN EACH CHASSIS (GROUP) MUST BE KNOWN AND INPUT TO THE PROGRAM AS PARAMETERS.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 2 COMPUTER WITH 4K OR MORE MEMORY CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, KEYBOARD/PRINTER AS OPERATOR COMMUNICATION DEVICE, AND ONE OR MORE EXTERNAL INTERRUPT LEVELS.
- 704006 SIGMA 2 INTEGRAL IOP AND WD INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC PROGRAM FUNCTIONS AS A FREE STANDING PROGRAM WITH THE JX58 TEST SET. THE FIRST PART OF THE PROGRAM TESTS THE RD (READ DIRECT) / WD (WRITE DIRECT) INTERFACE. THE SECOND PART OF THE TEST EXERCISES AND TESTS ALL FUNCTIONS OF THE INTEGRATED IOP BY SIMULATING THE DEVICE CONTROLLER WITH THE JX58 TEST SET. THE TWO PARTS OF THE PROGRAM ARE INDEPENDENT OF EACH OTHER, I.E. RUNNING ONE PART DOES NOT NECESSITATE RUNNING THE OTHER PART.
COMMENTS:
CONFIGURATION: SIGMA 2 COMPUTER, 4K OR MORE MEMORY, CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, JX58 TEST SET, OPTIONAL KEYBOARD PRINTER AS OPERATOR COMMUNICATION DEVICE.
- 704011 SIGMA 2 CPU DIAGNOSTIC SYSTEM (AUTO)
AUTHOR: XEROX
ABSTRACT:
AUTO WILL DETECT AND DIAGNOSE MACHINE FAILURES ASSOCIATED WITH THE INSTRUCTION REPERTOIRE.
COMMENTS:
THE TECHNICAL MANUAL IS 901007 (SIGMA 2 AUTO DIAGNOSTIC PROGRAM MANUAL). AUTO OCCUPIES 3370 DECIMAL LOCATIONS. AUTO WILL RUN ON ANY SIGMA 2 CONFIGURATION. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT AND INCLUDES ITS OWN LOADER THIS BINARY OUTPUT IS PRODUCED BY THE SIGMA 2 PROGRAM 2DIBIGEN(704030).
- 704012 SIGMA 2/3 KEYBOARD DISPLAY DIAONOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE KEYBOARD DISPLAY IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES THE FOLLOWING FEATURES: A VERIFICATION OF THE COMMUNICATIONS INTERFACE, INCLUDING PRIMARY AND AUXILIARY KEYBOARDS AND ASSOCIATED CONTROL LOGIC. A VERIFICATION OF THE HARD COPY MONITOR FROM THE COMMUNICATIONS INTERFACE AND SEVERAL DISPLAY PATTERNS FOR THE ALIGNMENT OF THE ANALOG CIRCUITRY.
COMMENTS:
REQUIRED CONFIGURATION: A SIGMA 2 WITH 8K OF MEMORY AND THE REAL TIME 500 HZ CLOCK OPTION (COUNTER 1). A CARD OR PAPER TAPE READER, A KEYBOARD/PRINTER, A CHARACTER ORIENTED COMMUNICATIONS (COC) CONTROLLER (WITH DIO INTERFACE, TWO LEVELS OF EXTERNAL INTERRUPTS, AND PROPER SEND/RECEIVE MODULES FOR INTERFACE WITH A KEYBOARD DISPLAY) AND A KEYBOARD DISPLAY. TWO COMPATIBLE DATA SETS ARE REQUIRED, IF THE KEYBOARD DISPLAY IS TO BE REMOVED. A LINE PRINTER IS OPTIONAL.
- 704015 SIGMA 2/3 KEYBOARD PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE SIGMA ASR/KSR KEYBOARD/PRINTER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 2 WITH 8K MEMORY; ONE OR MORE ASR/KSR KEYBOARD/PRINTER; AND CARD OR PAPER TAPE READER FOR LOADING. - ASSEMBLED WITH DIAGNOSTIC CONTROL PROGRAM 704025
- 704022 SIGMA 2/3 MEMORY PROGRAM - MEDIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
MEDIC 2 CONSISTS OF AN EXECUTIVE ROUTINE AND SIXTEEN INDIVIDUAL MEMORY TESTS WHICH ARE EACH DESIGNED TO PERFORM A DISCRETE MEMORY TESTING FUNCTION. THE INDIVIDUAL TESTS ARE CONTROLLED BY THE EXECUTIVE ROUTINE, WHICH IN ADDITION TO CONTROLLING THE TEST SEQUENCE AND SELECTION, MONITORS ALL OPERATOR REQUESTS, PERFORMS THE PRINTING OPERATIONS FOR ALL TESTS, AND RELOCATES MEDIC 2 TO ALTERNATE AREAS OF CORE SO THAT THE ENTIRE MEMORY MAY BE TESTED.

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- 704022 MEMORY PROGRAM - MEDIC (CONTINUED)
COMMENTS:
MEDIC 2 OCCUPIES 1869 DECIMAL LOCATIONS. IT WILL RUN ON ANY CONFIGURATION THAT INCLUDES 8K OF MEMORY OR MORE. TECHNICAL MANUAL IS 900676 (SIGMA 2 MEMORY 8K DIAGNOSTIC PROGRAM MANUAL).
- 704025 SIGMA 2/3 DIAGNOSTIC CONTROL PROGRAM (DCP)
AUTHOR: XEROX
ABSTRACT:
PROVIDES PROGRAM INTERFACE BETWEEN OPERATOR AND SUBROUTINES (VIA SYNTACTICAL TEST LANGUAGE) ASSEMBLED AS AN INTEGRAL PART OF THE DCP TO ACTIVATE AND CONTROL A SPECIFIC PERIPHERAL DEVICE THE DCP IS CATALOGUED AS A REFERENCE FOR PROGRAMS ASSEMBLED WITH AND OPERATED WITHIN THE ENVIRONMENT OF THE DCP.
COMMENTS:
MINIMUM COMPUTER CONFIGURATION: MEMORY 4K OR DEPENDENT UPON INTERFACED PROGRAM, KEYBOARD/PRINTER, PAPER TAPE OR CARD READER FOR INPUT MEDIA, HARDWARE OPTIONS NOT REQUIRED PROGRAM DESCRIPTION: APPROXIMATELY 50 PAGES PROGRAM LISTING: APPROXIMATELY 80 PAGES
- 704030 SIGMA 2 SIGMA 2 DIAGNOSTIC BINARY GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO GENERATE BINARY CARDS OR PAPER TAPE FROM DATA STORED IN MEMORY. THE FIRST RECORD WILL BE A LOADER AND THE REMAINING RECORD(S) WILL BE IN A SPECIAL FORMAT. THIS IS REQUIRED TO INCREASE THE PROBABILITY OF LOADING ON A MACHINE THAT IS EXPERIENCING A MALFUNCTION.
COMMENTS:
MINIMUM CONFIGURATION: SIGMA 2 OR SIGMA 2 SIMULATOR; 8K OF SIGMA 2 CORE; CARD READER AND CARD OR 8 CHANNEL PAPER TAPE PUNCH. THE PROGRAM OCCUPIES 403 DECIMAL LOCATIONS. THE PROGRAM TO BE DUMPED MAY NOT EXCEED 4081(DECIMAL) LOCATIONS. THIS PROGRAM IS PROVIDED WITH ITS OWN LOADER.
- 704035 SIGMA 2 COMMAND SYS 11, SECT 4-FSK TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM 11 DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
COMMENTS:
FSK TEST EXERCISER SECTION
- 704038 SIGMA 2 COMMAND SYS 11, SECT 5-TONES DIGITAL TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ONE SEGMENT OF COMMAND SYSTEM 11 DESCRIBED IN APPLICATIONS PROGRAM MANUAL 980272
COMMENTS:
TONES DIGITAL TEST EXERCISER SECTION
- 704139 SIGMA 2/3 REAL TIME CLOCK TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING THE REAL TIME CLOCKS AND COMPUTING THE TIME OF DAY OR ELAPSED TIME.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 2 WITH REAL TIME CLOCK OPTION.
- 704140 SIGMA 2/3 POWER FAIL-SAFE TEST
AUTHOR: XEROX CORPORATION
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING THE POWER FAIL SAFE SYSTEM AND MACHINE FUNCTIONS WHEN POWER FAILURE OCCURS
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 2 WITH POWER FAIL SAFE OPTION
- 704320 SIGMA 2 MASS STORAGE DISC FILE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM VERIFIES THE OPERATION OF THE MASS STORAGE DISC FILE, MODEL NUMBERS 7281/7282, 7283, 7284 AND THE WIDE INTERFACE OPTION, MODEL NUMBER 7286. THE TEST PROGRAM ALLOWS THE TESTING OF ANY PORTION OF THE DISC FILE AND PROVIDES SUFFICIENT INFORMATION FOR ERROR ISOLATION. THE EXECUTION OF THE TEST PROGRAM IS CONTROLLED BY THE DIAGNOSTIC CONTROL PROGRAM (DCP). COMMUNICATION BETWEEN USER AND THE PROGRAM IS VIA A SYNTAX TEST LANGUAGE.
COMMENTS:
THE TEST PROGRAM REQUIRES A MINIMUM OF 12K OF MEMORY, A KEYBOARD/PRINTER, A CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, AND A MASS STORAGE DISC FILE.
- 704348 SIGMA 2 TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM TESTS THE SURFACE OF A MAG TAPE BETWEEN LOAD MARK AND THE END-OF-TAPE MARK
COMMENTS:
TO OBTAIN AN ABSOLUTE VERSION, LOAD THE RELOCATABLE PROGRAM USING THE STAND ALONE SYSTEM 704958 AND

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- 704348 TAPE TEST PROGRAM (CONTINUED)
PUNCH FROM LOAD BIAS TO BIAS+26F, THEN PUNCH COMMLW TO ABSL, THEN A TRANSFER TO BIAS. THE PROGRAM OCCUPIES 623 CELLS AND USES THE NEXT 4096 AS BUFFER, IN ADDITION THE PROGRAM USES U:IOCS (SEE XDS 901047).
- 705298 SIGMA 2/3 REMOTE BATCH TERMINAL TEST
AUTHOR: XEROX CORPORATION
ABSTRACT:
EXERCISES A MODEL 7670 REMOTE BATCH TERMINAL CONNECTED THROUGH A COMMUNICATIONS LINK AND A MODEL 7601 DATA SET CONTROLLER TO A SIGMA 2 COMPUTER. OPERATES UNDER CONTROL OF THE SIGMA 2 DIAGNOSTIC CONTROL PROGRAM. DIRECTIVES ARE PROVIDED FOR: (1) TRANSMISSION OF CONTROL CHARACTERS (2) PRINTING A STANDARD PATTERN; (3) PUNCHING A STANDARD PATTERN; (4) ASSIGNING A SHORT OR FULL BLOCK, EBCDIC OR ASCII, PATTERN; (5) TRANSMISSION OF SELECTED PATTERN; (6) READING TEST (STD) DECK AND COMPARING AGAINST STANDARD PATTERN; (7) EXERCISE OF UNATTENDED OPERATION CAPABILITY.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 2 COMPUTER WITH 8K MEMORY; KEYBOARD/PRINTER; COUNTER 1 REAL TIME CLOCK 2 MILLISEC; XDS MODEL 7601 DATA SET CONTROLLER WITH SYNCHRONOUS FORMAT; BELL 201 SERIES SYNCHRONOUS DATA SETS OR EQUIVALENT; XDS MODEL 7670 REMOTE BATCH TERMINAL. OPTIONAL EQUIPMENT: LINE PRINTER FOR ERROR REPORTING; CARD READER FOR DIRECTIVE INPUT; MODEL 7602 FULL DUPLEX OPTION; MODEL 7671 UNATTENDED ANSWER OPTION; MODEL 7672 TRANSMIT/RECEIVE MONITOR OPTION; MODEL 7673 OFF-LINE LISTING OPTION; MODEL 7674 TELEPHONE ALERT OPTION.
- 705299 SIGMA 2/3 DIAGNOSTIC LOADER-SYMBOL+EXTENDED SYMBOL
AUTHOR: XEROX
ABSTRACT:
THIS LOADER LOADS THE OBJECT PROGRAM MEDIA GENERATED BY THE SIGMA 2 SYMBOL AND EXTENDED SYMBOL ASSEMBLER. THE LOADER WILL NOT HANDLE THE FOLLOWING PROGRAM MEDIA LOAD ITEMS: 1. RELOCATED LOAD-COMMON BASE 2. RELATIVE LOCATION POINTER 3. NAME AND ADDRESS DEFINITION. THE OBJECT PROGRAM MAY BE ORIGINATED AT LOCATION 0. THE LOADER WILL BE AUTOMATICALLY RELOCATED TO THE LAST 256 MEMORY LOCATIONS UNLESS A LOADER BASE ADDRESS IS SPECIFIED AT THE OPTIONAL DATA SWITCH 1 SELECTED WAIT. AT THIS WAIT, AN ALTERNATE PROGRAM MEDIA INPUT DEVICE MAY BE SPECIFIED AS WELL AS A RELOCATION BIAS FOR THE OBJECT PROGRAM. A DATA SWITCH 2 OPTION PERMITS A WAIT PRIOR TO START OF OBJECT PROGRAM
COMMENTS:
COMPUTER CONFIGURATION: SIGMA 2 COMPUTER, 4K OR MORE OF MEMORY, CARD READER OR 8 LEVEL PAPER TAPE READER.
- 705356 SIGMA 2 WATCHDOG TIMER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDES A SEMI-AUTOMATIC TEST OF THE PROGRAMMABLE FEATURES OF THE WATCHDOG TIMER OPTION.
COMMENTS:
REQUIRES MINIMUM OF 4K OF CORE AND A CARD OR PAPER TAPE READER.
- 705357 SIGMA 2 CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS
AUTHOR: XEROX
ABSTRACT:
THE CCS-20 DIAGNOSTIC PROGRAM WILL TEST AND EXERCISE THE XDS MODEL CCS-20 COMPUTER TO COMPUTER HIGH SPEED DATA LINK. THIS PROGRAM IS RUN IN CONJUNCTION WITH THE SIGMA 5/7 CCS-20 DIANOSTIC.
- 705386 SIGMA 3 EXTENDED ARITHMETIC OPTION
AUTHOR: XEROX
ABSTRACT:
TESTS EXTENDED ARITHMETIC INSTRUCTION SET TO DETECT MALFUNCTIONS WHEN EXECUTING THE VARIOUS INSTRUCTIONS AND TO INDICATE LIKELY FAILING MODULE(S) FOR MULTIPLY-DIVIDE INSTRUCTIONS, IF NO ERRORS ARE DETECTED DURING EXECUTION OF STANDARD TEST CASES, RANDOM NUMBER TESTS WILL BE GENERATED. IF ERROR IS DETECTED, A T-CHART WILL BE PRINTED ON KEYBOARD/PRINTER FOR POSSIBLE IDENTIFICATION OF PHASE(S) DURING WHICH THE INSTRUCTION IS FAILING. THIS PROGRAM ASSUMES SIGMA 3 AUTO DIAGNOSTIC PROGRAM WORKING SUCCESSFULLY ON THE SYSTEM BEING TESTED.
COMMENTS:
REQUIRES MINIMUM OF 8K OF CORE AND NEEDS A CARD READER OR A PAPER TAPE READER AS AN INPUT DEVICE.
- 705528 SIGMA 2/3 MEMORY PROTECT PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROTECTS THE MEMORY PROTECT FEATURE OF SIGMA 2/3 SYSTEM. THIS IS ACCOMPLISHED BY TESTING EACH MEMORY BLOCK OF 256 WORDS UNDER 'PROTECTED' AND 'UNPROTECTED' ENVIRONMENT. AFTER THIS TEST ON EACH BLOCK IS COMPLETED, FURTHER TESTS ARE PERFORMED ON THE MEMORY PROTECT VIOLATION LOGIC TO CHECK THE DIFFERENT OPERATIONAL CHARACTERISTICS OF THE PROTECT FEATURE. THE PROTECT FEATURE SHOULD NOT BE CHECKED UNLESS CPU AUTO DIAGNOSTIC AND CPU INTERRUPT DIAGNOSTICS HAVE RUN SUCCESSFULLY ON THE SYSTEM
COMMENTS:
REQUIRES MINIMUM OF 4K OF CORE. PROGRAM OCCUPIES 1245 DECIMAL LOCATION. AN INPUT DEVICE, SUCH AS CARD READER OR A PAPER TAPE READER IS NECESSARY.

- 705529 SIGMA 3 MEMORY DIAGNOSTIC-FAULT LOCATOR
AUTHOR: XEROX
ABSTRACT:
THE OBJECTIVE OF THE PROGRAM IS TO DETECT AND ISOLATE MALFUNCTIONS IN THE SIGMA 3 BASIC MEMORY UNIT. ISOLATION IS TO THE LOGIC MODULE LEVEL.
COMMENTS:
THE PROGRAM REQUIRES THAT THE FIRST 4K OF MEMORY IS OPERATIONAL ASR/KSR OR LINE PRINTER ARE OPTIONAL BUT DESIRABLE.
- 705530 SIGMA 3 CPU DIAGNOSTIC - AUTO
AUTHOR: XEROX
ABSTRACT:
DETECTS AND DIAGNOSES FAILURES OF THE SIGMA 3 CPU ASSOCIATED WITH THE INSTRUCTION REPERTOIRE, EXCEPT FOR THOSE INSTRUCTIONS RELATED TO THE EXTENDED ARITHMETIC OPTION. THIS DIAGNOSTIC PROGRAM CONSISTS OF TWO GROUPS OF TESTS, A PRETEST AND MAIN BODY. THE PRETEST CONSISTS OF SIX RECORDS. FAILURE OF ANY TEST IN THE PRETESTS RESULTS IN A HALT AT THE LOADING OF THE ASSOCIATED RECORD. IF THE PRETEST IS SUCCESSFUL, THE MAIN BODY OF TESTS IS LOADED. THE MAIN BODY OF TESTS CONSISTS OF INDIVIDUAL TEST CASES AND A COMMON DRIVER. EACH TEST IS EXECUTED, CONTROL IS RETURNED TO THE DRIVER, AND, IF THE RESULTS ARE CORRECT, THE NEXT TEST IS ENTERED. FAILURE OF ANY TEST RESULTS IN AN ERROR WAIT WITH A REFERENCE TO FAILING SIGNALS AND MODULES IN THE LISTING. SUBORDINATE TESTS, SUCH AS IO COMPATABILITY AND INSTRUCTION INTERRUPTABILITY ARE ALSO PROVIDED.
COMMENTS:
REQUIRES 8K OF CORE AND A CARD OR PAPER TAPE READER FOR PROGRAM INPUT. OPTIONAL EQUIPMENT MAY BE A KEYBOARD OR LINE PRINTER FOR MESSAGE OUTPUT. PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT WITH A LOADER FOR THE FORMAT.
- 705672 SIGMA 3 MULTIPLE-PORT MEMORY RANDOM EXERCISOR
AUTHOR: XEROX
ABSTRACT:
DETECTS AND DIAGNOSES FAILURES OF THE SIGMA 3 MULTIPLE-PORT MEMORY. THIS DIAGNOSTIC PROGRAM CONSISTS OF 3 TESTS. THE FIRST TWO TESTS CHECK THE MPH ADDRESSING AND MPH DATA PATHS. THE THIRD TEST EXERCISES THE MPH IN RANDOM FASHION. THE THIRD TEST OPERATES AS FOLLOWS: THE PROGRAM IS RANDOMLY RELOCATED IN MEMORY. A 1K DATA BLOCK IS RANDOMLY ESTABLISHED SOMEWHERE ELSE IN MEMORY, AND FILLED WITH RANDOM DATA. WHILE THIS DATA IS CHECKSUMMED BY THE PROGRAM THROUGH THE CPU PORT, I/O OPERATIONS ON THE DATA (ALTERNATING WRITE AND READ FUNCTIONS) ARE PERFORMED THROUGH THE EIOP PORT. IF AN ERROR OCCURS, THE PROGRAM ATTEMPTS TO 'ZERO-IN' ON THE FUNCTIONS CAUSING THE ERROR. IF NO ERRORS OCCUR, TEST 3 IS RESTARTED WITH NEW PARAMETERS
COMMENTS:
REQUIRES 8K OF CORE AND A CARD OR PAPER TAPE READER FOR PROGRAM INPUT. AN OPTIONAL KEYBOARD OR LINE PRINTER PROVIDES MESSAGE OUTPUT. EITHER A MAGNETIC TAPE UNIT OR RAD UNIT CONNECTED TO THE EIOP IS REQUIRED. (PROGRAM SEARCHES FOR OUTPUT DEVICE ON EIOP, STARTING WITH ADDRESS X'80'.)
- 705679 SIGMA 3 EXTERNAL IOP TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL PROVIDE THE USER WITH A MEANS OF TESTING AN XDS MODEL 8171/8102 EXTERNAL INPUT/OUTPUT PROCESSOR (EIOP). COMMUNICATION WITH THIS PROGRAM VIA THE DIAGNOSTIC PROGRAM MONITOR CAN BEST BE PERFORMED BY A KEYBOARD/PRINTER.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 3 WITH 8K MINIMUM MEMORY. MODEL 8171/8102 EXTERNAL I/O PROCESSOR, MODEL 720X/723X RAD OR MODEL 732X 9-TRACK MAG TAPE, CARD-READER, PAPER-TAPE READER, OR MAG TAPE FOR PROGRAM INPUT, AND KEYBOARD-PRINTER FOR PROGRAM COMMUNICATION. OPTIONAL EQUIPMENT: LINE-PRINTER FOR HI-SPEED MESSAGE OUTPUT.
- 705690 SIGMA 3 INTEGRAL IOP TEST
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE TEST ASSURES THE INTEGRITY OF THE SIGMA 3 IIOP OR DETECTS ANY ERRORS THEREIN. THE PROGRAM OPERATES EXCLUSIVELY WITH THE SIGMA 3 DIAGNOSTIC PROGRAM MONITOR AND REQUIRES THE USE OF A EXTENDED SUBCONTROLLER OF AN ASSOCIATIVE DEVICE OF THE IIOP. THE PROGRAM EXCLUSIVELY USES THE TEST MODE FEATURE OF THE SUBCONTROLLER, AND FOR COMPLETE TESTING, REQUIRES KEYBOARD INPUT. THE PROGRAM CONSISTS OF EIGHT BASIC TESTS AND ARE CONTROLLABLE FROM THE PROCESSOR CONTROL PANEL. NO DIRECTIVES ARE REQUIRED BY THE PROGRAM OTHER THAN THE BASIC LOAD DIRECTIVE. THE PRINT DEVICE IS NOT USED IN THIS PROGRAM FOR ERROR REPORTING. THE PROGRAM REPORTS ERROR FAULTS BY MEANS OF PROGRAM WAITS.
- 705718 SIGMA 2/3 DIAGNOSTIC - SYSTEM EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL EXERCISE THE SIGMA 2/3 AS A SYSTEM AND DETECT PORT PROBLEMS AND I/O DEVICE PROBLEMS. IT PERFORMS 100 PERCENT DATA CHECKING AND I/O DEVICE CHECKING AT THE COMPLETION OF EVERY OPERATION AND MAXIMUM DATA TRANSFER RATES ON ALL DEVICES.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 2 OR 3 WITH MINIMUM 8K OF MEMORY, A KSR/ASR, A CARD READER OR PAPER TAPE READER, MAGNETIC TAPE UNIT (OPTIONAL), MEDIUM SPEED RAD (OPTIONAL), AND LINE PRINTER (OPTIONAL).

- 705720 SIGMA 3 MANUFACTURING TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS A SIGMA 3 MANUFACTURING TEST PROGRAM FOR THE FOLLOWING TESTS, SINGLE CLOCK STEP TEST, SINGLE CLOCK EIOP TEST, CLOCK TIMING TEST AND INTERFACE TIMER TEST. THIS PROGRAM IS TO BE USED ONLY FOR SIGMA 3 MANUFACTURING TEST.
COMMENTS:
SIGMA 3 WITH 8K OF MEMORY, CARD READER OR PAPER TAPE READER.
- 705893 SIGMA 3 8150 MINI TEST
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF PRE-CHECKING THE MAJOR FUNCTIONS OF THE 8150 EXTERNAL MEMORY ADAPTER WITHOUT THE USE OF AN EXTERNAL SIGMA 5/7 MEMORY. THE TEST IS INTENDED PRIMARILY FOR ENGINEERING AND MANUFACTURING USE.
COMMENTS:
REQUIRED HARDWARE: 8K ONLY OF SIGMA 3 MEMORY, A PAPER TAPE READER OR CARD READER, AN 8150 EXTERNAL MEMORY ADAPTER AND A SPECIAL TEST CABLE.
- 705894 SIGMA 3 MEDIC 8150 (MEMORY DIAGNOSTIC FOR 8150)
AUTHOR: XDS - DATA SYSTEM DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE 8150 EXTERNAL MEMORY ADAPTER AND THE ATTACHED SIGMA 5/7 MEMORY.
COMMENTS:
REQUIRED HARDWARE: 8K TO 48K OF SIGMA 3 MEMORY, 4K TO 128K OF SIGMA 5/7 MEMORY, 8170 EXTERNAL INTERFACE FEATURE, A PAPER TAPE OR CARD READER AND 8150 EXTERNAL MEMORY ADAPTER. A KEYBOARD/PRINTER IS OPTIONAL.
- 706109 SIGMA 2/3 XPS-97 DIAGNOSTICS FOR SIGMA 3
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THIS PROGRAM CHECKS THE FUNCTIONS OF MODEL XPS-97. THE TEST AREAS INCLUDE ABORT INTERRUPT, STATUS CHECK, AND GENERAL DIRECT INPUT/OUTPUT OF THE XPS-97.
COMMENTS:
HARDWARE REQUIREMENTS: SIGMA 2/3 COMPUTER WITH TELETYPE AND 16K OF MEMORY, MODEL XPS-97.
- 706114 SIGMA 3 CES-34 DIAGNOSTIC PROGRAM
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
THIS PROGRAM TEST AND EXERCISE THE MODEL CES-34 COMMUNICATION CONTROLLERS BY MEANS OF A CLOSED-LOOP TURNAROUND TEST. THE PURPOSE OF THIS PROGRAM IS TO PROVIDE HARDWARE CHECKOUT AID AND DEMONSTRATE THE UNIT WHEN IT OPERATES WITH A SIGMA 3 COMPUTER. THIS PROGRAM OPERATES UNDER SIGMA 2/3 BASIC CONTROL MONITOR.
COMMENTS:
HARDWARE CONFIGURATION: SIGMA 3 COMPUTER, KEYBOARD PRINTER, EITHER CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, COUNTER 1 REAL-TIME CLOCK, AND MODEL CES-34 COMMUNICATION CONTROLLERS WITH FULL DUPLEX FEATURE.
- 706147 SIGMA 3 SIGMA 3 - CF16 INTERCOMMUNICATION DEMO
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO DEMONSTRATE MESSAGE TRANSMISSION FROM SIGMA 3 TO CF16 OR VICE VERSA. THIS PROGRAM INCLUDES THE DIAGNOSTIC PROGRAM MONITOR (DPM). THE SIGMA 3 - CF16 INTERCOMMUNICATION DEMO PROGRAM FOR CF16 COMPUTER, PROGRAM NO. 880089 MUST BE USED CONCURRENTLY.
COMMENTS:
HARDWARE CONFIGURATION: SIGMA 3 WITH TELETYPE, MODEL 7908 MINI-COMPUTER INTERFACE UNIT, CF16 WITH TELETYPE AND MODEL 0E15 COUPLER.
- 706172 SIGMA 2/3 7902 EXTENDED DEVICE SUBCONTROLLER DIAG.
AUTHOR: XEROX, DATA SYSTEMS DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7902 EXTENDED DEVICE SUBCONTROLLER. TESTS CONSIST OF EXECUTING THE I/O INSTRUCTIONS (SIO, TIO, TDV, AIO, HIO) AND LISTING ALL RESULTANT STATUS INFORMATION. LOOPING CAPABILITY IS PROVIDED TO ALLOW FOR MONITORING OF SIGNALS BY THE TEST ENGINEER.
COMMENTS:
MINIMUM HARDWARE CONFIGURATION IS AN 8K SIGMA 2/3, 7902 EDSC, TELETYPE, AND A CARD READER OR PAPER TAPE READER. A LINE PRINTER IS OPTIONAL. PROGRAM RUNS UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPM).
- 706238 SIGMA 2/3 SIGMA 3 - CF16 INTERCOMMUNICATION DEMO
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM GIVES A DEMO OF MESSAGE TRANSMISSION BETWEEN A SIGMA 3 AND A CF16.
COMMENTS:
HARDWARE REQUIREMENTS - SIGMA 2/3 WITH TELETYPE, MODEL 7930 OR 7935 SIU, CF16 WITH TELETYPE, MODEL 0E15. THIS PROGRAM MUST OPERATE IN CONJUNCTION WITH THE SIGMA 3-CF16 INTERCOMMUNICATION DEMO PROGRAM FOR CF16.

- 706447 SIGMA 2/3 PARAMETER PREPARATION ROUTINE (PPR)
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
CONVERTS SCU MODULE TEST INPUT PARAMETERS TO FORMATTED PAPER TAPE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
REQUIRES SIGMA 2/3 CAPABLE OF SUPPORTING RBM WITH AT LEAST ONE PAPER TAPE READER AND PUNCH.
- 706449 SIGMA 2/3 PAPER TAPE DUPLICATOR/VERIFIER
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE PROGRAM WILL INPUT SOURCE DATA FROM EITHER CARDS OR PAPER TAPE AND DUPLICATE IT ON PAPER TAPE. IT ALSO WILL VERIFY PAPER TAPE BY COMPARISON AGAINST THE SOURCE DATA. THE PROGRAM OPERATES UNDER RBM (FROM BACKGROUND) AND REQUIRES OPERATOR KEY-INS TO DIRECT ITS' FUNCTIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
PROGRAM REQUIRES MINIMUM RBM SYSTEM PLUS PAPER TAPE READER/PUNCH.
- 706451 SIGMA 2/3 TMS09B/XPS97 DIAGNOSTIC
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC IS USEFUL FOR FINAL ACCEPTANCE TESTING OF THE TMS09B ANALOG CONTROLLER WITH XPS97 DIRECT MEMORY INTERFACE. DUE TO ITS STATISTICAL ANALYSIS CAPABILITIES IN ADDITION TO ITS DIAGNOSTIC CAPABILITIES. THE DIAGNOSTIC, AS SUPPLIED IN ABSOLUTE FORM, INCLUDES THE DIAGNOSTIC PROGRAM MONITOR (DPM), AND THE DIAGNOSTIC PROGRAM LOADER (DPL), WHICH ARE NECESSARY TO ITS OPERATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
HARDWARE CONFIGURATION: SIGMA 2/3 WITH MINIMUM 20K WORDS OF MAIN MEMORY, KEYBOARD/PRINTER, PROGRAM INPUT DEVICE (CARD OR PAPER TAPE READER), XPS97 DIRECT MEMORY INTERFACE TMS09B ANALOG CONTROLLER, OPTIONAL LINE PRINTER. IOP MUST ACCESS X'0'-X'3FFF', XPS97 MUST ACCESS X'4000'-END OF USEABLE CORE. ACCESS OVERLAP IS ALLOWABLE. CORE AVAILABLE BEYOND XPS97 ACCESS MUST BE DISABLED.
- 706462 SIGMA 2/3-530 POTTER 3000/3300 PRINTER DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC ELEMENT IN THE LINE PRINTER (POTTER MODELS 3000 AND 3300). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. LOADING PROCEDURE IS DESCRIBED IN XEROX MANUAL #901850. INFORMATION RELEVANT TO OPERATION OF THE PROGRAM IS FOUND IN XEROX MANUAL #901755.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL. HARDWARE REQUIREMENTS ARE: A SIGMA 2, SIGMA 3, OR 530 CPU WITH 16K OF CORE MEMORY; A PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; A MESSAGE OUTPUT DEVICE: KSR, OR LINE PRINTER; AND THE POTTER LINE PRINTER (MODEL 3000 OR 3300) TO BE TESTED.
- 706468 SIGMA 2/3 7907 CLOSED LOOP DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE 7907 CLOSED LOOP DIAGNOSTIC TEST TWO 7907'S SIMULTANEOUSLY BY TRANSMITTING TEST DATA FROM ONE 7907 TO THE OTHER. PROGRAM PARAMETERS ARE DEFINED VIA SOLICITED OPERATOR KEY-INS ON THE TELETYPE. HARDWARE AND DATA TRANSMISSION ERRORS ARE REPORTED VIA THE TELETYPE OR CAN BE INHIBITED TO ALLOW ERROR LOOPING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
PROGRAM REQUIRES A SIGMA 2/3 WITH 16K MEMORY, TELETYPE, CARD READER AND TWO 7907'S.
- 706470 SIGMA 2/3 7908 CLOSED LOOP DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE 7908 CLOSED LOOP DIAGNOSTIC TESTS TWO 7908'S SIMULTANEOUSLY BY TRANSMITTING TEST DATA FROM ONE 7908 TO THE OTHER. PROGRAM PARAMETERS ARE DEFINED VIA SOLICITED OPERATOR KEY-INS ON THE TELETYPE. HARDWARE AND DATA TRANSMISSION ERRORS ARE REPORTED VIA THE TELETYPE OR CAN BE INHIBITED TO ALLOW ERROR LOOPING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.
PROGRAM REQUIRES A SIGMA 2/3 WITH 16K MEMORY, TELETYPE, CARD READER AND TWO 7908'S.
- 706476 SIGMA 2/3-530 2230/2440 LINE PRINTER
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 2230 AND 2440). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. PROGRAMS 720000-84A01 AND 705681-84D03 ARE REQUIRED TO LOAD AND EXECUTE THE

706476 CONTINUED ON FOLLOWING PAGE

706478

2230/2440 LINE PRINTER

(CONTINUED)

DIAGNOSTIC AS PER INSTRUCTIONS IN DPM MANUAL 901850.

COMMENTS:

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAONOSTIC. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN META-SYMBOL.

SIGMA 2/3 OR 530 WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC
TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.

REAL-TIME BATCH MONITOR (RBM)SYSTEM CATALOG NUMBER

705732

DESCRIPTION

RBM is a RAD-oriented monitor system providing concurrent real time and batch processing capabilities on a Sigma 5/7/9 hardware configuration. RBM consists of two assemblers - XEROX ASSEMBLY PROGRAM and MACRO-SYMBOL - as well as the Extended FORTRAN IV-H Compiler, SL-1 and the associated libraries and utilities. Also included is a System Generation routine which adapts RBM to a wide variety of Sigma 5/7/9 configurations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
705732	RBM Operating System
705776	Extended FORTRAN IV-H
705738	Extended FORTRAN (IV/IV-H Library)
705835	Extended Xerox FORTRAN IV
706459	Xerox Assembly Program
<u>Manuals</u>	<u>Description</u>
901581	Xerox Sigma Real-Time Batch Monitor Reference Manual
901647	Xerox Sigma Real-Time Batch Monitor Operations Manual
901653	Xerox Sigma Real-Time Batch Monitor User's Guide
900966	Xerox Sigma Extended FORTRAN IV-H Reference Manual
901144	Xerox Sigma Extended FORTRAN IV-H Operations Manual
900956	Xerox Sigma Extended FORTRAN IV Reference Manual
901143	Xerox Sigma Extended FORTRAN IV Operations Manual
903000	Xerox Assembly Prog Ref Manual

PROCESSORS AVAILABLE

<u>Catalog No.</u>	<u>Description</u>
706117	SL-1 *
* Program Product	
<u>Manuals</u>	<u>Description</u>
901676	Sigma 5/7 SL-1 Reference Manual

CONTROL PROGRAM-V** (CP-V) OPERATING SYSTEMSYSTEM CATALOG NUMBER

707000

DESCRIPTION

CP-V is an operating system that permits on-line time-sharing, remote and batch processing to operate efficiently. It is composed of the Monitor, control processors, language processors and utility subsystems. CP-V includes and makes available the familiar services of the Universal Timesharing System (UTS). Remote terminal users, while on-line to the system, can create, compile, execute and debug their individual programs concurrently with normal batch operations. The remote user is afforded access to all batch capabilities of the system via the capabilities of remote batch entry (through the remote batch terminal) or terminal batch entry (through on-line terminals). CP-V provides a real time capability for both mapped and unmapped programs. Mapped programs are known to the CP-V scheduler, have their interrupts connected (i.e., interrupts are received and initially processed by the monitor), and use monitor services in the same manner as the other programs. Unmapped real time programs are directly connected (i.e., interrupts go directly to the program and the monitor is unaware of the interrupt), and may use a set of monitor services by BAL linkage.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
707000	CP-V Operating System
706101	BASIC
706102	Sort/Merge
704428	Metasymbol
705001	Extended FORTRAN IV/IV-H Library (Compressed)
705820	Extended FORTRAN IV/IV-H Library
705835	Extended Xerox FORTRAN IV Compiler
706226	VOLINIT
704142	Stand-Alone Loader for VOLINIT

<u>Manuals</u>	<u>Description</u>
900907	Xerox CP-V TS Reference Manual
901675	Xerox CP-V OPS Reference Manual
901692	Xerox CP-V User's Guide
901674	Xerox CP-V SM Reference Manual
901764	Xerox CP-V BP Reference Manual
901546	Xerox BASIC Reference Manual
901790	Xerox Symbol Reference Manual
900956	Xerox Extended FORTRAN IV Reference Manual
901143	Xerox Extended FORTRAN IV Operations Manual
901677	Xerox FORTRAN Debug Package (FDP) Reference Manual
901199	Xerox Sort-Merge Reference Manual
900952	Xerox Sigma Meta-Symbol/Language, Operations Manual
901053	Xerox Sigma 5/7 S/A Systems/OPS Reference Manual
903060	Xerox ANS COBOL On-Line Debugger Reference Manual
903026	Xerox CP-V Remote Processing Manual
903056	Xerox Volume Initialization (VOLINIT) Technical Manual

PROCESSORS AVAILABLE

<u>Catalog No.</u>	<u>Description</u>
705783	Manage*
705888	ANS COBOL
705900	DMS*
706118	SL-1*
705819	FLAG
705865	CIRC-DC*
706112	CIRC-AC*
706253	CIRC-TR*
706412	TEXT
706434	APL
706419	RPG
706461	EXT DMS*
706459	AP

*Program Product

<u>Manuals</u>	<u>Description</u>
901500	Xerox ANS COBOL Reference Manual
901501	Xerox ANS COBOL Operations Manual
901610	Xerox Manage Reference Manual
903012	Extended DMS Reference Manual
901738	Xerox Sigma Data Management System (DMS)
903060	Xerox ANS COBOL On-Line Debugger Reference Manual Reference Manual
901676	Xerox SL-1 Reference Manual
901654	Xerox Sigma FLAG (FORTRAN LOAD AND GO) Reference Manual
901697	Xerox Sigma CIRC-DC Reference Manual
901698	Xerox Sigma CIRC-AC Reference Manual
901786	Xerox Sigma CIRC-Transient Reference Manual and Users' Guide
901851	Xerox TEXT LN/OPS Reference Manual
901873	Xerox EASY LN/OPS Reference Manual
901931	Xerox APL LN/OPS Reference Manual
901999	Xerox 5/9 RPG Report Program Generator Reference Manual
901995	Xerox CP-V Data Base TEchnical Manual

**Requires installation by Xerox personnel and post-installation support by trained local personnel.

BPM/BTM OPERATING SYSTEMSYSTEM CATALOG NUMBER

705000

DESCRIPTION

BPM provides users with a RAD-oriented operating system for efficient machine operation in a closed-shop, production environment. Provision is also made to accommodate priority real time processing on a concurrent basis, offering effective computer multi-usage. BPM controls all system resources and I/O activities for production jobs.

BTM operating system provides concurrent batch processing, time-sharing, and real time capabilities on Sigma 5/6/7/9. Composed of the Sigma 5/6/7/9 Batch Processing Monitor (BPM) plus a Terminal Executive program, language processors and utility subsystems, BTM allows multiple terminal users to operate concurrently with the batch processing service. These remote terminal users, while on-line to the system, can create, compile, execute and debug their individual programs concurrently with normal batch operations at the computer center. Using Terminal Batch Entry in conjunction with the symbiont version of BPM, the terminal user is afforded access to all capabilities of BPM.

Remote batch entry is available via the remote batch terminal.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS:

<u>Catalog No.</u>	<u>Description</u>
705000	BPM/BTM Operating System
705001	Extended FORTRAN IV-IVH Library (Compressed)
704159	Symbol
704428	Metasymbol
705851	Extended FORTRAN IV-H
705820	Extended FORTRAN IV-IVH Library
705835	Extended Xerox FORTRAN IV
705398	BTM BASIC
706102	Sort/Merge
<u>Manuals</u>	<u>Description</u>
900954	Xerox Sigma Batch Processing Monitor (BPM) Reference Manual
901577	Xerox Sigma Batch Time-Sharing Monitor (BTM) Reference Manual
901198	Xerox Sigma BPM/BTM Operations Manual
901783	Xerox Sigma Batch Processing Monitor (BPM) User's Guide
901679	Xerox Sigma Batch Time-Sharing Monitor (BTM) User's Guide
901790	Xerox Sigma Symbol Reference Manual
900956	Xerox Sigma Extended FORTRAN IV Reference Manual
901143	Xerox Sigma Extended FORTRAN IV Operations Manual
900966	Xerox Sigma Extended FORTRAN IV-H Reference Manual
901144	Xerox Sigma Extended FORTRAN IV-H Operations Manual
901677	Xerox Sigma FORTRAN Debug Package (FDP) Reference Manual
901546	Xerox Sigma BASIC Reference Manual
901199	Xerox Sigma Sort/Merge Reference Manual
900952	Xerox Sigma Meta-Symbol/Language, Operations Manual

PROCESSORS AVAILABLE

<u>Catalog No.</u>	<u>Description</u>
705783	Manage *
705819	FLAG
705831	FMPS *
705832	GAMMA3 *
705865	CIRC-DC *
705888	ANS COBOL
705900	DMS *
706112	CIRC-AC *
706118	SL-1 *
706130	GPDS *
706253	CIRC-TR *
706419	RPG

* Program Product

<u>Manuals</u>	<u>Description</u>
901610	Xerox Sigma Manage Reference Manual
901654	Xerox Sigma FLAG Reference Manual
901609	Xerox Sigma Functional Mathematical Programming System Reference Manual
901705	Xerox Sigma GAMMA3 Reference Manual
901697	Xerox Sigma CIRC-DC Reference Manual
901500	Xerox Sigma ANS COBOL Reference Manual
901501	Xerox Sigma ANS COBOL (BPM) Operations Manual
901738	Xerox Sigma Data Management System (DMS) Reference Manual
901698	Xerox Sigma CIRC-AC Reference Manual
901676	Xerox Sigma SL-1 Reference Manual
901758	Xerox Sigma General Purpose Discrete Simulator Reference Manual
901786	Xerox Sigma CIRC-Transient Reference Manual and User's Guide
901999	Xerox Sigma RPG Reference Manual

CONTROL PROGRAM FOR REAL TIME (CP-R)

SYSTEM CATALOG NUMBER

708000

DESCRIPTION

CP-R is a disk-oriented operating system providing concurrent multi-programmed real-time and batch processing capabilities in a virtual/real memory environment on a Sigma 9 hardware configuration. CP-R consists of three assemblers -- SYMBOL, and AP -- as well as the Extended FORTRAN IV-H and FORTRAN IV Compilers, SL-1 and the associated libraries and utilities. Also included is a System Generation routine which adapts CP-R to a wide variety of Sigma 9 configurations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
708000	CPR Operating System
705776	Extended FORTRAN IV-H
705738	Extended FORTRAN IV-H Library
705835	Extended Xerox FORTRAN IV
706459	Xerox Assembly Program
706467	Xerox Sigma 9 CP-R Error Lister
706226	Xerox Sigma 9 CP-R VOLINIT
<u>Manuals</u>	<u>Description</u>
903085	Xerox Sigma Real-Time Batch Monitor Reference Manual
903086	Xerox Sigma Real-Time Batch Monitor Operations Manual
903087	Xerox Sigma Real-Time Batch Monitor User's Guide
903088	Xerox Sigma 9 CP-R Technical Manual
901790	Xerox Sigma Symbol Reference Manual
900966	Xerox Sigma Extended FORTRAN IV-H Reference Manual
901144	Xerox Sigma Extended FORTRAN IV-H Operations Manual
900956	Xerox Sigma Extended FORTRAN IV-H Reference Manual
901143	Xerox Sigma Extended FORTRAN IV Operations Manual
903000	Xerox Assembly Prog Ref Manual

PROCESSORS AVAILABLE

<u>Catalog No.</u>	<u>Description</u>
706117	SL-1 *
* Program Product	
<u>Manuals</u>	<u>Description</u>
901676	Sigma 5/7 SL-1 Reference Manual

XEROX SIGMA 5/7 BASIC CONTROL MONITOR (BCM)SYSTEM CATALOG NUMBER

704144

DESCRIPTION

BCM provides Sigma 5/7 users with a paper tape or card operating environment, accenting multi-use capability. Sigma 5/7 computer system can service real time foreground jobs concurrently with lower priority background tasks. Job assemblies, compilation, and execution run simultaneously while processing a real time foreground task. Paper tape version occupies 3.0K minimum resident core storage (residence includes I/O handlers for paper tape and teletype only). Card version occupies 3.5K core storage and allows magnetic tape I/O operations.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
704144	Basic Control Monitor
705850	Extended FORTRAN IVH
705821	Extended FORTRAN IVH Library
704158	Symbol

<u>Manuals</u>	<u>Description</u>
900953	Xerox Sigma Basic Control Monitor Reference Manual
901790	Xerox Sigma Symbol Reference Manual
900966	Xerox Sigma Extended FORTRAN IV-H Reference Manual
901144	Xerox Sigma Extended FORTRAN IV-H Operations Manual

EXTENDED XEROX FORTRAN IVCATALOG NUMBER

705835 (RBM/BPM/BTM/CP-V)

DESCRIPTION

Extended Xerox FORTRAN IV reads the Xerox FORTRAN IV source language and produces standard Xerox binary output. It has real-time capability (generation of reentrant code), some code optimization and a conversational FORTRAN debug package (FDP).

<u>Manuals</u>	<u>Description</u>
900956	Sigma Extended FORTRAN IV Reference Manual
901143	Sigma Extended FORTRAN IV Operations Manual
901677	Xerox Sigma FORTRAN Debug Package (FDP) Reference Manual

ASSOCIATED LIBRARYEXTENDED FORTRAN IV/IV-H LIBRARY

The Sigma 5/6/7 Extended FORTRAN library is used by Xerox Extended FORTRAN IV and Extended FORTRAN IV-H programs running under several operating systems. The salient catalog numbers are listed below. All libraries are created from one set of compressed ROMS.

	<u>Catalog No.</u>
1. Basic Control Monitor (BCM)	705821
2. Batch Processing Monitor (BPM)	705820
3. Batch Time-Sharing Monitor (BTM)	705820
4. Real-Time Batch Monitor (RBM)	705738
5. Control Program V (CP-V)	705820
6. Extended Fortran IV/IVH Combined Compressed Tape	705001

Special real-time versions of the library are available for use with the BPM and RBM monitors when real-time processing is required.

One version of the library is provided for use with BPM and BTM in the batch and on-line environments respectively and for use with CP-V. This library contains the FORTRAN Debug Package (FDP) for use in debugging FORTRAN IV and IV-H on-line and batch programs.

All versions are contained in the release issued by the operating system.

<u>Manuals</u>	<u>Description</u>
901524	Xerox Sigma 5/9 Extended FORTRAN Library Technical Manual
900906	Xerox Sigma 5/9 Mathematical Routines Technical Manual
903114	Xerox Sigma 5/9 Extended FORTRAN IV Compiler Technical Manual

Technical manuals are only available by special order through Publications.

EXTENDED FORTRAN IV-HCATALOG NUMBER

705776 (RBM)
705850 (BCM)
705851 (BPM/BTM)

DESCRIPTION

FORTRAN IV-H is a one-pass compiler that is designed for maximum compatibility with both ASA Standard FORTRAN and IBM 360 H-Level FORTRAN IV. It reads the source program only once and simultaneously generates the object program in a form acceptable to the object module loader under BCM, RBM, BPM or BTM.

<u>Manuals</u>	<u>Description</u>
901144	Sigma Extended FORTRAN IV-H Operations Manual
900966	Sigma Extended FORTRAN IV-H Reference Manual
901677	Xerox FORTRAN Debug Package (FDP) Reference Manual

ASSOCIATED LIBRARYEXTENDED FORTRAN IV/IV-H

The Sigma 5/6/7 Extended FORTRAN library is used by Xerox Extended FORTRAN IV and Extended FORTRAN IV-H programs running under several operating systems. The salient catalog numbers are listed below. All libraries are created from one set of compressed ROMS.

	<u>Catalog No.</u>
1. Basic Control Monitor (BCM)	705821
2. Batch Processing Monitor (BPM)	705820
3. Batch Time-Sharing Monitor (BTM)	705820
4. Real-Time Batch Monitor (RBM)	705738
5. Extended FORTRAN IV/IV-H Library Combined Compressed Tape	705001

Special real-time versions of the library are available for use with the BPM and RBM monitors when real-time processing is required.

One version of the library is provided for use with BPM and BTM in the batch and on-line environments respectively. This library contains the FORTRAN Debug Package (FDP) for use in debugging FORTRAN IV and IV-H on-line and batch programs.

<u>Manuals</u>	<u>Description</u>
901524	Xerox Sigma Extended FORTRAN Library Technical Manual
900906	Xerox Sigma Mathematical Routines Technical Manual

Technical manuals are only available by special order through Publications.

SIGMA 5/7 STAND ALONESYSTEM CATALOG NUMBER

704142

DESCRIPTION

The S/A Monitor assists users in exercising control of a Sigma 5/7 minimum hardware configuration. It provides centralized I/O services for symbolic data files. The user will find an absolute bootstrap loader generator, an assembler, an I/O package, a trap handler, instruction simulators, two loaders, various utility routines and a powerful debugging package available to him.

ELEMENTS NECESSARY FOR NORMAL REQUIREMENTS

<u>Catalog No.</u>	<u>Description</u>
704160	Sigma 5/7 Stand-Alone Symbol Assembler
704142	Sigma 5/7 Stand-Alone Loader With I/O Handlers
704155	Sigma 5/7 Stand-Alone ABS Dumping Loader With I/O Handlers
704397	Sigma 5/7 Utility Routines
704357	Basic Source Tape (Includes: 704145 - ABS - Bootstrap Loader Generator 704127 - BCM/SA Common Software Package)
<u>Manuals</u>	<u>Description</u>
901053	Xerox Sigma 5/7 Stand-Alone Systems Operations Manual
901790	Xerox Sigma 5/7 Symbol Reference Manual
900953	Xerox Sigma 5/7 Basic Control Monitor Reference Manual

FLAGCATALOG NUMBER

705819

DESCRIPTION

FLAG (FORTRAN LOAD AND GO) is a one-pass, in core FORTRAN compiler, compatible with FORTRAN IV-H that uses the FORTRAN IV library. FLAG has the FORTRAN IV capabilities of FORMAT statements and specifications, extended input/output and most of the function sub-programs that are available to FORTRAN IV users.

It may be used in preference to standard FORTRAN compilers when users are in the debugging phase of developing programs. It will yield a significant reduction of total processing time when used with small to medium sized programs.

ManualsDescription

901654

Sigma 5/9 FLAG Reference Manual

ASSOCIATED LIBRARYEXTENDED FORTRAN IV/IV-H LIBRARY

The Sigma 5/6/7 Extended FORTRAN library is used by FLAG program running under BPM and CP-V. The FLAG library is actually an intergral part of the FLAG compiler. The customer need order only catalog No. 705819.

Catalog

- | | |
|-----------------------------------|--------|
| 1. Batch Processing Monitor (BPM) | 705820 |
| 2. Control Program V (CP-V) | 705820 |

GPDSCATALOG NO

706130

DESCRIPTION

General Purpose Discrete Simulator system is a transaction-oriented simulation language which uses commands selected to enable the user to build models directly from logical flowcharts of the system to be modeled. GPDS is fully compatible with IBM GPSS/360. Enhancements include the ability to store blocks, parameters and matrices on a RAD and automatically swap them in as needed. GPDS also has direct Fortran and Cobol interfaces and an expended ability to indirectly reference all system entities.

ManualsDescription

901758

Xerox Sigma General Purpose Discrete Simulator Reference Manual

ANS COBOLCATALOG NUMBER

705888 (BPM/BTM, CP-V)

DESCRIPTION

Xerox ANS COBOL Compiler is a full implementation (DOD Subset D) of the COBOL language as defined by the ANS COBOL Standard. The modules defined by the standard and implemented in this compiler are: Nucleus, Table Handling, Sequent Access, Random Access, Sort, Report, Writer, Segmentation and Library. In addition, the following features and modules have been implemented from the proposed 1973 ANS Standard. In Nucleus, Inspect String, Unstring, all of the debug module and level 1 of the Inter-program Communication Module (Linkage Section, Call, Using, Procedure Devision Using).

ManualsDescription

901500

Sigma ANS COBOL Reference Manual

901501

Sigma ANS COBOL Operations Manual

CATALOG NUMBER

706102 (BPM/BTM)

DESCRIPTION

These programs provide the user with generalized file sorting and merging capability.

Files may be ANS, Xerox Monitor or user formatted and may be fixed or variable length, blocked or unblocked. Up to sixteen key fields can be used for sorting and merging in ascending and/or descending sequence. Sort can efficiently utilize Tape, Disk or a mixture of both for storage of intermediate work files. A replacement selection tournament technique is used for sorting. The merging algorithm (of the Sort) varies according to the type of intermediate storage. If all intermediate storage is assigned to random storage, the random technique is invoked.

ManualsDescription

901199

Sigma Sort/Merge Reference Manual

XEROX ASSEMBLY PROGRAM (AP)

Catalog Number

706459 (RBM)

Description

Xerox Assembly Program is a high speed low core, Assembler with capability between the obsolete Macro-Symbol and Meta-Symbol Assemblers.

Manuals

Description

903000

Xerox Assembly Program Reference Manual

XEROX APLCATALOG NO.

706434 (CP-V)

DESCRIPTION

Xerox APL is an implementation of the programming language invented by Kenneth Iverson and most familiar in the form of APL/360. The Xerox implementation is a compatible superset of APL/360 and incorporates improvements not generally found in other implementations. APL is an interpretive, time-sharing, problem-solving language. It includes an extended character set and a powerful set of operators which allow APL programming to be very concise as compared with other languages. APL is finding rapidly increasing acceptance by a wide range of user types, including universities, engineering establishments, and business operations.

Enhancements of Xerox APL over APL/360 are extensive and are summarized in the Introduction section of the Xerox APL Reference Manual.

ManualsDescription

901931

Xerox APL Language and Operations Reference Manual

TEXTCATALOG NUMBER

706412

DESCRIPTION

Xerox TEXT is an on-line document creation and editing system that provides the capability to create, edit, store, and print documents through remote terminals operating under control of the CP-V Operating System. The TEXT command language is logical and simple, and is oriented towards the non-programmer. Secretaries, the technical writers, and others not familiar with computers can learn to use TEXT in a short period of time.

TEXT runs as a shared processor in the on-line mode under the CP-V Operating System.

ManualsDescription

901851

Xerox TEXT Language and Operating Reference Manual

EXTENDED DATA MANAGEMENT SYSTEM (EDMS)CATALOG NUMBER

706461

DESCRIPTION

Xerox EDMS is a generalized Data Management System for Sigma computers. It provides for the integration of data from separate areas of a business into a common database. A database may be subdivided into as many as 64 segments thus potentiall reducing the computer resources required as only those segments that are to be accessed, need be available to EDMS. Programs that access the database may be written in COBOL, FORTRAN or METASYMBOL and need only contain a description of those portions of the database that they will access.

EDMS consists of a file definition processor, four utility processors and a run-time library. All may be executed in either batch or on-line mode. The run-time library may be structured as a shared library. Thus, reducing core requirements for application programs.

ManualsDescription

903012

Xerox Extended Data Management System Reference Manual

PROCESSORS AVAILABLECatalog No.Description

706466 (CP-V)

Interactive Database Processor (IDP)

706498 (CP-V)

EDMS Restructuring Processor (DMSREST)

ManualsDescription

903066

Xerox Interactive Database Processor Language and Operations
Reference Manual

903012

Xerox Extended Data Management System Reference Manual

CIRC-ACCATALOG NUMBER

706112

DESCRIPTION

CIRC-AC is a computer program for AC (frequency domain) analysis of electronic circuits. The program handles both passive and active components, and includes a stored transistor model. Tentative circuit designs can be evaluated over an automatically scanned frequency range. The program also performs open-loop analyses with proper loading handled automatically. The entire AC analysis can be iterated over various circuit parameter values. A flexible line printer plotting routine, which provides plotted as well as tabular output, is also provided.

ManualsDescription

901698

Xerox Sigma CIRC-AC Reference Manual

NOTE: This processor is a Program Product.

CIRC-DCCATALOG NUMBER

705865

DESCRIPTION

CIRC-DC provides nominal, sensitivity and automatic worst case analysis for electronic circuits. The program is structured to operate in one of three basic modes: batch processing under BPM, BTM, or CP-V; terminal batch entry under BTM or CP-V; conversational under the CP-V or run subsystem of BTM. The salient features of CIRC-DC include a complete program-user interaction, stored models for all circuit elements, non-linear models for transistors and diodes and dynamic memory allocation to take advantage of various memory configurations.

ManualsDescription

901697

Xerox Sigma CIRC-DC Reference Manual

NOTE: This processor is a Program Product.

CIRC-TRCATALOG NUMBER

706253

DESCRIPTION

CIRC-TR provides general purpose time-domain analysis of electronic circuits. The program runs in the Batch or Conversational modes under BTM or CP-V and in batch mode under BPM, BTM, or CP-V. It includes many advanced computer-aided design features such as sparse matrix and implicit integration numerical techniques, stored non-linear models for all circuit elements and highly conversational user program.

ManualsDescription

901786

Xerox Sigma CIRC-Transient Reference Manual and Users' Guide

NOTE: This processor is a Program Product.

MANAGECATALOG NUMBER

705783

DESCRIPTION

Manage is a generalized file management system expressly designed to aid corporate decision making. It provides a simplified method for using a computer to establish and maintain vital company records on magnetic tapes or mass storage devices, selectively retrieve data from those records and generate printed reports or files for additional computer processing. This catalog number includes both Manage and TOM (Terminal Oriented Manage).

ManualsDescription

901610

Sigma 5/6/7 Manage Reference Manual

NOTE: This processor is a no cost Program Product.

METASYMBOLCATALOG NUMBER

704428 (BPM/BTM/CP-V)

DESCRIPTION

The META-SYMBOL assembler accepts symbol statements written in the META-SYMBOL language, assembles them, and generates an object program in Xerox SIGMA Standard Object Language and, optionally, a program listing. META-SYMBOL operates as a background processor under BPM/BTM or as a shared processor under the CP-V Operating System.

ManualsDescription

900952

Xerox META-SYMBOL/LN, OPS Reference Manual

SL-1CATALOG NUMBER

706117 (RBM)

706118 (BPM/BTM/CP-V)

DESCRIPTION

SL-1 is a simplified, problem-oriented digital programming language designed specifically for digital or hybrid simulation. SL-1 is a superset of CSSL (Continuous System Simulation Language), the standard language specified by Simulation-Councils, Inc., for simulation of continuous systems. SL-1 exceeds CSSL capabilities and other existing simulation languages by providing hybrid and real time features, interactive debugging features and a powerful set of conditional translation features.

The SL-1 translator reads SL-1 source programs and converts them to FORTRAN programs for compilation under either the Xerox Extended FORTRAN IV or FORTRAN IV-H compiler. The program also includes a routine library which must be searched, along with the Extended FORTRAN library, to satisfy external references generated by the translator. The processor may be run in batch mode under RBM, BPM, CP-V or on-line from a time-sharing terminal under BTM or CP-V.

ManualsDescription

901676

Sigma SL-1 Reference Manual

NOTE: This processor is a Program Product.

FMPSCATALOG NUMBER

705831 (BPM/BTM)

DESCRIPTION

FMPS is a mathematical technique designed to help management analyze the potentialities of alternate business activities and to choose those that permit the best use of resources in the pursuit of a desirable objective. It includes the following features: a simple, yet flexible control language, flexible I/O, combination FORTRAN/METASYMBOL for improved efficiency, along with other powerful features expected in a third generation linear programming system. These features include parametric procedures and separable programming. FMPS runs in the batch mode under BPM or BTM.

ManualsDescription

901609

Xerox Sigma 5/7 Functional Mathematical Programming
System Reference Manual

NOTE: This processor is a Program Product.

GAMMA 3CATALOG NUMBER

705832 (BPM/BTM)

DESCRIPTION

GAMMA 3 is a powerful matrix generator and report writer program to be used in conjunction with Xerox FMPS. GAMMA 3 provides the capability to construct a linear programming matrix (in the form required by FMPS) from problem oriented input statements and the preparation of management oriented reports on the solution to an FMPS problem with full titles. It is particularly useful when the problem variables change frequently, requiring the generation of a new FMPS input matrix and LP solution for each change. GAMMA 3 allows for automatic changes to matrix data and LP solution for each change. GAMMA 3 allows for automatic changes to matrix data and report data as a consequence of altered input data. GAMMA 3 runs in the batch mode under BPM or BTM.

ManualsDescription

901705

Xerox Sigma 5/7 GAMMA 3 Reference Manual

NOTE: This processor is a Program Product.

BASICCATALOG NUMBER

705398 (BPM/BTM)
706101 (CP-V)

DESCRIPTION

The BASIC Compiler is a one pass compiler that reads Xerox BASIC statements, compiles them to core, and if no compilation errors were found, executes them. The BASIC compiler produces no binary output. Xerox BASIC is a superset of the original DARTMOUTH BASIC. In addition, an enhanced MATH LIBRARY is provided which includes MATRIX handling capability. Also, implicit character string constants are permitted. SUBROUTINE capability is available, and a file I/O capability is provided.

<u>Manuals</u>	<u>Description</u>
901546	Sigma 5/7 BASIC Reference Manual

SYMBOLCATALOG NUMBER

704158 (BCM)
704159 (BPM)
705399 (BTM)
705846 (RBM)

DESCRIPTION

The SYMBOL assembler is the one pass assembler which operates as a stand-alone assembler or under the BCM, RBM, BPM and BTM operating systems. It reads SYMBOL source language programs and converts them to machine language (object) programs. Its binary output may be loaded by any of the one pass relocatable loaders.

<u>Manuals</u>	<u>Description</u>
901790	Xerox Symbol/LN, OPS Reference Manual

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
'HELP'...	UTILITY PACKAGE	890544	B3	ANALOG INPUT DIAGNOSTIC...	ARGONNE HI-LEVEL	705868	B3
A*B*C - DESIGN ANALYSIS...		890435	B3	ANALOG INPUT DIAGNOSTIC...	ARGONNE LO-LEVEL	705867	B3
A*B*S ANAL. OF VARIANCE...		890436	B3	ANALOG INPUT SUBSYSTEM...	PURDUE SPECIAL	704341	B3
A*S ANAL. OF VARIANCE HIGH SPEED...	ANOVA - AC...CIRC-	890437	B3	ANALOG SIU DIAGNOSTIC PROGRAM...	ADS-10	705867	B1
ACADEMIC STATISTICS LISTINGS...	ACST1 NON-ACCEPTANCE TESTS FOR LTV...	890646	B3	ANALYSIS (ELLA)...	CP-V/CP-R ERROR LOG LIST	708006	B1
ACCOUNTING SYSTEM SUMMARY PROC.		706112	A1	ANALYSIS (PRINCIPLE COMPONENTS)...	FACTOR	890460	B3
ACCOUNTS PAYABLE CHECK REGISTER (DP0118)...		705367	B3	ANALYSIS - CP5A...	CANONICAL	890450	B3
ACCOUNTS PAYABLE CHECKS (DP0120)...		890787	B3	ANALYSIS ; HIERARCHICAL GROUPING...	CLUSTER	890472	B3
ACCOUNTS PAYABLE SYSTEM (COVER)...		705689	B3	ANALYSIS OF VARIANCE...	A*B*S	890436	B3
ACCOUNTS PAYABLE TOTALS (DP0112)...	YEARLY	890624	B3	ANALYSIS OF VARIANCE...	ANOVA - GENERALIZED	890440	B3
ACCOUNTS PAYABLE VENDOR LABELS (DP0113)...		890625	B3	ANALYSIS OF VARIANCE...	INTERACTIVE	890839	B3
ACCOUNTS RECEIVABLE (DP0911)...	BOOKSTORE	890620	B3	ANALYSIS OF VARIANCE...	LINDQUIST TYPE IV	890444	B3
ACCOUNTS RECEIVABLE BILLING-DP0721...		890621	B3	ANALYSIS PROGRAM...	1620 ELECTRONIC CIRCUIT	890667	B3
ACCOUNTS RECEIVABLE SYSTEM (COVER)...		890622	B3	ANALYSIS WITH ROTATION...	FACTOR	890465	B3
ACCOUNTS RECEIVABLE TRIAL BALANCE-DP0716...		890630	B3	ANALYSIS...	A*B*C - DESIGN	890435	B3
ACCRUED PAYABLES (DP0115)...	DUE DATE	890628	B3	ANALYSIS...	CROSS CLASSIFICATION	890456	B3
ACQUISITION PROGRAM...	PCH DATA	890626	B3	ANALYSIS...	DISTRIBUTION	890457	B3
ACST1 NON-ACADEMIC STATISTICS LISTINGS...		890627	B3	ANALYSIS...	FRIEDMAN TWO-WAY	890429	B3
ACST10 GRADE POINT AVERAGE LISTINGS...		890623	B3	ANALYSIS...	INTERACTIVE MULTIPLE REGRESSION	890666	B3
ACST12 GEOGRAPHICAL DISTRIBUTION SUMM....		705656	B3	ANALYSIS...	ITEM	890473	B3
ACST2 FINAL GRADE REPORTS...		890646	B3	ANALYSIS...	MULTIPLE CLASSIFICATION	890474	B3
ACST3 CLASS ROSTERS...		890652	B3	ANALYSIS...	MULTIPLE DISCRIMINANT	890475	B3
ACST32 COURSE CONFLICTS...		890653	B3	ANALYSIS...	MULTIPLE REGRESSION	890476	B3
ACST33 LANGUAGE LAB FILE MAINTENANCE...		890647	B3	ANALYSIS, STEPWISE...	MULTIPLE REGRESSION	890477	B3
ACST34 LANGUAGE LAB WEEKLY REPORT...		890648	B3	ANALYZER PROGRAM (EAP)...	EXECUTION	890750	B3
ACST4 HEAT TRANSFER STUDENT MASTER...		890654	B3	ANOVA - A*S ANAL. OF VARIANCE HIGH SPEED..		890437	B3
ACST5 CLASS SCHEDULES...		890655	B3	ANOVA - CONVARIANCE...		890438	B3
ACST7 PERMANENT RECORDS...		890656	B3	ANOVA - GENERAL BALANCE DESIGNS...		890439	B3
ACTIVITIES TOTALS...	ADMIS21-APPLICANT ACTIVITY INTEREST ADDRESSES...	890654	B3	ANOVA - GENERALIZED ANALYSIS OF VARIANCE..		890440	B3
ADAPT - NUMERICAL CONTROL PROGRAM...		890651	B3	ANOVA - LINDQUIST TYPE III EXTENDED...		890443	B3
ADC ACCEPTANCE TESTS FOR LTV...	PAM-PDM + ADC HIGH LEVEL ROUTINES (ADCHIGH)...	890692	B3	ANOVA - LINDQUIST TYPE III...		890442	B3
ADC HIGH LEVEL ROUTINES (ADCHIGH)...		890693	B3	ANOVA-LINDQUIST TYPE I ANAL. OF VARIANCE..		890441	B3
ADC LOW LEVEL ROUTINES (ADCLOW)...		890747	B3	ANS COBOL COMPILER...	XEROX	705868	B1
ADCHIGH)...	ADC HIGH LEVEL ROUTINES (ADCLOW)...	705367	B3	AP)...	XEROX ASSEMBLY PROGRAM (	708459	B1
ADD SEQUENTIAL SUBROUTINE...	COBOL	706231	B3	APAM LIBRARIAN...		890753	B3
ADDRESS TAPE...	ALUM5 HEAT TRANSFER ADDRESSES...	706232	B3	APEXCLP...		890894	B3
ADMISSION FILE...	ADMIS6-LOAD AND UPDATE	706231	B3	APL COURSE...	APL LEARNING AID - CLASS,	890929	B3
ADMISSIONS SYSTEM FOR SCHOOL ENROLLMENT...		706232	B3	APL FILE CONVERTER...	IBM-XEROX	890832	B3
ADMIS1-RECEIPT FORM...		890604	B3	APL LEARNING AID - CLASS, APL COURSE...		890829	B3
ADMIS10-ALUMNI CHILDREN LIST...		890643	B3	APL WORKSPACE CONVERTER...	IBM-XEROX	890831	B3
ADMIS11-APPLICANT PROFILE SHEET...		890693	B3	APL...DREV		890718	B3
ADMIS13-WEEKLY DISTRIBUTION...		890693	B3	APL...XEROX		708434	B1
ADMIS14-HIGH SCHOOL LIST...		890682	B3	APL...XEROX/COAST CAL/		890813	B3
ADMIS15-SELECTIVE ENVELOPES/LABELS...		890677	B3	APPLICANT ACTIVITIES TOTALS...	ADMIS21-	890892	B3
ADMIS16-SELECTIVE LISTINGS...		890678	B3	APPLICANT ENVELOPES...	ADMIS3-	890680	B3
ADMIS17-SHORT WEEKLY REPORTS...		890683	B3	APPLICANT PROFILE SHEET...	ADMIS11-	890684	B3
ADMIS19-STATISTICS BY STATE...		890684	B3	APS) SYS...	AUTOMATED PROCUREMENT STATUS (	890895	B3
ADMIS2-FILE FOLDER LABELS...		890685	B3	APTS (LEVEL 3) LATHE POSTPROCESSOR...		891000	B3
ADMIS20-PROFILE BY SAT AND RANK...		890686	B3	APTS (LEVEL 3)...		890749	B3
ADMIS21-APPLICANT ACTIVITIES TOTALS...		890687	B3	ARDS DISPLAY TEST...		708234	B3
ADMIS22-ACTIVITY INTEREST ADDRESSES...		890688	B3	ARGONNE HI-LEVEL ANALOG INPUT DIAGNOSTIC...		705868	B3
ADMIS25-FINANCIAL NEED MATRICES...		890689	B3	ARGONNE LO-LEVEL ANALOG INPUT DIAGNOSTIC...		705867	B3
ADMIS26-FAMILY INCOME CHART...		890689	B3	ARRAY GENERATOR (TEXTAR)...	BASIC TEXT	708111	B3
ADMIS27-SELECTIVE COMPRESSED RECORDS...		890690	B3	ARRAYS...	DEMAND PAGED FORTRAN	890881	B3
ADMIS3-APPLICANT ENVELOPES...		890679	B3	ASR/KSR)...	KEYBOARD PRINTER TEST (	705651	B1
ADMIS5-HIGH SCHOOL COUNSELOR ENVELOPE...		890691	B3	ASSEMBLER (RBM VERSION)...	SYMBOL	705646	B1
ADMIS6-LOAD AND UPDATE ADMISSION FILE...		890692	B3	ASSEMBLER (COVER)...	META-SYMBOL	704428	B1
ADS 10 DIAGNOSTIC...	7915/	890693	B3	ASSEMBLER FOR BCM...	SYMBOL	704158	B1
ADS-10 AIC...	HANDLER FOR 7915/	890695	B3	ASSEMBLER FOR BPH/BTM...	SYMBOL	704159	B1
ADS-10 ANALOG SIU DIAGNOSTIC PROGRAM...		890696	B3	ASSEMBLER LIBRARY ROUTINES...	SCU	880626	B3
AIC...	HANDLER FOR 7915/ADS-10	890680	B3	ASSEMBLER...	RBM MACRO-SYMBOL	705781	B3
AID - CLASS, APL COURSE...	APL LEARNING AID AND READINESS TEST (CART)...	890681	B3	ASSEMBLER...	SIGMA 2 BASIC SYMBOL	890672	B3
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AID)...	AUTOMATIC INTERACTION DETECTION (AID-CHECKER)...	706205	B3	ASSEMBLER/INTERPRETER SYSTEM...	MIX	890715	B3
ALGEBRAIC LANGUAGE...	CAL-CONVERSATIONAL ALGOL 60...EXTENDED	890447	B3	ASSEMBLY OF SIGMA 2 PROG...	PROCEDURES FOR	890615	B3
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ALTRAN RUN-TIME ROUTINES...		890711	B3	ATAK...	PRINT/COPY UTILITY -	708119	B3
ALUMNI CHILDREN LIST...	ADMIS10-	890750	B3	ATP FOR DATA RECORDING AND TIMING SYSTEM..		705675	B1
ALUMNI SYSTEM...		705762	B3	AUTO BOOT...	SYSTEM DISC DUMP/RESTORE/	890734	B3
ALUMNI UPDATING... ALUMI		890846	B3	AUTO DIAL DIAGNOSTIC PROGRAM...		704074	B1
ALUMI ALUMNI UPDATING...		890683	B3	AUTO SCHEDULE...		890954	B3
ALUM2 LONG FORM DIRECTORY...		890634	B3	AUTO...CPU DIAGNOSTIC -		704287	B3
ALUM3 CLASS DIRECTORY...		890635	B3	AUTO...INSTRUCTION DIAGNOSTIC -		730000	B1
ALUM4 SELECTIVE ALUMNI...		890642	B3	AUTO)...CPU DIAGNOSTIC (		708133	B1
ALUM5 HEAT TRANSFER ADDRESS TAPE...		890643	B3	AUTO)...CPU DIAGNOSTIC SYSTEM (		704044	B3
ANAL. OF VARIANCE HIGH SPEED...	ANOVA - A*S	890643	B3	AUTO-B CROSS-LAG INTERCORRELATION...		890446	B3
ANAL. OF VARIANCE...	ANOVA-LINDQUIST TYPE I	890437	B3	AUTOMATED MEDICAL HISTORY PROGRAM...		890724	B3
ANAL. OF VARIANCE...	LINDQUIST TYPE EXT.	890441	B3	AUTOMATED PROCUREMENT STATUS (APS) SYS....		890895	B3
ANALEX LINE PRINTER TEST...	95-CHARACTER	890445	B3	AUTOMATIC INTERACTION DETECTION (AID)...		890447	B3
ANALYZER FOR BPM...	STAND-ALONE ERROR LOG	705731	B1	AVERAGE LISTINGS...	ACST10 GRADE POINT	890652	B3
ANALOG DIGITAL SIMULATION PROGRAM...		705677	B1	AXB LEAST SQUARES...		890434	B3
		890561	B3	BADGE READER DIAGNOSTIC PROGRAM...		705663	B3
				BALANCE (DP0917)...	BOOKSTORE TRIAL	890633	B3
				BALANCE DESIGNS...	ANOVA - GENERAL	890439	B3
				BALANCE DP0215...	DISTRIBUTION LEDGER TRIAL	890592	B3
				BALANCE-DP0716...	ACCOUNTS RECEIVABLE TRIAL	890627	B3
				BALL MODEL XPS-95 DEMO PROGRAM...	NASA/	705843	B3
				BALL MODEL XPS-95 HANDLER...	NASA/	705818	B3
				BASIC BCM ABS DUMP LOADER...		704146	B1
				BASIC COMPILER...	BPM/BTM	705398	B1
				BASIC CONCORDANCE...		708292	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
BASIC SOFTWARE	MAGNETIC TAPES...	704357	B1	CARD LISTER...	BATCH STREAM	890714	B3
BASIC SYMBOL ASSEMBLER...	SIGMA 2	890872	B3	CARD PUNCH EXERCISER (CP-R)...	CARD READER/	788003	B1
BASIC TEXT ARRAY GENERATOR (TEXTAR)...		708111	B3	CARD READER SYMB. START...BPM SELF SCARE-		890585	B3
BASIC...CP-V		708101	B1	CARD READER/CARD PUNCH EXERCISER (CP-R)...		708003	B1
BATCH MONITOR (RBM)...	REAL-TIME	705732	B1	CARD STORE/RETRIEVE (CSR)...		705879	B1
BATCH MONITOR CROSS REFERENCE GENERATOR...		890147	B3	CARD...UTILITIES,SINGLE		890859	B3
BATCH MONITOR--1 (RBM-1)...	REAL-TIME	705290	B3	CARD,P/UT,MT)--UTIL....S/A FILE CPY AND VER(		704782	B1
BATCH QUEUE EXCHANGER...BATQXCH -		890928	B3	CARDS FOR ILLEG.PUNCHES & SEQ....EDIT DATA		890458	B3
BATCH STREAM CARD LISTER...		890714	B3	CARDS...EXTRACT PAYROLL 5		890570	B3
BATCH TERMINAL TEST PROGRAM...REMOTE		704983	B1	CARDS...EXTRACT WAGE		890567	B3
BATQXCH - BATCH QUEUE EXCHANGER...		890928	B3	CART...PANAVIA		706441	B3
BCD CONVERSION...CN704852 MODOFORTIV COMP		890321	B3	CART)...CHECK OUT AID AND READINESS TEST (		705888	B3
BCD-EBCDIC CONVERSION SUBR...FORTRAN IV		890324	B3	CART-3 CHECK-OUT AID READINESS...		706205	B3
BCD/EBCDIC TRANSLATION TABLE...		704855	B1	CASPRE BPM...		890781	B3
BCH ABS DUMP LOADER...BASIC		704148	B1	CATALOG PROCEDURES...		890818	B3
BCH OPERATING SYSTEM...		704144	B1	CC-32 DIAGNOSTIC PROGRAM...		705886	B1
BCH VER)...DECIMAL INSTRUCTION SIMULATOR		704384	B1	CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM...		890727	B3
BCH VER)...BYTE-STRING INSTRUCT. SIMULATOR		704385	B1	CCS...ON-LINE COMPUTER CENTER SUBSYSTEM		706436	B1
BCH VER)...FLOATING POINT INST. SIMULATOR		704383	B1	CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS...		705358	B3
BCH VERS)...UNIMPLEMENTED INST. SIM. PKCG.		704382	B1	CENTER SUBSYSTEM CCS...ON-LINE COMPUTER		706436	B1
BCH VERSION)...EXTENDED FORTRAN IV-H (		705850	B1	CFC-3 TEST...		704348	B3
BCH...MONITOR FOR		704133	B1	CHANNEL INTERFACE UNIT TEST DIAGNOSTIC...		705278	B1
BCH...POWER FAIL-SAFE UNDER		704598	B3	CHANNEL MAGNETIC TAPE TEST...7		705738	B1
BCH...SYMBOL ASSEMBLER FOR		704158	B1	CHANNEL MAGNETIC TAPE TEST...9		705942	B1
BCH)...CONVERT INSTRUCTION SIMULATOR (		704388	B1	CHANNEL TEST PROGRAM...INTEGRAL IOP		704918	B3
BCH)...EXTENDED FORTRAN IV/IV-H LIBRARY (		705821	B1	CHAR POTTER LINE PRINTER TEST PROO...192		705428	B3
BCH/STAND-ALONE COMMON SOFTWARE PACKAGE...		704127	B1	CHARACTER ANALEX LINE PRINTER TEST...98-		705731	B1
BDSPTT...COBOL SUBROUTINE		890806	B3	CHARACTER MANIPULATION ROUTINES--FORTRAN...		890897	B3
BILLING-DP0721...ACCOUNTS RECEIVABLE		890828	B3	CHARACTER ORIENTED COMMUNICATION TEST...		704918	B1
BINOMIAL SIGNIFICANCE TEST...		890449	B3	CHARACTER PRINTER TEST PROGRAM...OPTICAL		706411	B1
BIOMEDICAL PROG.-REGULAR & X SERIES...UCLA		890890	B3	CHARGES (DP0918)...BOOKSTORE DEPARTMENT		890832	B3
BIOMEDICAL STATISTICAL PACKAGE-BMD...UCLA		890850	B3	CHART...ADMIS28-FAMILY INCOME		890895	B3
BIRD WHISTLING-SIMULATION...		890557	B3	CHECK LISTING (DP0512)...OUTSTANDING		890597	B3
BIT EDIT DIAGNOSTIC SYSTEM PROGRAM...32-		730014	B1	CHECK OUT AID AND READINESS TEST (CART)...		705888	B3
BIT I/O UTILITY PROGRAM...32-		730030	B1	CHECK REGISTER (DP0118)...ACCOUNTS PAYABLE		890824	B3
BIT LIBRARY LOADER...XEROX 32-		730011	B1	CHECK...PAYROLL ERROR		890588	B3
BIT WORD TO 64 BIT...C38T84 CONVERT 38		890721	B3	CHECK-OUT AID READINESS...CART-3		706205	B3
BIT...C38T84 CONVERT 38 BIT WORD TO 64		890721	B3	CHECKER...CHECKOUT AID-		704448	B3
BLDRSE-S-O-P COURSE NAME PROGRAM...		890582	B3	CHECKOUT AID-CHECKER...		704448	B3
BLDNAME - S-O-P STUDENT NAME PROGRAM...		890583	B3	CHECKS (DP0120)...ACCOUNTS PAYABLE		890825	B3
BLOCKED AND OVERLAPPED I/O PACKAGE...		890987	B3	CHECKS...PAYROLL		890588	B3
BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE...		890955	B3	CHI-SQUARES, CONTING. COEFF...CROSS TABS.		890454	B3
BLOCKING/UNBLOCKING ROUTINE...BLOCKER-FILE		890955	B3	CHILDREN LIST...ADMIS10-ALUMNI		890883	B3
BMD...UCLA BIOMEDICAL STATISTICAL PACKAGE-		890850	B3	CHRONOLOGICAL/SORTED LIST MOD...CP-V/CP-R-		708008	B1
BOMT...STAND-ALONE I/O HANDLER FOR		704173	B1	CIRC-AC...		706112	A1
BOND...STAND-ALONE I/O HANDLER FOR		704183	B1	CIRC-DC...		705885	A1
BOOK...		708504	B3	CIRC-TRANSIENT...		706253	A1
BOOKSTORE ACCOUNTS RECEIVABLE (DP0911)...		890630	B3	CIRCUIT ANALYSIS PROGRAM...1820 ELECTRONIC		890887	B3
BOOKSTORE DEPARTMENT CHARGES (DP0918)...		890632	B3	CLASS DIRECTORY...ALUMS		890639	B3
BOOKSTORE STATEMENTS (DP0913)...		890631	B3	CLASS ROSTERS...ACST3		890848	B3
BOOKSTORE SYSTEM (COVER)...		890629	B3	CLASS SCHEDULES...ACST5		890850	B3
BOOKSTORE TRIAL BALANCE (DP0917)...		890633	B3	CLASS, APL COURSE...APL LEARNING AID -		890829	B3
BOOLEAN FUNCTIONS FOR SIGMA 7...INTEGER		890327	B3	CLASSIFICATION ANALYSIS...CROSS		890456	B3
BOOT...SYSTEM DISC DUMP/RESTORE/AUTO		890734	B3	CLASSIFICATION ANALYSIS...MULTIPLE		890474	B3
BOOTSTRAP LOADER...ABSOLUTE		704145	B1	CLEBSCH-GORDAN SUBROUTINE...		890870	B3
BOPP...STAND-ALONE I/O HANDLER FOR		704171	B1	CLOCK TEST...REAL-TIME		704017	B3
BOUNDARY MODULE FOR ELLA...CP-V/CP-R-		708009	B1	CLOSURE HANDLER...CONTACT		706227	B3
BREAKDOWN TRANSLATOR (ROMBUST)...ROM		890143	B3	CLUSTER ANALYSIS : HIERARCHICAL GROUPING...		890472	B3
BROWSE - INTERACTIVE INDEXED TEXT SYSTEM...		890877	B3	CN704852 MODOFORTIV COMP BCD CONVERSION...		890321	B3
BUDGET STATEMENTS (DP0222)...MONTHLY		890593	B3	COAST CAL/APL...XEROX/		890813	B3
BUILD...TRANSMOQ- EBCDIC BINARY FILE		706201	B3	COBOL ADD SEQUENTIAL SUBROUTINE...		890804	B3
BURSTER...PAGE		890797	B3	COBOL COMPILER...XEROX ANS		705888	B1
BUSINESS POLICY GAME...		890958	B3	COBOL KEYED-FILE UTILITY SUBROUTINES...		890598	B3
BYTE INSTRUCTION DIAGNOSTIC PROGRAM...		730023	B1	COBOL RELEASE FILES (RELFILES)...		890588	B3
BYTE MIOP TEST PROGRAM...4		705282	B3	COBOL RESTART PROGRAM...		890717	B3
BYTE-STRING INSTRUCT. SIMULATOR (BCH VER)...		704385	B1	COBOL SUBROUTINE BDSPTT...		890808	B3
BYE-STRING INSTRUCTION SIMULATOR (S/A)...		704151	B1	COBOL SUBROUTINE BINARY SEARCH...		890807	B3
BZCP...STAND-ALONE I/O HANDLER FOR		704172	B1	COBOL SUBROUTINE DELREC...		890808	B3
CAGE SIGMA 7 CPU EXERCISER...MARTIN-		704985	B3	COBOL SUBROUTINE GETCOM...		890801	B3
CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE...		890711	B3	COBOL SUBROUTINE GETKEY...		890802	B3
CAL/APL...XEROX/COAST		890813	B3	COBOL SUBROUTINE KEYSTART...		890803	B3
CALC...FOCAL, FORTRAN-CALCULATOR,DESK		890312	B3	COBOL SUBROUTINE PAPERCHG...		890805	B3
CALCOMP PLOTTER LABELLING SUBR (LABEL)...		704061	B3	COBOL TELETYPE INTERFACE SUBROUTINES...		890746	B3
CALCOMP PLOTTER SUBROUTINE PACKAGE...		890732	B3	COBOL...TIMER ELAPSED TIME SUBR FOR		890789	B3
CALCOMP PLOTTER...SYMBOL LAB. ROUTINE FOR		890388	B3	COC HANDLER FOR XEROX MESSAGE SWITCH SYS...		705728	B3
CALCOMP PLOTTING PACKAGE...		890738	B3	COCHRAN Q-TEST...		890427	B3
CALCOMP PLOTTING SUBROUTINE (PLOT)...		704080	B3	CODE SYSTEM HANDLER (TCSH)...TIME		708237	B3
CALCULATION...RELIABILITY PREDICTION		708455	B3	CODE TRANSLATOR TEST...TIME		708235	B3
CALCULATOR,DESK CALC...FOCAL, FORTRAN-		890312	B3	CODE...SIGMA 5/7 MFOR LINEAR PROGRAMMING		890148	B3
CALENDAR...		890788	B3	CODED DECIMAL...ECD ENGLISH		890738	B3
CALS FOR FORTRAN USERS-MONITOR CALI'S...		890660	B3	COEFF...CROSS TABS, CHI-SQUARES, CONTING.		890454	B3
CALI'S...CALS FOR FORTRAN USERS-MONITOR		890660	B3	COEFFICIENT OF CONCORDANCE...KENDALL		890430	B3
CANONICAL ANALYSIS - CPSA...		890450	B3	COL. BINARY)...SUBROUTINE PUNCH (		890858	B3
CARD COPY AND VERIFY PROGRAM - UTILITY...		704442	B1	COLOR TRANSLATOR...TRISTIMULUS TO MUNSELL		890878	B3
CARD COPY/VERIFY PROGRAM...CCOPY-PUNCHED		890727	B3	COMET...MEMORY DIAGNOSTIC -		708140	B1
CARD CORE DUMP - UTILITY...ONE		705750	B3	COMMON SOFTWARE PACKAGE...BCH/STAND-ALONE		704127	B1
CARD DECK...JT-14 PET UNIT TEST PATTERN		704427	B3	COMMUNICATION TEST...CHARACTER ORIENTED		704018	B1
CARD DUPLICATOR - USES 7160 PUNCH...		890558	B3	COMMUNICATIONS CONTROL PROG...UNIVAC 1108		890743	B3
CARD EQUIPMENT TEST...COMPREHENSIVE		708169	B1	COMP BCD CONVERSION...CN704852 MODOFORTIV		890321	B3
CARD FILER...CONTROL		890843	B3	COMP/SOURCE UPDATE EDITOR - UTILITY...S/A		704789	B1
CARD LISTER USING SIG 5/7 (STAND-ALONE)...		890554	B3	COMPARED...METASYMBOL SOURCE PROGRAM		890878	B3

PROGRAM AVAILABILITY LIST

SIGMA 5-9/550/560
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KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
COMPARISON PROGRAM...SCOMPARE-SOURCE FILE		890956	B3	CPSA...CANONICAL ANALYSIS -		890450	B3
COMPILER DIAGNOSTICS DEMO...FORTRAN IV		705296	B3	CPU DIAGNOSTIC (AUTO)...		708133	B1
COMPILER...BPM/BTM BASIC		705398	B1	CPU DIAGNOSTIC (DECIMAL)...		708136	B1
COMPILER...EXTENDED FORTRAN IV		705835	B1	CPU DIAGNOSTIC (FLOAT)...		708135	B1
COMPILER...SSS-SAS PCM TELEMETRY		705655	B3	CPU DIAGNOSTIC (SUFFIX)...		708134	B1
COMPILER...XEROX ANS COBOL		705888	B1	CPU DIAGNOSTIC (SUFFIX)...SIGMA 5		704174	B3
COMPILER...XPL (GORDO) - XPL		890799	B3	CPU DIAGNOSTIC - AUTO...		704287	B3
COMPILER...XPL/S		890923	B3	CPU DIAGNOSTIC SYSTEM (AUTO)...		704044	B3
COMPONENTS...FACTOR ANALYSIS (PRINCIPLE		890460	B3	CPU DIAGNOSTIC SYSTEM (DECIMAL)...		704047	B3
COMPREHENSIVE CARD EQUIPMENT TEST...		708169	B1	CPU DIAGNOSTIC SYSTEM (FLOAT)...		704048	B3
COMPREHENSIVE LINE PRINTER TEST...		708187	B1	CPU DIAGNOSTIC SYSTEM (MAP)...		704048	B3
COMPREHENSIVE RAD TEST...		705730	B1	CPU DIAGNOSTIC SYSTEM (PATTERN)...		704043	B3
COMPRESSED LIB...EXTENDED FORTRAN IV/IV-M		705001	B1	CPU DIAGNOSTIC SYSTEM (SUFFIX)...		704045	B3
COMPRESSED RECORDS...ADMIS27-SELECTIVE		890696	B3	CPU DIAGNOSTIC SYSTEM (VERIFY)...		704042	B3
COMPRESSED SOURCE MERGE PROGRAM...		890326	B3	CPU EXERCISER...MARTIN-CAGE SIGMA 7		704965	B3
COMPRESSION UTILITY PROGRAM...		706148	B3	CPU HARD CORE PREP (HCP)...		706264	B1
COMPUTER CENTER SUBSYSTEM CCS...ON-LINE		706436	B1	CPU LOADER DOC...FORMAT CONVERTER -		704029	B3
COMIB...MEMORY DIAGNOSTIC -		706295	B1	CPY AND VER(CARD,PUT,MT)-UTIL...S/A FILE		890782	B1
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CONCORDANCE...KENDALL COEFFICIENT OF		890430	B3	CREATE/UPDATE...RELIABILITY PREDICTION		706454	B3
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CONFLICTS...ACST32 COURSE		890654	B3	CROSS CLASSIFICATION ANALYSIS...		890456	B3
CONSOLE DIAGNOSTIC PROG...SYSTEM CONTROL		730029	B1	CROSS REFERENCE GENERATOR...BATCH MONITOR		890147	B3
CONSOLE EXAMINER (FACE)...FREESTANDING		704786	B3	CROSS REFERENCE PROGRAM...FORTRAN		890545	B3
CONSOLE TAPE HANDLER...MOTHER-OPERATOR		890703	B3	CROSS REFERENCE SYMBOL LISTING PROG...		890157	B3
CONTACT CLOSURE HANDLER...		706227	B3	CROSS TABS, CHI-SQUARES, CONTING. COEFF...		890454	B3
CONTINUING TOURNAMENTS...SCORE KEEPER FOR		890708	B3	CROSS TABULATION...INTERACTIVE		890841	B3
CONTINUOUS SIMULATION...INTERACTIVE		890838	B3	CROSS-LAG INTERCORRELATION...AUTO-8		890448	B3
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CONV. LANGUAGE)...BPM/BTM PCL (PERIPHERAL		706206	B1	CSR)...CARD STORE/RETRIEVE (705879	B1
COVARIANCE...ANOVA -		890438	B3	CURVE FITTING...INTERACTIVE LEAST SQUARES		890865	B3
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CONVERSION (7/9 TRACK) - UTIL...MAG. TAPE		704783	B1	CO1...PORT TEST		706271	B1
CONVERSION AND EDITOR ROUTN-UTIL...MEDIA		704784	B1	C36T64 CONVERT 36 BIT WORD TO 64 BIT...		890721	B3
CONVERSION SUBR...FORTRAN IV BCD-EBCDIC		890324	B3	DAC HANDLER...DMS-12		706229	B3
CONVERSION SUBROUTINE...DATE		706105	B3	DARP)...DATA RETRIEVAL PACKAGE (705889	B3
CONVERSION...CN704852 MODOFORTIV COMP BCD		890321	B3	DATABASE PROCESSOR (IDP)...INTERACTIVE		706468	B1
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CONVERT INSTRUCTION SIMULATOR (S/A)...		704152	B1	DATAFORM GENERATOR BY PLOTTER...PHORMER -		890534	B3
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CONVERTER...IBM-XEROX APL WORKSPACE		890831	B3	DATETIME...SUBROUTINE		890661	B3
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COPY AND SEQUENCE PROGRAM - UTILITY...		704396	B1	DCB...PATCH		890783	B3
COPY AND VERIFY (BPM) UTILITY...MAG TAPE		705366	B3	DCB'S...DISPLAY SET		890858	B3
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COPY PROCESSOR...IBM		890794	B3	DEBUG ROUTINE...		705658	B3
COPY PROGRAM - UTILITY...MAG TAPE/RAD		705423	B3	DEBUG ROUTINE-ON-LINE...		890311	B3
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COPY/VERIFY PROGRAM...COPY-PUNCHED CARD		890727	B3	DECIMAL)...CPU DIAGNOSTIC (706136	B1
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CORE DUMP - UTILITY...ONE CARD		705750	B3	DECLARE TEMPORARY FILES...		890816	B3
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CORRELATIONS; PRODUCT MOMENT...		890451	B3	DELETE STANDARD...		890768	B3
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COURSE NAME PROGRAM...BLDCRSE-S-O-P		890582	B3	DEPARTMENT CHARGES (DP0916)...BOOKSTORE		890632	B3
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CP-R...LINE PRINTER EXERCISER FOR		708004	B1	DESK CALC...FOCAL, FORTRAN-CALCULATOR,		890312	B3
CP-R...MAGNETIC TAPE EXERCISER FOR		708005	B1	DETAB/65 PREPROCESSOR...		890702	B3
CP-R...ON-LINE EXERCISER SYSTEM FOR		708001	B1	DETECTION (AID)...AUTOMATIC INTERACTION		890447	B3
CP-R)...CARD READER/CARD PUNCH EXERCISER (708003	B1	DFAC...FACTORIAL FUNCTIONS FAC AND		890735	B3
CP-R)...CONTROL PROGRAM FOR REAL-TIME (708000	B1	DIAG...STANFORD DMS10 DIRECT TO MEMORY		705295	B3
CP-R-BOUNDARY MODULE FOR ELLA...CP-V/		708009	B1	DIAG-SUPI...SYS UNIT/PROCS INTRFACE UNIT		730009	B1
CP-R-CHRONOLOGICAL/SORTED LIST MOD...CP-V/		708008	B1	DIAGNOSTIC PROGRAM...7930/7931/7935 SIU		704211	B1
CP-R-CONTROL PROGRAM FOR ELLA...CP-V/		708007	B1	DIAGNOSTIC (AUTO)...CPU		708133	B1
CP-R-ERROR SUMMARY MODULE FOR ELLA...CP-V/		708010	B1	DIAGNOSTIC (DECIMAL)...CPU		708136	B1
CP-R-GRAPHICAL DISPLAY MODULE ELLA...CP-V/		708011	B1	DIAGNOSTIC (FLOAT)...CPU		708135	B1
CP-V BASIC...		706101	B1	DIAGNOSTIC (IO)...INTERRUPT		704143	B3
CP-V FLAG...BPM/		705819	B1	DIAGNOSTIC (MEDIC 75)...MEMORY		704067	B3
CP-V...CONTROL PROGRAM FIVE		707000	B1	DIAGNOSTIC (MIOP)...MULTIPLEX IOP		704057	B3
CP-V...FAST SAVE/RESTORE -		890809	B3	DIAGNOSTIC (MS)...SIOP		705722	B3
CP-V...SORT PERFORMANCE JOB STREAM FOR		706495	B1	DIAGNOSTIC (SUFFIX)...CPU		708134	B1
CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)...		708006	B1	DIAGNOSTIC (SUFFIX)...SIGMA 5 CPU		704174	B3
CP-V/CP-R-BOUNDARY MODULE FOR ELLA...		708009	B1	DIAGNOSTIC (SYSX)...SYSTEM EXERCISER		730010	B1
CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD...		708008	B1	DIAGNOSTIC - AUTO...CPU		704287	B3
CP-V/CP-R-CONTROL PROGRAM FOR ELLA...		708007	B1	DIAGNOSTIC - AUTO...INSTRUCTION		730000	B1
CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA...		708010	B1	DIAGNOSTIC - COMET...MEMORY		708140	B1
CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA...		708011	B1	DIAGNOSTIC - COMIB...MEMORY		706295	B1

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
DIAGNOSTIC - FADS...	INSTRUCTION	730002	81	DISPLAY LIBRARY (ODL)...	GRAPHIC	706129	83
DIAGNOSTIC - SUFFIX...	INSTRUCTION	730001	81	DISPLAY MODULE ELLA...	CP-V/CP-R-GRAPHICAL	708011	81
DIAGNOSTIC CONTROL PROG...	STAND-ALONE OCP	708472	81	DISPLAY SET DCB'S...		890858	83
DIAGNOSTIC CONTROL PROGRAM (DCP)...		704070	83	DISPLAY STATION PROCEDURAL HANDLER...	XEROX	708293	81
DIAGNOSTIC DEMO...	FORTAN IV RUN-TIME	705391	83	DISPLAY TEST...	ARDS	708234	83
DIAGNOSTIC FOR MDC MODIFIED 7580...		705774	81	DISPLAY TO PLOTTER COPY...	GRAPHIC	705852	83
DIAGNOSTIC MONITOR...	GUIDE	706131	81	DISTRIBUTION ANALYSIS...		890457	83
DIAGNOSTIC PROG. SYS...	LOAD-AND-80 (L80)	730013	81	DISTRIBUTION LEDGER TRIAL BALANCE DP0215..		890592	83
DIAGNOSTIC PROG...	SYSTEM CONTROL CONSOLE	730029	81	DISTRIBUTION SUMM...	ACST12 GEOGRAPHICAL	890853	83
DIAGNOSTIC PROGRAM LOADER...	RELOCATABLE	704358	83	DISTRIBUTION...ADMIS13-WEEKLY		890685	83
DIAGNOSTIC PROGRAM MAG TAPE LIBRARY...		706144	81	DISTRIBUTION...PAYROLL		890588	83
DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY..		705892	81	DITTO - SIGMA UTILITY FILE MANIPULATOR...		890817	83
DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY..		730025	81	DMS - DATA MANAGEMENT SYSTEM (BPM)...		705900	A1
DIAGNOSTIC PROGRAM MONITOR (DPM)...		705682	81	DMS DEBUG PACKAGE...	INTERACTIVE	890778	83
DIAGNOSTIC PROGRAM SYSTEM MONITOR...		730012	81	DMS 12 DIAGNOSTIC PROGRAM...		708230	83
DIAGNOSTIC PROGRAM WITH HANDLERS...	CCS-20	705358	83	DMS-12 DAC HANDLER...		708229	83
DIAGNOSTIC PROGRAM...ADS-10 ANALOG SIU		705887	81	DMSREST)...	EDMS RESTRUCTURING PROCESSOR (	708488	81
DIAGNOSTIC PROGRAM...AUTO DIAL		704074	81	DMS10 DIRECT TO MEMORY DIAG...	STANFORD	705295	83
DIAGNOSTIC PROGRAM...BADGE READER		705663	83	DOC...	FORMAT CONVERTER - CPU LOADER	704029	83
DIAGNOSTIC PROGRAM...BYTE INSTRUCTION		730023	81	DPH)...	DIAGNOSTIC PROGRAM MONITOR (	705882	81
DIAGNOSTIC PROGRAM...CC-32		705886	81	DP0112)...	YEARLY ACCOUNTS PAYABLE TOTALS (	890821	83
DIAGNOSTIC PROGRAM...DECH		730024	81	DP0113)...	ACCOUNTS PAYABLE VENDOR LABELS (	890822	83
DIAGNOSTIC PROGRAM...DMS 12		708230	83	DP0115)...	DUE DATE ACCRUED PAYABLES (	890823	83
DIAGNOSTIC PROGRAM...INTERRUPT SYSTEM		730008	81	DP0118)...	ACCOUNTS PAYABLE CHECK REGISTER	890824	83
DIAGNOSTIC PROGRAM...LINE PRINTER		730017	81	DP0120)...	ACCOUNTS PAYABLE CHECKS (	890825	83
DIAGNOSTIC PROGRAM...MAP		730004	81	DP0215)...	DISTRIBUTION LEDGER TRIAL BALANCE	890592	83
DIAGNOSTIC PROGRAM...MAP AND WRITE LOCK-		706138	81	DP0222)...	MONTHLY BUDGET STATEMENTS (	890593	83
DIAGNOSTIC PROGRAM...MEMORY		730003	81	DP0311)...	GENERAL LEDGER TOTALS (	890594	83
DIAGNOSTIC PROGRAM...MIOP		730005	81	DP0316)...	GENERAL LEDGER MONTHLY STATEMENT	890598	83
DIAGNOSTIC PROGRAM...POWER FAIL-SAFE (PFS)		730022	81	DP0512)...	OUTSTANDING CHECK LISTING (	890597	83
DIAGNOSTIC PROGRAM...TRAP		730021	81	DP0718)...	ACCOUNTS RECEIVABLE TRIAL BALANCE	890827	83
DIAGNOSTIC PROGRAM...7907		708489	83	DP0721)...	ACCOUNTS RECEIVABLE BILLING-	890828	83
DIAGNOSTIC PROGRAM...7910/14/15 SIU		704236	81	DP0911)...	BOOKSTORE ACCOUNTS RECEIVABLE (	890830	83
DIAGNOSTIC PROGRAM...7922 SIU		704214	81	DP0913)...	BOOKSTORE STATEMENTS (	890831	83
DIAGNOSTIC PROGRAM...7923/28/29 SIU		705392	81	DP0918)...	BOOKSTORE DEPARTMENT CHARGES (	890832	83
DIAGNOSTIC SYSTEM (AUTO)...	CPU	704044	83	DP0917)...	BOOKSTORE TRIAL BALANCE (	890833	83
DIAGNOSTIC SYSTEM (DECIMAL)...	CPU	704047	83	DREV APL...		890716	83
DIAGNOSTIC SYSTEM (FLOAT)...	CPU	704046	83	DRIVER PACKAGE...PLOT		890387	83
DIAGNOSTIC SYSTEM (MAP)...	CPU	704048	83	DUE DATE ACCRUED PAYABLES (DP0118)...		890823	83
DIAGNOSTIC SYSTEM (PATTERN)...	CPU	704043	83	DUMP - UTILITY...KEYED CORE		705791	83
DIAGNOSTIC SYSTEM (SUFFIX)...	CPU	704045	83	DUMP - UTILITY...ONE CARD CORE		705750	83
DIAGNOSTIC SYSTEM (VERIFY)...	CPU	704042	83	DUMP - UTILITY...STAND-ALONE SELECTIVE		704779	81
DIAGNOSTIC SYSTEM PROGRAM...32-BIT EDIT		730014	81	DUMP LOADER WITH I/O HANDLERS...	S/A ABS	704195	81
DIAGNOSTIC UTILITY...PANAVIA		706442	83	DUMP LOADER...BASIC BCM ABS		704148	81
DIAGNOSTIC...ARGONNE HI-LEVEL ANALOG INPUT		705868	83	DUMP PROGRAM...DISC		890816	83
DIAGNOSTIC...ARGONNE LO-LEVEL ANALOG INPUT		705867	83	DUMP SUBROUTINE - UTILITY...MEMORY		704778	81
DIAGNOSTIC...CHANNEL INTERFACE UNIT TEST		705279	81	DUMP...		890875	83
DIAGNOSTIC...DATA-SET CONTROLLER		704013	81	DUMP...FILE		890817	83
DIAGNOSTIC...DIRECT TO MEMORY SYSTEM		705303	81	DUMP...PRINT		705757	83
DIAGNOSTIC...INTERRUPT/TRAP		706137	81	DUMP-UTIL...STAND-ALONE MAG TAPE OR DISC		704780	81
DIAGNOSTIC...KEYBOARD DISPLAY		704004	83	DUMP/LIST PROGRAM - UTILITY...		705428	83
DIAGNOSTIC...MEDIUM SPEED MAGNETIC TAPE		730016	81	DUMP/RESTORE/AUTO BOOT...SYSTEM DISC		890734	83
DIAGNOSTIC...MEMORY PROTECT		704062	83	DUPPLICATOR - USES 7180 PUNCH...CARD		890556	83
DIAGNOSTIC...MS LINE PRINTER		706473	81	EAP)...EXECUTION ANALYZER PROGRAM (		890758	83
DIAGNOSTIC...PANAVIA THS09A		708442	83	EASY...XEROX UTS/		708433	81
DIAGNOSTIC...PERIPHERAL SWITCHING EQUIP.		704314	81	EATER...SOLE: SIGMA OBJECT LANGUAGE		890840	83
DIAGNOSTIC...POWER FAIL SAFE		708142	81	EBCDIC BINARY FILE BUILD...TRANSMO-		708201	83
DIAGNOSTIC...SOFTWARE HARDWARE (SHC)		730008	81	EBCDIC CONVERSION SUBR...FORTRAN IV BCD-		890324	83
DIAGNOSTIC...SYSTEM KEYBOARD DISPLAY (SKD)		706236	81	EBCDIC INPUT ROUTINE...FREE-FIELD		890549	83
DIAGNOSTIC...TAPE MOTION - TIME CONTROL		706440	83	EBCDIC OUTPUT ROUTINE...GENERALIZED		890550	83
DIAGNOSTIC...VARIAN MULTISTYLUS		706438	83	EBCDIC TRANSLATION TABLE...BCD/		704855	81
DIAGNOSTIC...2230/2470 LINE PRINTER		706471	83	EBCDIC-HEXDUMP MAG TAPE / RAD FILE...		890587	83
DIAGNOSTIC...7580 GRAPHIC DISPLAY		705387	81	ECD ENGLISH CODED DECIMAL...		890738	83
DIAGNOSTIC...7902 EDSC		706173	83	EDIT DATA CARDS FOR ILLEG.PUNCHES & SEQ...		890488	83
DIAGNOSTIC...7915/ADS 10		706145	81	EDIT DIAGNOSTIC SYSTEM PROGRAM...32-BIT		730014	81
DIAGNOSTIC-FAULT LOCATOR...MEMORY		705738	83	EDITOR (METAMEDIA)...FILE		890531	83
DIAGNOSTICS DEMO...FORTRAN IV ALLOCATION		705762	83	EDITOR - UTILITY...MAGNETIC TAPE		704378	81
DIAGNOSTICS DEMO...FORTRAN IV COMPILER		705296	83	EDITOR - UTILITY...S/A COMP/SOURCE UPDATE		704785	81
DIAL DIAGNOSTIC PROGRAM...AUTO		704074	81	EDITOR ROUTN-UTIL...MEDIA CONVERSION AND		704784	81
DIGITAL I/O UNIT...HANDLER FOR 7930/7931		705861	83	EDITOR...HIERARCHICAL TEXT		890818	83
DIGITAL SIMULATION PROGRAM...ANALOG		890561	83	EDITOR...RBM RAD		705734	81
DIMENSION TRANSIENT HEAT TRANSFER...THREE		890766	83	EDITOR...STAND-ALONE RAD		890733	83
DIRECT TO MEMORY DIAG...STANFORD DMS10		705295	83	EDMS RESTRUCTURING PROCESSOR (DMSREST)...		708488	81
DIRECT TO MEMORY SYSTEM DIAGNOSTIC...		705303	81	EDSC DIAGNOSTIC...7902		706173	83
DIRECTORY...ALUM2 LONG FORM		890838	83	ELAPSED TIME SUBR FOR COBOL...TIMER		890708	83
DIRECTORY...ALUM3 CLASS		890639	83	ELECTRONIC CIRCUIT ANALYSIS PROGRAM...1820		890887	83
DISC DUMP PROGRAM...		890616	83	ELLA...CP-V/CP-R-BOUNDARY MODULE FOR		708009	81
DISC DUMP-UTIL...STAND-ALONE MAG TAPE OR		704780	81	ELLA...CP-V/CP-R-CONTROL PROGRAM FOR		708007	81
DISC DUMP/RESTORE/AUTO BOOT...SYSTEM		890734	83	ELLA...CP-V/CP-R-ERROR SUMMARY MODULE FOR		708010	81
DISC SAVE-RESTORE ROUTINE-UTIL...STD-ALONE		704781	81	ELLA...CP-V/CP-R-GRAPHICAL DISPLAY MODULE		708011	81
DISC STORAGE TEST...REMOVABLE		705534	81	ELLA...CP-V/CP-R ERROR LOG LIST/ANALYSIS		708008	81
DISC...FORTRAN RANDOM		890759	83	ENGLISH CODED DECIMAL...ECD		890738	83
DISCPROC...SUBROUTINE		890844	83	ENROLLMENT...ADMISSIONS SYSTEM FOR SCHOOL		890877	83
DISCRETE SIMULATION PACKAGE - SIMPAC...		890837	83	ENTITY SELECTION...		890458	83
DISCRETE SIMULATOR-GPDS...GENERAL PURPOSE		708130	A1	ENTRY PACKAGE - FORM PAK...UTS FORM DATA		890820	83
DISCRIMINANT ANALYSIS...MULTIPLE		890475	83	ENTRY...MASP REMOTE JOB		890784	83
DISK STORAGE TEST...REMOVABLE		706424	81	ENVELOPE...ADMIS5-HIGH SCHOOL COUNSELOR		890881	83
DISK...COPY PROGRAM MAG TAPE TO		706443	81	ENVELOPES...ADMIS3-APPLICANT		890880	83
DISPLAY (SKD) DIAGNOSTIC...SYSTEM KEYBOARD		708236	81	ENVELOPES/LABELS...ADMIS15-SELECTIVE		890887	83
DISPLAY DIAGNOSTIC...KEYBOARD		704004	83	EQUIP. DIAGNOSTIC...PERIPHERAL SWITCHING		704314	81
DISPLAY DIAGNOSTIC...7580 GRAPHIC		705387	81	EQUIPMENT TEST...COMPREHENSIVE CARD		706188	81

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
ERROR CHECK...	PAYROLL	890565	B3	FILES...	DECLARE TEMPORARY	890816	B3
ERROR LOG ANALYZER FOR BPM...	STAND-ALONE	705677	B1	FILES...	MULTISORT - SORT MULTIPLE INPUT	705881	B3
ERROR LOG LIST/ANALYSIS (ELLA)...	CP-V/CP-R	708006	B1	FILES...	SORT 1400 SIMULATOR FORMATTED TAPE	705882	B3
ERROR LOG LISTER ...	RBM	706467	B3	FINAL GRADE REPORTS...	ACST2	890647	B3
ERROR SUMMARY MODULE FOR ELLA...	CP-V/CP-R	708010	B1	FINANCIAL NEED MATRICES...	ADMIS25-	890894	B3
EVENT MEASUREMENT PROC...	GEM-1 GENERALIZED	705531	B3	FITTING...	INTERACTIVE LEAST SQUARES CURVE	890885	B3
EXAMINER (FACE)...	FREESTANDING CONSOLE	704786	B3	FITTING...	POLYNOMIAL CURVE	890835	B3
EXCHANGER...	BATQXCH - BATCH QUEUE	890928	B3	FIVE CP-V...	CONTROL PROGRAM	707000	B1
EXECUTE (LOPE) BPM...	LOAD ONE PASS AND	705260	B1	FLAG...	BPM/CP-V	705819	B1
EXECUTION ANALYZER PROGRAM (EAP)...		890758	B3	FLASH - TAPE TO PRINT UTILITY...		890938	B3
EXECUTIVE LIBRARY...	MBB HYBRID	705897	B3	FLOAT)...	CPU DIAGNOSTIC (	706135	B1
EXECUTIVE LIBRARY...	WESTINGHOUSE HYBRID	705670	B3	FLOAT)...	CPU DIAGNOSTIC SYSTEM (	704048	B3
EXECUTIVE PROGRAM)...	BTM-EXEC (	705415	B1	FLOATING POINT INST. SIMULATOR (BCM VER)...		704363	B1
EXERCISER (CP-R)...	CARD READER/CARD PUNCH	708003	B1	FLOATING POINT INST. SIMULATOR (S/A VERS)...		704149	B1
EXERCISER (SEX)...	NEW SYSTEM	705889	B1	FLOPLOT - A UTS FLOWCHARTING PROGRAM...		890763	B3
EXERCISER (SWAP 3.2)...	STAND-ALONE SYSTEM	705680	B3	FLOWCHARTING PROGRAM...	FLOPLOT - A UTS	890763	B3
EXERCISER CONTROL PROGRAM FOR CP-R...		708002	B1	FMP)...	FUNCTIONAL MATHEMATICAL PROG SYS (	705831	A1
EXERCISER DIAGNOSTIC (SYSX)...	SYSTEM	730010	B1	FOCAL, FORTRAN-CALCULATOR, DESK CALC....		890312	B3
EXERCISER FOR CP-R...	LINE PRINTER	708004	B1	FOLDER LABELS...	ADMIS2-FILE	890879	B3
EXERCISER FOR CP-R...	MAGNETIC TAPE	708005	B1	FORM DATA ENTRY PACKAGE - FORM PAK...	UTS	890820	B3
EXERCISER SYSTEM FOR CP-R...	ON-LINE	708001	B1	FORM DIRECTORY...	ALUM2 LONG	890838	B3
EXERCISER...	MARTIN-CAGE SIGMA 7 CPU	704965	B3	FORM PAK...	UTS FORM DATA ENTRY PACKAGE -	890820	B3
EXERCISER...	MULTI-PROCESSOR	705390	B3	FORM...		890701	B3
EXPAND PROCESSOR...		890777	B3	FORM...	ADMIS1-RECEIPT	890678	B3
EXT. ANAL. OF VARIANCE...	LINDQUIST TYPE	890445	B3	FORMAT CONVERTER - CPU LOADER DOC....		704029	B3
EXT. FORTRAN IV/IV-H LIBS. (BPM/BTM)...		705820	B1	FORMATTED TAPE FILES...	SORT 1400 SIMULATOR	705882	B3
EXTENDED ALGOL 60...		890750	B3	FORMS PROCESSOR...	PRINT	890815	B3
EXTENDED F-IV...	SYSTEM FORTCOMP FOR	705836	B1	FORT II-FORT IVH...	FORTTRAN PRECOMPILER	890708	B3
EXTENDED FORTRAN IV COMPILER...		705835	B1	FORT IVH...	FORTTRAN PRECOMPILER FORT II-	890708	B3
EXTENDED FORTRAN IV-H (BCM VERSION)...		705850	B1	FORT-SYMBOL INTERFACE ROUTINES...	SPECIAL	705886	B3
EXTENDED FORTRAN IV-H (BPM,BTM)...		705851	B1	FORTCOMP FOR EXTENDED F-IV...	SYSTEM	705838	B1
EXTENDED FORTRAN IV-H (RBM VERSION)...		705776	B1	FORTCOMP PROCEDURES...	SYSTEM	705380	B1
EXTENDED FORTRAN IV/IV-H COMPRESSED LIB...		705001	B1	FORTIV-SCATTER READ/WRITE MAG TAPE PACK...		890589	B3
EXTENDED FORTRAN IV/IV-H LIB. (RBM)...		705738	B1	FORTLIB...	SYSTEM	705381	B1
EXTENDED FORTRAN IV/IV-H LIBRARY (BCM)...		705821	B1	FORTTRAN ARRAYS...	DEMAND PAGED	890881	B3
EXTENDED...ANOVA - LINDQUIST TYPE III		890443	B3	FORTTRAN CROSS REFERENCE PROGRAM...		890545	B3
EXTENDED...XEROX DATA MANAGEMENT SYSTEM -	EXTENSION...	708461	A1	FORTTRAN IV ALLOCATION DIAGNOSTICS DEMO...		705782	B3
EXTENSION...FACTOR		890466	B3	FORTTRAN IV BCD-EBCDIC CONVERSION SUBR....		890324	B3
EXTRA CORE FOR FORTRAN PROGRAMS...	XCORE -	890737	B3	FORTTRAN IV COMPILER DIAGNOSTICS DEMO...		705286	B3
EXTRACT PAYROLL 5 CARDS...		890570	B3	FORTTRAN IV COMPILER...EXTENDED		705835	B1
EXTRACT WAGE CARDS...		890567	B3	FORTTRAN IV INPUT SUBROUTINE...FREE FIELD		890322	B3
FAC AND DFAC...FACTORIAL FUNCTIONS		890735	B3	FORTTRAN IV KEYED FILE I/O ROUTINES...		890323	B3
FACE)...	FREESTANDING CONSOLE EXAMINER (	704786	B3	FORTTRAN IV LIBRARY UPDATE...LIBUPDAT		890665	B3
FACILITY...	GORDO TIME SHARED GRAPHICS	890533	B3	FORTTRAN IV RUN-TIME DIAGNOSTIC DEMO...		705391	B3
FACTOR ANALYSIS (PRINCIPLE COMPONENTS)...		890460	B3	FORTTRAN IV...KEYED/RANDOM FILES FOR		890757	B3
FACTOR ANALYSIS WITH ROTATION...		890465	B3	FORTTRAN IV-H (BCM VERSION)...	EXTENDED	705850	B1
FACTOR EXTENSION...		890466	B3	FORTTRAN IV-H (BPM,BTM)...	EXTENDED	705851	B1
FACTOR HYPOTHESIS TESTING...		890467	B3	FORTTRAN IV-H (RBM VERSION)...	EXTENDED	705776	B1
FACTOR RELATING...		890468	B3	FORTTRAN IV-H)...	7910 SIU HANDLER (	705881	B3
FACTOR ROTATION...		890469	B3	FORTTRAN IV/IV-H COMPRESSED LIB...EXTENDED		705001	B1
FACTOR SCORING...		890470	B3	FORTTRAN IV/IV-H LIB. (RBM)...	EXTENDED	705738	B1
FACTORIAL FUNCTIONS FAC AND DFAC...		890735	B3	FORTTRAN IV/IV-H LIBRARY (BCM)...	EXTENDED	705821	B1
FADS...INSTRUCTION DIAGNOSTIC -		730002	B1	FORTTRAN IV/IV-H LIBS. (BPM/BTM)...	EXT.	705820	B1
FAIL SAFE DIAGNOSTIC...POWER		706142	B1	FORTTRAN PRECOMPILER FORT II-FORT IVH...		890708	B3
FAIL SAFE TEST...POWER		704122	B3	FORTTRAN PROGRAMS...	XCORE - EXTRA CORE FOR	890737	B3
FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM...POWER		730022	B1	FORTTRAN RANDOM DISC...		890759	B3
FAIL-SAFE UNDER BCM...POWER		704586	B3	FORTTRAN USERS-MONITOR CALL'S...CALLS FOR		890860	B3
FAMILY INCOME CHART...	ADMIS26-	890595	B3	FORTTRAN...CHARACTER MANIPULATION ROUTINES-		890857	B3
FAST FPURGE RESTORE - BPM...		890810	B3	FORTTRAN-CALCULATOR, DESK CALC....FOCAL,		890312	B3
FAST SAVE...BPM/BTM		706296	B1	FPURGE RESTORE - BPM...FAST		890810	B3
FAST SAVE/RESTORE - CP-V...		890809	B3	FRAN...		890918	B3
FAULT LOCATOR...MEMORY DIAGNOSTIC-		705738	B3	FREEFORM...		890700	B3
FIELD EBCDIC INPUT ROUTINE...FREE-		890549	B3	FREESTANDING CONSOLE EXAMINER (FACE)...		704786	B3
FIELD FORTRAN IV INPUT SUBROUTINE...FREE		890322	B3	FREQUENCY CONTROL UNIT...HANDLER FOR 7969		705880	B3
FILE BLOCKING/UNBLOCKING ROUTINE...BLOCKER		890955	B3	FRIEDMAN TWO-WAY ANALYSIS...		890429	B3
FILE BUILD...TRANSMOG- EBCDIC BINARY		706201	B3	FUNCTION TABLE PROCESSOR...		890880	B3
FILE COMPARISON PROGRAM...SCOMPARE-SOURCE		890956	B3	FUNCTIONAL MATHEMATICAL PROG SYS (FMPS)...		705831	A1
FILE CONVERTER...IBM-XEROX APL		890832	B3	FUNCTIONS FAC AND DFAC...FACTORIAL		890735	B3
FILE COPY AND VERICARD,PUT,MT) UTIL....S/A		704782	B1	FUNCTIONS FOR SIGMA 7...INTEGER BOOLEAN		890327	B3
FILE DUMP...		890817	B3	FUR - FILE UPDATE ROUTINE...		890785	B3
FILE EDITOR (METAMEDIA)...		890531	B3	GAME...BUSINESS POLICY		890558	B3
FILE FOLDER LABELS...ADMIS2-		890679	B3	GAMES PROGRAMS...BTM DEMO -		890666	B3
FILE GENERATOR (TGEN)...TEST		706247	B1	GAMMA 3 MATRIX-GENERATOR REPORT WRITER...		705832	A1
FILE I/O ROUTINES...FORTRAN IV KEYED		890323	B3	GASP II SIMULATION PACKAGE...BPM/3		890580	B3
FILE MAINTENANCE...ACST33 LANGUAGE LAB		890655	B3	GASP II...BTM/3		890559	B3
FILE MANAGE PROCESSOR-TFM...TAPE		706122	B3	GDL)...	GRAPHIC DISPLAY LIBRARY (	706129	B3
FILE MANIPULATOR...DITTO - SIGMA UTILITY		890817	B3	GEFORT...		890699	B3
FILE PROCESSING...		890471	B3	GEM-1 GENERALIZED EVENT MEASUREMENT PROC...		705531	B3
FILE PROGRAM...DELETE RAD		890588	B3	GENERAL BALANCE DESIGNS...ANOVA -		890439	B3
FILE PURGE...		705782	B1	GENERAL DEBUG SUBROUTINE...S/A		704157	B1
FILE RETRIEVAL PROGRAM...TAPE		890796	B3	GENERAL I/O PACKAGE - GETPUT...		890698	B3
FILE UPDATE PROGRAM - ROMUP...ROM TAPE		890826	B3	GENERAL LEDGER MONTHLY STATEMENT (DP0318)...		890596	B3
FILE UPDATE ROUTINE...FUR -		890785	B3	GENERAL LEDGER PROOF...		890595	B3
FILE UTILITY SUBROUTINES...COBOL KEYED-		890598	B3	GENERAL LEDGER SYSTEM (COVER)...		890591	B3
FILE...ADMIS6-LOAD AND UPDATE ADMISSION		890682	B3	GENERAL LEDGER TOTALS (DP0311)...		890594	B3
FILE...EBCDIC-HEXDUMP MAG TAPE / RAD		890587	B3	GENERAL PAYROLL REGISTER...		890584	B3
FILE...GRAPHIC VECTOR		890872	B3	GENERAL PURPOSE DISCRETE SIMULATOR-OPDS...		706130	A1
FILE...CONTROL CARD		890843	B3	GENERALIZED ANALYSIS OF VARIANCE...ANOVA -		890440	B3
FILES (RELFILES)...	COBOL RELEASE	890599	B3	GENERALIZED EBCDIC OUTPUT ROUTINE...		890550	B3
FILES FOR FORTRAN IV...KEYED/RANDOM		890757	B3	GENERALIZED EVENT MEASUREMENT PROC...GEM-1		705531	B3
FILES IN/OUT...RAD		890614	B3	GENERATE PAPER TAPE UTILITY...		706499	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
GENERATE PAYROLL TIME REPORTS...		890573	B3	IBM-XEROX APL FILE CONVERTER...		890832	B3
GENERATOR (RPO)...XEROX REPORT PROGRAM		706419	B1	IBM-XEROX APL WORKSPACE CONVERTER...		890831	B3
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GENERATOR REPORT WRITER...GAMMA 3 MATRIX-		705832	A1	INCOME CHART...ADMIS26-FAMILY		890695	B3
GENERATOR...BATCH MONITOR CROSS REFERENCE		890147	B3	INDEXED TEXT SYSTEM...BROWSE - INTERACTIVE		890877	B3
GENERATOR...RELIABILITY PREDICTION REPORT		706456	B3	INERTIA & RADIUS OF GYRATION...MOMENTS OF		890869	B3
GENERATOR...STAND-ALONE REGISTER SAVE		704444	B1	INITIALIZATION...STAND-ALONE I/O		704853	B1
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GETCOM...COBOL SUBROUTINE		890801	B3	INPUT DIAGNOSTIC...ARGONNE HI-LEVEL ANALOG		705868	B3
GETFILE...		890546	B3	INPUT DIAGNOSTIC...ARGONNE LO-LEVEL ANALOG		705867	B3
GETKEY...COBOL SUBROUTINE		890802	B3	INPUT FILES...MULTSORT - SORT MULTIPLE		705881	B3
GETPUT...GENERAL I/O PACKAGE -		890698	B3	INPUT ROUTINE...FREE-FIELD EBCDIC		890949	B3
GO (LAG) DIAGNOSTIC PROG. SYS....LOAD-AND-		730013	B1	INPUT SUBROUTINE...FREE FIELD FORTRAN IV		890322	B3
GORDAN SUBROUTINE...CLEBSCH-		890870	B3	INPUT SUBSYSTEM...PURDUE SPECIAL ANALOG		704341	B3
GORDO TIME SHARED GRAPHICS FACILITY...		890533	B3	INSERT DEPARTMENT NUMBER...		890572	B3
GORDO) - XPL COMPILER...XPL (890799	B3	INST. SIM. PCK (S/A VERS)...UNIMPLEMENTED		704148	B1
GPDS)...GENERAL PURPOSE DISCRETE SIMULATOR-		706130	A1	INST. SIM. PCKO. BCM VERS)...UNIMPLEMENTED		704362	B1
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GRADE REPORTS...ACST2 FINAL		890647	B3	INST. SIMULATOR (S/A VERS)...FLOATING POINT		704149	B1
GRADPACK...		890866	B3	INST. TRAP HANDLER (S/A VERS)...UNIMPL.		704153	B1
GRAN...		890930	B3	INSTRUC. SIMULATOR (BCM VER)...BYTE-STRING		704365	B1
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GRAPHER...		890804	B3	INSTRUCTION DIAGNOSTIC - FADS...		730002	B1
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HANDLER FOR LOMT...STAND-ALONE I/O		704166	B1	INTERACTIVE MULTIPLE REGRESSION ANALYSIS...		890866	B3
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HANDLER FOR SIMT...STAND-ALONE I/O		704169	B1	INTERCORRELATION...AUTO-8 CROSS-LAG		890448	B3
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MOMENT / 200-300 VARIABLES...PRODUCT		890452	B3	PAYABLE TOTALS (DP0112)...YEARLY ACCOUNTS		890621	B3
MOMENT...CORRELATIONS: PRODUCT		890451	B3	PAYABLE VENDOR LABELS (DP0113)...ACCOUNTS		890622	B3
MOMENTS OF INERTIA & RADIUS OF GYRATION...		890669	B3	PAYABLES (DP0115)...DUE DATE ACCRUED		890623	B3
MONDUMP (COVER)...		708150	B1	PAYROLL CHECKS...		890566	B3
MONITOR (DPM)...DIAGNOSTIC PROGRAM		705682	B1	PAYROLL DISTRIBUTION...		890568	B3
MONITOR (RBM)...REAL-TIME BATCH		705732	B1	PAYROLL ERROR CHECK...		890565	B3
MONITOR CALL'S...CALLS FOR FORTRAN USERS-		890660	B3	PAYROLL PROOF TEST...		890577	B3
MONITOR CROSS REFERENCE GENERATOR...BATCH		890147	B3	PAYROLL QUARTERLY PROOF AND LOCAL TAX...		890575	B3
MONITOR FOR BCM...		704133	B1	PAYROLL REGISTER...GENERAL		890564	B3
MONITOR...DIAGNOSTIC PROGRAM SYSTEM		730012	B1	PAYROLL SYSTEM...		890562	B3
MONITOR...GUIDE DIAGNOSTIC		706131	B1	PAYROLL TIME REPORTS...GENERATE		890573	B3
MONITOR--1 (RBM-1)...REAL-TIME BATCH		705280	B3	PAYROLL TOTALS CONFIRMATION...		890563	B3
MONTHLY BUDGET STATEMENTS (DP0222)...		890593	B3	PAYROLL 5 CARDS...EXTRACT		890570	B3
MONTHLY STATEMENT (DP0316)...GENERAL LEDGER		890596	B3	PBX11 TELEMETRY SYSTEM...		706125	B3
MOTHER-OPERATOR CONSOLE TAPE HANDLER...		890703	B3	PCK (S/A VERS)...UNIMPLEMENTED INST. SIM.		704148	B1
MOTION - TIME CONTROL DIAGNOSTIC...TAPE		708440	B3	PCKG. BCM VERS....UNIMPLEMENTED INST. SIM.		704362	B1
MS)...STOP DIAGNOSTIC (		705722	B3	PCL (PERIPHERAL CONV. LANGUAGE)...BPM/BTH		706206	B1
MSP...		890933	B3	PCM DATA ACQUISITION PROGRAM...		705656	B3
MT)-UTIL...S/A FILE CPY AND VER(CARD,PUT,		704782	B1	PCM TELEMETRY COMPILER...SSS-SAS		705655	B3
MULTI TAPE COPY)...SMUT - (SIGMA 5/8/7		705669	B3	PCM TEST...OSO		706204	B3
MULTI-PROCESSOR EXERCISER...		705390	B3	PCM TEST...RADIATION		706203	B3
MULTIPLE CLASSIFICATION ANALYSIS...		890474	B3	PDM + ADC ACCEPTANCE TESTS FOR LTV...PAM-		705367	B3
MULTIPLE DISCRIMINANT ANALYSIS...		890475	B3	PDUMP...		890813	B3
MULTIPLE INPUT FILES...MULTSORT - SORT		705881	B3	PERFORMANCE JOB STREAM FOR CP-V...SORT		708495	B1
MULTIPLE LINEAR REGRESSION...INTERACTIVE		890836	B3	PERIPHERAL CONV. LANGUAGE)...BPM/BTH PCL (		706206	B1
MULTIPLE REGRESSION ANALYSIS...		890476	B3	PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC...		704314	B1
MULTIPLE REGRESSION ANALYSIS...INTERACTIVE		890666	B3	PERMANENT RECORDS...ACST7		890851	B3
MULTIPLE REGRESSION ANALYSIS, STEPWISE...		890477	B3	PERSPECTIVE PLOT...		890590	B3
MULTIPLE TAPE COPY PROCESSOR...		706128	B1	PET UNIT TEST PATTERN CARD DECK...JT-14		704427	B3
MULTIPLY IOP DIAGNOSTIC (MIDP)...		704057	B3	PFS) DIAGNOSTIC PROGRAM...POWER FAIL-SAFE		730022	B1
MULTISTYLUS DIAGNOSTIC...VARIAN		708438	B3	PHORMER - DATAFORM GENERATOR BY PLOTTER...		890534	B3
MULTISORT - SORT MULTIPLE INPUT FILES...		705881	B3	PLANT SECURITY CONTROL PACKAGE...		706508	B3
MUNSELL COLOR TRANSLATOR...TRISTIMULUS TO		890878	B3	PLOT DRIVER PACKAGE...		890387	B3
NAME PROGRAM...BLDNAME - S-O-P STUDENT		890583	B3	PLOT SUBROUTINE...LINE PLOTTER		890676	B3
NAME PROGRAM...BLDCRSE-S-O-P COURSE		890582	B3	PLOT SUBROUTINE...LINE PRINTER		705390	B3
NASA/BALL MODEL XPS-95 DEMO PROGRAM...		705843	B3	PLOT SUBROUTINE...PRINTER		890713	B3
NASA/BALL MODEL XPS-95 HANDLER...		705818	B3	PLOT...PERSPECTIVE		890590	B3
NEED MATRICES...ADMIS25-FINANCIAL		890694	B3	PLOT)...CALCOMP PLOTTING SUBROUTINE (		704066	B3
NEW SYSTEM EXERCISER (SEX)...		705889	B1	PLOTTER COPY...GRAPHIC DISPLAY TO		705652	B3
NON-ACADEMIC STATISTICS LISTINGS...ACST1		890646	B3	PLOTTER HANDLER...		890739	B3
NONLABELING...BTH PLOTTING PACKAGE		890707	B3	PLOTTER LABELING SUBR (LABEL)...CALCOMP		704061	B3
NS LINE PRINTER DIAGNOSTIC...		706473	B1	PLOTTER PLOT SUBROUTINE...LINE		890676	B3
NUMBER...INSERT DEPARTMENT		890572	B3	PLOTTER SUBROUTINE PACKAGE...CALCOMP		890732	B3
NUMERICAL CONTROL PROGRAM...ADAPT -		890747	B3	PLOTTER TEST...GRAPH		704050	B1
NUMERICAL SUBROUTINE PACKAGE (COVER)...XDS		890000	B3	PLOTTER...PHORMER - DATAFORM GENERATOR BY		890534	B3
OBJECT LANGUAGE EATER...SOLE: SIGMA		890940	B3	PLOTTER...SYMBOL LAB. ROUTINE FOR CALCOMP		890388	B3
OCF DIAGNOSTIC CONTROL PROG...STAND-ALONE		708472	B1	PLOTTING PACKAGE NONLABELING...BTH		890707	B3
OLMP)...UTS ON-LINE MAINTENANCE PACKAGE (		705884	B1	PLOTTING PACKAGE...CALCOMP		890738	B3
ONLINE PREREGISTRATION PROG...SOP-STUDENT		890581	B3	PLOTTING PACKAGE...7530/7531		705657	B3
OPERATING SYSTEM...BCM		704144	B1	PLOTTING PROGRAM...INTERACTIVE		890640	B3
OPERATING SYSTEM...BPM/BTH		705000	B1	PLOTTING SUBROUTINE (PLOT)...CALCOMP		704060	B3
OPERATOR CONSOLE TAPE HANDLER...MOTHER-		890703	B3	POLICY GAME...BUSINESS		890550	B3
OPTICAL CHARACTER PRINTER TEST PROGRAM...		706411	B1	POLYNOMIAL CURVE FITTING...		890635	B3
ORIENTED COMMUNICATION TEST...CHARACTER		704016	B1	PORT TEST C01...		706271	B1
ORIENTED LANGUAGE...SOL-SIMULATION-		890383	B3	POSITION TAPE PROGRAM (POST)...		705425	B3
ORIENTED MANAGE...MANAGE AND TERMINAL		705783	A1	POSITION TAPE PROGRAM FOR 7T/8T...		890728	B3
ORIENTED MERGE & SORT...TOMAS-TERMINAL		890786	B3	POST)...POSITION TAPE PROGRAM (		705425	B3
OSCILLATOR (VCO)...HANDLER FOR TUNABLE		706228	B3	POSTPROCESSOR...APT3 (LEVEL 3) LATHE		891000	B3
OSO PCM TEST...		706204	B3	POTTER LINE PRINTER TEST PROG...192 CHAR		705428	B3
OUT AID AND READINESS TEST (CART)...CHECK		705668	B3	POWER FAIL SAFE DIAGNOSTIC...		708142	B1
OUT AID READINESS...CART-3 CHECK-		706205	B3	POWER FAIL SAFE TEST...		704122	B3
OUT...RAD FILES IN/		890614	B3	POWER FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM...		730022	B1
OUTSTANDING CHECK LISTING (DP0512)...		890597	B3	POWER FAIL-SAFE UNDER BCM...		704596	B3
OVER 32K)...SYMMETRIC LIST PROCESSOR (		890145	B3	PRECOMPILER FORT II-FORT IVH...FORTRAN		890708	B3
OVERLAPPED I/O PACKAGE...BLOCKED AND		890967	B3	PREDICTION CALCULATION...RELIABILITY		708455	B3
OVERLAY LOADER...RBM		705733	B1	PREDICTION CREATE/UPDATE...RELIABILITY		708454	B3
PACK...FORTIV-SCATTER READ/WRITE MAG TAPE		890589	B3	PREDICTION REPORT GENERATOR...RELIABILITY		708456	B3
PAGE BURSTER...		890797	B3	PREP (HCP)...CPU HARD CORE		706284	B1
PAGED FORTRAN ARRAYS...DEMAND		890881	B3	PREPROCESSOR...DETAB/85		890702	B3
PAK...UTS FORM DATA ENTRY PACKAGE - FORM		890820	B3	PREREGISTRATION PROG...SOP-STUDENT ONLINE		890581	B3
PAL-KWIC...		706126	B3	PRINCIPLE COMPONENTS)...FACTOR ANALYSIS (		890460	B3
PAM-PDM + ADC ACCEPTANCE TESTS FOR LTV...		705367	B3	PRINT DUMP...		705757	B3
PANAVIA CART...		706441	B3	PRINT FORMS PROCESSOR...		890815	B3
PANAVIA DIAGNOSTIC UTILITY...		708439	B3	PRINT LABELED TAPE...		705678	B1
PANAVIA TMS09A DIAGNOSTIC...		706442	B3	PRINT UTILITY...FLASH - TAPE TO		890938	B3
PAPER TAPE COPY & VERIFY PROGRAM-UTILITY...		704422	B1	PRINT...SNEAK-ON MEMORY		705775	B3
PAPER TAPE READ PROGRAM - TRANSLT...		890833	B3	PRINT/COPY UTILITY - ATTACK...		706119	B3
PAPER TAPE READER/PUNCH TEST...		704069	B1	PRINTER DIAGNOSTIC PROGRAM...LINE		730017	B3
PAPER TAPE UTILITY...GENERATE		706499	B3	PRINTER DIAGNOSTIC...NS LINE		706473	B1
PAPERCHG...COBOL SUBROUTINE		890605	B3	PRINTER DIAGNOSTIC...2230/2470 LINE		708471	B3
PAPLIST...		890754	B3	PRINTER EXERCISER FOR CP-R...LINE		708004	B1
PARTIAL CORRELATIONS...		890428	B3	PRINTER OR TYPEWRITER...MESSAGE WRITER FOR		890383	B3
PARTIAL WORD MANIPULATION OR TEST...		890662	B3	PRINTER PLOT SUBROUTINE...		890713	B3
PASS AND EXECUTE (LOPE) BPM...LOAD ONE		705260	B1	PRINTER PLOT SUBROUTINE...LINE		705380	B3
PATCH DCB...		890783	B3	PRINTER TEST (ASR/KSR)...KEYBOARD		705651	B1
PATH...INTERACTIVE CRITICAL		890834	B3	PRINTER TEST PROG...192 CHAR POTTER LINE		705428	B3
PATTERN CARD DECK...JT-14 PET UNIT TEST		704427	B3	PRINTER TEST PROGRAM...OPTICAL CHARACTER		706411	B1
PATTERN)...CPU DIAGNOSTIC SYSTEM (		704043	B3	PRINTER TEST...COMPREHENSIVE LINE		706167	B1
PAYABLE CHECK REGISTER (DP0118)...ACCOUNTS		890624	B3	PRINTER TEST...88-CHARACTER ANALEX LINE		705731	B1

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
	PROCEDURAL HANDLER...XEROX DISPLAY STATION	706263	B1		REFERENCE SYMBOL LISTING PROG...CROSS	890157	B3
	PROCEDURE DECK FOR SCU...META-SYMBOL	706450	B1		REGISTER (DP0118)...ACCOUNTS PAYABLE CHECK	890824	B3
	PROCEDURES - SYSTEM BPM...BPM USER	704768	B1		REGISTER SAVE GENERATOR...STAND-ALONE	704444	B1
	PROCEDURES FOR ASSEMBLY OF SIGMA 2 PROG...	890615	B3		REGISTER...DEDUCTION	890569	B3
	PROCEDURES...CATALOG	890818	B3		REGISTER...GENERAL PAYROLL	890564	B3
	PROCEDURES...DATADEF SYSTEMS PROGRAMMING	705673	B1		REGISTER...SPECIAL DEDUCTION	890571	B3
	PROCEDURES...SYSTEM FORTCOMP	705360	B1		REGISTRAR SYSTEM...	890845	B3
	PROCESSING...FILE	890471	B3		REGISTRATION STATISTICS PACKAGE...	890319	B3
	PROCESSING...LISP 1.5-LANGUAGE FOR LIST	890366	B3		REGRESSION ANALYSIS...INTERACTIVE MULTIPLE	890866	B3
	PROCESSOR (DMSREST)...EDMS RESTRUCTURING	706498	B1		REGRESSION ANALYSIS...MULTIPLE	890478	B3
	PROCESSOR (IDP)...INTERACTIVE DATABASE	706466	B1		REGRESSION ANALYSIS, STEPWISE...MULTIPLE	890477	B3
	PROCESSOR (OVER 32K)...SYMMETRIC LIST	890145	B3		REGRESSION PROGRAM...INTERACTIVE STEPWISE	890867	B3
	PROCESSOR (32K)...SYMMETRIC LIST	890144	B3		REGRESSION...INTERACTIVE MULTIPLE LINEAR	890836	B3
	PROCESSOR EXERCISER...MULTI-	705390	B3		REGULAR & X SERIES...UCLA BIOMEDICAL PROG.	890890	B3
	PROCESSOR WITH SHELL SORT...MAP	890752	B3		RELABELER&REFORMATTER...RELABL-SOURCE DECK	890874	B3
	PROCESSOR...CONTROL MESSAGE	704124	B1		RELABL-SOURCE DECK RELABELER&REFORMATTER..	890874	B3
	PROCESSOR...EXPAND	890777	B3		RELATING...FACTOR	890468	B3
	PROCESSOR...FUNCTION TABLE	890808	B3		RELEASE FILES (RELFILES)...COBOL	890599	B3
	PROCESSOR...MULTIPLE TAPE COPY	706128	B1		RELFILES)...COBOL RELEASE FILES (	890599	B3
	PROCESSOR...PRINT FORMS	890815	B3		RELIABILITY PREDICTION CALCULATION...	708455	B3
	PROCESSOR...QUERY SCHEMA	890779	B3		RELIABILITY PREDICTION CREATE/UPDATE...	708454	B3
	PROCESSOR...RBM COPY	890794	B3		RELIABILITY PREDICTION REPORT GENERATOR...	708456	B3
	PROCESSOR-TFM...TAPE FILE MANAGE	706122	B3		RELOCATABLE DIAGNOSTIC PROGRAM LOADER...	704356	B3
	PROCR...SIGMA ACCOUNTING SYSTEM SUMMARY	705689	B3		REMOTE BATCH TERMINAL TEST PROGRAM...	704983	B1
	PROCS INTRFACE UNIT DIAG-SUPI...SYS UNIT/	730009	B1		REMOTE GUIDE...	708267	B1
	PROCUREMENT STATUS (APS) SYS...AUTOMATED	890895	B3		REMOTE JOB ENTRY...MASP	890784	B3
	PRODUCT MOMENT / 200-300 VARIABLES...	890452	B3		REMOVABLE DISC STORAGE TEST...	705534	B1
	PRODUCT MOMENT...CORRELATIONS:	890451	B3		REMOVABLE DISK STORAGE TEST...	708424	B1
	PROFILE BY SAT AND RANK...ADMIS20-	890691	B3		REPORT GENERATOR...RELIABILITY PREDICTION	708456	B3
	PROFILE SHEET...ADMIS11-APPLICANT	890684	B3		REPORT PROGRAM GENERATOR (RPG)...XEROX	708419	B1
	PROGRAM...BLDNAME - S-O-P STUDENT NAME	890583	B3		REPORT RECORD...CREATE QUARTERLY	890574	B3
	PROGRAMMING CODE...SIGMA 5/7 MFOR LINEAR	890146	B3		REPORT WRITER...GAMMA 3 MATRIX-GENERATOR	705832	A1
	PROGRAMMING PROCEDURES...DATADEF SYSTEMS	705673	B1		REPORT...ACST34 LANGUAGE LAB WEEKLY	890856	B3
	PROGRAMS...BTM DEMO - GAMES	890666	B3		REPORT...SOCIAL SECURITY QUARTERLY	890578	B3
	PROGRAMS...XCORE - EXTRA CORE FOR FORTRAN	890737	B3		REPORTS...ACST2 FINAL GRADE	890847	B3
	PROJECT MANAGEMENT SYSTEM (SPMS)...SIGMA	890718	B3		REPORTS...ADMIS17-SHORT WEEKLY	890869	B3
	PROOF AND LOCAL TAX...PAYROLL QUARTERLY	890575	B3		REPORTS...GENERATE PAYROLL TIME	890573	B3
	PROOF TEST...PAYROLL	890577	B3		RESTART PROGRAM...COBOL	890717	B3
	PROOF...GENERAL LEDGER	890595	B3		RESTORE - BPM...FAST FPUROE	890810	B3
	PROTECT DIAGNOSTIC...MEMORY	704062	B3		RESTORE - CP-V...FAST SAVE/	890809	B3
	PUNCHED CARD COPY/VERIFY PROGRAM...CCOPY-	890727	B3		RESTORE PROGRAM...SYSTEM SAVE/	708280	B1
	PURDUE SPECIAL ANALOG INPUT SUBSYSTEM...	704341	B3		RESTORE ROUTINE-UTIL...STD-ALONE DISC SAVE	704781	B1
	PURGE...FILE	705782	B1		RESTORE/AUTO BOOT...SYSTEM DISC DUMP/	890734	B3
	PURPOSE DISCRETE SIMULATOR-OPDS...GENERAL	706130	B1		RESTRUCTURING PROCESSOR (DMSREST)...EDMS	708498	B1
	PUT,MT)-UTIL...S/A FILE CPY AND VERCARD,	704782	B1		RETRIEVAL PACKAGE (DARP)...DATA	705869	B3
	QUARTERLY PROOF AND LOCAL TAX...PAYROLL	890575	B3		RETRIEVAL PROGRAM...TAPE FILE	890796	B3
	QUARTERLY REPORT RECORD...CREATE	890574	B3		RETRIEVAL SUBROUTINES...DATA	708233	B3
	QUARTERLY REPORT...SOCIAL SECURITY	890576	B3		RETRIEVE (CSR)...CARD STORE/	705870	B1
	QUERY SCHEMA PROCESSOR...	890779	B3		REVISED MAG TAPE COPY - VERIFY PROGRAM...	705882	B3
	QUEUE EXCHANGER...BATQXCH - BATCH	890928	B3		RJE (XCDRJE)...XEROX TO CONTROL DATA	890910	B3
	RADIATION PCM TEST...	706203	B3		RMC...ROTATING MEMORY TEST PROGRAM -	708249	B1
	RADIUS OF GYRATION...MOMENTS OF INERTIA &	890869	B3		ROM BREAKDOWN TRANSLATOR (ROMBUST)...	890143	B3
	RANDOM DISC...FORTRAN	890759	B3		ROM TAPE FILE UPDATE PROGRAM - ROMUP...	890826	B3
	RANDOM FILES FOR FORTRAN IV...KEYED/	890757	B3		ROMBUST)...ROM BREAKDOWN TRANSLATOR (	890143	B3
	RANDOM...	705715	B3		ROMLIB...	890982	B3
	RANDOMIZED...SIMPLE	890446	B3		ROMUP...ROM TAPE FILE UPDATE PROGRAM -	890826	B3
	RANK...ADMIS20-PROFILE BY SAT AND	890691	B3		ROSTERS...ACST3 CLASS	890648	B3
	RATIOS...T-TESTS AND F-	890481	B3		ROTATING MEMORY TEST PROGRAM - RMC...	708249	B1
	RBM COPY PROCESSOR...	890794	B3		ROTATION...FACTOR	890468	B3
	RBM ERROR LOG LISTER...	706467	B3		ROTATION...FACTOR ANALYSIS WITH	890465	B3
	RBM MACRO-SYMBOL ASSEMBLER...	705781	B3		ROUTINES (ADCHIGH)...ADC HIGH LEVEL	708231	B3
	RBM METASYMBOL...	890812	B3		ROUTINES (ADCLOW)...ADC LOW LEVEL	708232	B3
	RBM MOC HANDLER...	706113	B3		ROUTINES...ALTRAN RUN-TIME	890846	B3
	RBM OVERLAY LOADER...	705733	B1		ROUTINES...FORTRAN IV KEYED FILE I/O	890323	B3
	RBM RAD EDITOR...	705734	B1		ROUTINES...SCU ASSEMBLER LIBRARY	890626	B3
	RBM SORT...	890793	B3		ROUTINES...SPECIAL FORT-SYMBOL INTERFACE	705896	B3
	RBM (VERSION)...EXTENDED FORTRAN IV-H (	705776	B1		ROUTINES--FORTRAN...CHARACTER MANIPULATION	890857	B3
	RBM (VERSION)...SL-1 TRANSLATOR (	706117	A1		ROUTN-UTIL...MEDIA CONVERSION AND EDITOR	704784	B1
	RBM (VERSION)...SYMBOL ASSEMBLER (	705846	B1		RPG)...XEROX REPORT PROGRAM GENERATOR (	708419	B1
	RBM...SYSTEM	890958	B3		RUN-TIME DIAGNOSTIC DEMO...FORTRAN IV	705391	B3
	RBM)...EXTENDED FORTRAN IV/IV-H LIB. (	705738	B1		RUN-TIME ROUTINES...ALTRAN	890848	B3
	RBM)...REAL-TIME BATCH MONITOR (	705732	B1		RUN-TIME TRACE...	705784	B3
	RBM-1)...REAL-TIME BATCH MONITOR--1 (	705280	B3		SAFE (PFS) DIAGNOSTIC PROGRAM...POWER FAIL	730022	B1
	RBM/BPM HANDLER FOR MOCD'S...	706259	B1		SAFE DIAGNOSTIC...POWER FAIL	708142	B1
	RBPRIINT...	890756	B3		SAFE TEST...POWER FAIL	704122	B3
	READ PROGRAM - TRANSLT...PAPER TAPE	890333	B3		SAFE UNDER BCM...POWER FAIL-	704596	B3
	READ/WRITE MAG TAPE PACK...FORTIV-SCATTER	890589	B3		SALIO)...STAND-ALONE I/O CONTROL PROGRAM (	704387	B1
	READINESS TEST (CART)...CHECK OUT AID AND	705668	B3		SAS PCM TELEMETRY COMPILER...SSS-	705655	B3
	READINESS...CART-3 CHECK-OUT AID	706205	B3		SAT AND RANK...ADMIS20-PROFILE BY	890691	B3
	RECEIPT FORM...ADMIS1-	890678	B3		SAVE GENERATOR...STAND-ALONE REGISTER	704444	B1
	RECEIVABLE (DP0911)...BOOKSTORE ACCOUNTS	890630	B3		SAVE...BPM/BTM FAST	708296	B1
	RECEIVABLE BILLING-DP0721...ACCOUNTS	890628	B3		SAVE-RESTORE ROUTINE-UTIL...STD-ALONE DISC	704781	B1
	RECEIVABLE SYSTEM (COVER)...ACCOUNTS	890626	B3		SAVE/RESTORE - CP-V...FAST	890809	B3
	RECEIVABLE TRIAL BALANCE-DP0716...ACCOUNTS	890627	B3		SAVE/RESTORE PROGRAM...SYSTEM	706280	B1
	RECOMMENDED SPARES...	706457	B3		SAVER...BTM MESSAGE	705773	B3
	RECORD...CREATE QUARTERLY REPORT	890574	B3		SCARE- CARD READER SYMB. START...BPM SELF	890585	B3
	RECORDING AND TIMING SYSTEM...ATP FOR DATA	705675	B1		SCATTER READ/WRITE MAG TAPE PACK...FORTIV	890589	B3
	RECORDS...ACST7 PERMANENT	890651	B3		SCATTERGRAM HISTOGRAM...	890433	B3
	RECORDS...ADMIS27-SELECTIVE COMPRESSED	890696	B3		SCHEDULE...AUTO	890954	B3
	REFERENCE GENERATOR...BATCH MONITOR CROSS	890147	B3		SCHEDULES...ACST5 CLASS	890650	B3
	REFERENCE PROGRAM...FORTRAN CROSS	890545	B3		SCHEMA PROCESSOR...QUERY	890779	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
SCHOOL COUNSELOR ENVELOPE...	ADMISS-HIGH	890681	B3	SORT...MAP PROCESSOR WITH SHELL		890752	B3
SCHOOL ENROLLMENT...ADMISSIONS SYSTEM FOR		890677	B3	SORT...RBM		890793	B3
SCHOOL LIST...ADMISS14-HIGH		890686	B3	SORT...TOMAS-TERMINAL ORIENTED MERGE &		890786	B3
SCOMPARE-SOURCE FILE COMPARISON PROGRAM...		890956	B3	SORT/MERGE FOR BPM/BTM...		704985	B1
SCORE KEEPER FOR CONTINUING TOURNAMENTS...		890706	B3	SORTED LIST MOD...CP-V/CP-R-CHRONOLOGICAL/		708008	B1
SCORING...FACTOR		890470	B3	SOURCE DECK RELABELER&REFORMATTER...RELABL		890674	B3
SCORING...TEST		890479	B3	SOURCE FILE COMPARISON PROGRAM...SCOMPARE-		890956	B3
SCU ASSEMBLER LIBRARY ROUTINES...		890626	B3	SOURCE MERGE PROGRAM...COMPRESSED		890326	B3
SCU INTERPRETER...		706437	B3	SOURCE PROGRAM COMPARED...METASYMBOL		890676	B3
SCU LINKING LOADER...		706489	B3	SOURCE UPDATE EDITOR - UTILITY...S/A COMP/		704785	B1
SCU...META-SYMBOL PROCEDURE DECK FOR		706450	B1	SOURCE-LISTING MAG TAPE...UTILITY		704397	B1
SEARCH...COBOL SUBROUTINE BINARY		890807	B3	SPARES...RECOMMENDED		706457	B3
SECURITY CONTROL PACKAGE...PLANT		706508	B3	SPLURGE FOR BPM...		890826	B3
SECURITY QUARTERLY REPORT...SOCIAL		890578	B3	SPLURGE FOR UTS...		890829	B3
SELECTION...ENTITY		890459	B3	SPMS...SIGMA PROJECT MANAGEMENT SYSTEM (		890718	B3
SELECTIVE ALUMNI...ALUMN		890842	B3	SQUARES CURVE FITTING...INTERACTIVE LEAST		890865	B3
SELECTIVE COMPRESSED RECORDS...ADMISS27-		890696	B3	SQUARES...AXB LEAST		890474	B3
SELECTIVE DUMP - UTILITY...STAND-ALONE		704779	B1	SQUARES, CONTING. COEFF...CROSS TABS, CHI		890454	B3
SELECTIVE ENVELOPES/LABELS...ADMISS15-		890687	B3	SSS-SAS PCM TELEMETRY COMPILER...		705655	B3
SELECTIVE LISTINGS...ADMISS16-		890686	B3	SST)...LABELED SOFTWARE SUPPORT TAPE (		890832	B1
SELECTOR IOP TEST PROGRAM...		704788	B3	SST)...UNLABELED SOFTWARE SUPPORT TAPE (		890830	B1
SELF SCARE- CARD READER SYMB. START...BPM		890585	B3	STAND-ALONE COMMON SOFTWARE PACKAGE...BCM/		704127	B1
SELF-TEST...MAINTENANCE SUBCONTROLLER		705723	B3	STAND-ALONE ERROR LOG ANALYZER FOR BPM...		705677	B1
SEQ...EDIT DATA CARDS FOR ILLEG.PUNCHES &		890458	B3	STAND-ALONE I/O CONTROL PROGRAM (SALIO)...		704367	B1
SEQUENCE PROGRAM - UTILITY...COPY AND		704396	B1	STAND-ALONE I/O HANDLER FOR BOMT...		704173	B1
SEQUENTIAL SUBROUTINE...COBOL ADD		890604	B3	STAND-ALONE I/O HANDLER FOR BONO...		704183	B1
SERIES SIMULATOR...1400		705261	B1	STAND-ALONE I/O HANDLER FOR BOPP...		704171	B1
SERIES...UCLA BIOMEDICAL PROG.-REGULAR & X		890890	B3	STAND-ALONE I/O HANDLER FOR LOLL...		704185	B1
SEX)...NEW SYSTEM EXERCISER (		705889	B1	STAND-ALONE I/O HANDLER FOR LOMT...		704186	B1
SFRAN...		890941	B3	STAND-ALONE I/O HANDLER FOR LONY...		704184	B1
SHARED GRAPHICS FACILITY...GORDO TIME		890533	B3	STAND-ALONE I/O HANDLER FOR LOTY...		704187	B1
SHC DIAGNOSTIC...SOFTWARE HARDWARE (		730008	B1	STAND-ALONE I/O HANDLER FOR SICR...		704188	B1
SHEET...ADMISS1-APPLICATION PROFILE		890684	B3	STAND-ALONE I/O HANDLER FOR SIMT...		704189	B1
SHELL SORT...MAP PROCESSOR WITH		890752	B3	STAND-ALONE I/O HANDLER FOR SIPR...		704170	B1
SHORT WEEKLY REPORTS...ADMISS17-		890689	B3	STAND-ALONE I/O INITIALIZATION...		704853	B1
SICR...STAND-ALONE I/O HANDLER FOR		704168	B1	STAND-ALONE I/O HANDLER FOR BOCP...		704172	B1
SIG 5/7 (STAND-ALONE)...CARD LISTER USING		890554	B3	STAND-ALONE LOADER WITH I/O HANDLERS...		704142	B1
SIGNIFICANCE TEST...BINOMIAL		890449	B3	STAND-ALONE MAG TAPE OR DISC DUMP-UTIL....		704786	B1
SIM. PCK (S/A VERS)...UNIMPLEMENTED INST.		704148	B1	STAND-ALONE MCP DIAGNOSTIC CONTROL PROG...		706472	B1
SIM. PKG. BCM VERS...UNIMPLEMENTED INST.		704362	B1	STAND-ALONE RAD EDITOR...		890733	B3
SIMPAC...DISCRETE SIMULATION PACKAGE -		890837	B3	STAND-ALONE REGISTER SAVE GENERATOR...		704444	B1
SIMPLE RANDOMIZED...		890446	B3	STAND-ALONE SELECTIVE DUMP - UTILITY...		704779	B1
SIMT...STAND-ALONE I/O HANDLER FOR		704169	B1	STAND-ALONE SYMBOL ASSEMBLER...		704180	B1
SIMULATION PACKAGE - SIMPAC...DISCRETE		890837	B3	STAND-ALONE SYSTEM EXERCISER (SWAP 3.2)...		705680	B3
SIMULATION PACKAGE...BPM/3 GASP II		890560	B3	STAND-ALONE SYSTEM LOADER...		704162	B1
SIMULATION PROGRAM...ANALOG DIGITAL		890561	B3	STAND-ALONE VOLUME INITIALIZER-VOLINIT...		706226	B1
SIMULATION...BIRD WHISTLING-		890557	B3	STAND-ALONE)...CARD LISTER USING SIG 5/7 (		890554	B3
SIMULATION...INTERACTIVE CONTINUOUS		890838	B3	STANDARD...DELETE		890768	B3
SIMULATION-ORIENTED LANGUAGE...SOL-		890363	B3	STANFORD DMS10 DIRECT TO MEMORY DIAO...		705295	B3
SIMULATOR (BCM VER)...DECIMAL INSTRUCTION		704364	B1	START...BPM SELF SCARE- CARD READER SYMB.		890585	B3
SIMULATOR (BCM VER)...BYTE-STRING INSTRU.		704365	B1	STATE...ADMISS19-STATISTICS BY		890690	B3
SIMULATOR (BCM VER)...FLOATING POINT INST.		704363	B1	STATEMENT (DP0318)...GENERAL LEDGER MONTHLY		890596	B3
SIMULATOR (BCM)...CONVERT INSTRUCTION		704366	B1	STATEMENTS (DP0222)...MONTHLY BUDGET		890593	B3
SIMULATOR (S/A VERS)...FLOATING POINT INST.		704149	B1	STATEMENTS (DP0913)...BOOKSTORE		890631	B3
SIMULATOR (S/A VERS)...DECIMAL INSTRUCTION		704150	B1	STATION PROCEDURAL HANDLER...XEROX DISPLAY		706263	B1
SIMULATOR (S/A)...BYTE-STRING INSTRUCTION		704151	B1	STATISTICAL PACKAGE...VUL2-VANDERBILT		890408	B3
SIMULATOR (S/A)...CONVERT INSTRUCTION		704152	B1	STATISTICAL PACKAGE-BMD...UCLA BIOMEDICAL		890850	B3
SIMULATOR FORMATTED TAPE FILES...SORT 1400		705882	B3	STATISTICS BY STATE...ADMISS19-		890690	B3
SIMULATOR...TIMESHARING		890944	B3	STATISTICS LISTINGS...ACST1 NON-ACADEMIC		890646	B3
SIMULATOR...1400 SERIES		705261	B1	STATISTICS PACKAGE...REGISTRATION		890310	B3
SIMULATOR-OPDS...GENERAL PURPOSE DISCRETE		706130	B1	STATUS (APS) SYS...AUTOMATED PROCUREMENT		890699	B3
SIMULTANEOUS LINEAR EQUATIONS...		890478	B3	STD-ALONE DISC SAVE-RESTORE ROUTINE-UTIL...		704781	B1
SIM519...		890873	B3	STEPWISE REGRESSION PROGRAM...INTERACTIVE		890867	B3
SINGLE CARD...UTILITIES,		890659	B3	STEPWISE...MULTIPLE REGRESSION ANALYSIS,		890477	B3
SIOP DIAGNOSTIC (MS)...		705722	B3	STORAGE TEST...REMOVABLE DISC		705534	B1
SIPR...STAND-ALONE I/O HANDLER FOR		704170	B1	STORAGE TEST...REMOVABLE DISK		706424	B1
SIU DIAGNOSTIC PROGRAM...7930/7931/7935		704211	B1	STORE/RETRIEVE (CSR)...CARD		705879	B1
SIU DIAGNOSTIC PROGRAM...ADS-10 ANALOG		705887	B1	STREAM CARD LISTER...BATCH		890714	B3
SIU DIAGNOSTIC PROGRAM...7910/14/15		704236	B1	STREAM FOR CP-V...SORT PERFORMANCE JOB		706495	B1
SIU DIAGNOSTIC PROGRAM...7922		704214	B1	STRING INSTRU. SIMULATOR (BCM VER)...BYTE		704385	B1
SIU DIAGNOSTIC PROGRAM...7923/28/29		705392	B1	STRING INSTRUCTION SIMULATOR (S/A)...BYTE-		704151	B1
SIU HANDLER (FORTRAN IV-H)...7910		705891	B3	STUDENT MASTER...ACST4 HEAT TRANSFER		890648	B3
SIU HANDLER...7929 AND 7935		706143	B3	STUDENT NAME PROGRAM...BLDNAME - S-O-P		890583	B3
SIU 7923 HANDLER...		705854	B3	STUDENT ONLINE PREREGISTRATION PROG...SOP		890581	B3
SKD DIAGNOSTIC...SYSTEM KEYBOARD DISPLAY		706236	B1	SUBCONTROLLER SELF-TEST...MAINTENANCE		705723	B3
SL-1 TRANSLATOR (BPM/BTM/UTS VERSION)...		706118	A1	SUBCONTROLLER...MIOP WITH MAINTENANCE		705721	B3
SL-1 TRANSLATOR (RBM VERSION)...		706117	A1	SUBR (LABEL)...CALCOMP PLOTTER LABELLING		704081	B3
SMUT - (SIGMA 5/8/7 MULTI TAPE COPY)...		705869	B3	SUBR FOR COBOL...TIMER ELAPSED TIME		890789	B3
SNAP TRANSLATOR...		890547	B3	SUBSYSTEM CCS...ON-LINE COMPUTER CENTER		706436	B1
SNEAK-ON MEMORY PRINT...		705775	B3	SUBSYSTEM...PURDUE SPECIAL ANALOG INPUT		704341	B3
SNOBOL4 VERSION 3.7...		890823	B3	SUFFIX...INSTRUCTION DIAGNOSTIC -		730001	B1
SNOBOL4...INTERACTIVE		890673	B3	SUFFIX)...CPU DIAGNOSTIC (		706134	B1
SNOBOL4...XDS		705848	B3	SUFFIX)...SIGMA 5 CPU DIAGNOSTIC (		704045	B3
SOCIAL SECURITY QUARTERLY REPORT...		890576	B3	SUMM...ACST12 GEOGRAPHICAL DISTRIBUTION		704174	B3
SOLE; SIGMA OBJECT LANGUAGE EATER...		890940	B3	SUMMARY MODULE FOR ELLA...CP-V/CP-R-ERROR		890653	B3
SOP-STUDENT ONLINE PREREGISTRATION PROG...		890581	B3	SUMMARY PROCR...SIGMA ACCOUNTING SYSTEM		708010	B1
SORT AND MERGE...XEROX		706102	B1	SUMMARY...UTS ACCOUNTING		705699	B3
SORT INTERFACE...		890730	B3	SUPER SWAP (102)...		890787	B3
SORT MULTIPLE INPUT FILES...MULTSORT -		705881	B3	SUPI...SYS UNIT/PROCS INTRFACE UNIT DIAO-		706148	B1
SORT PERFORMANCE JOB STREAM FOR CP-V...		706495	B1	SUPPORT TAPE (SST)...LABELED SOFTWARE		730009	B1
SORT 1400 SIMULATOR FORMATTED TAPE FILES...		705882	B3			890832	B1

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
	SUPPORT TAPE (SST)...UNLABELED SOFTWARE	880830	B1		TRANSIENT...CIRC-	706253	B1
	SHAP (102)...SUPER	706146	B1		TRANSLATION TABLE...BCD/EBCDIC	704855	A1
	SHAP 3.2)...STAND-ALONE SYSTEM EXERCISER (	705680	B3		TRANSLATOR (BPM/BTM/UTS VERSION)...SL-1	708118	A1
	SWITCH SYS...COC HANDLER FOR XEROX MESSAGE	705726	B3		TRANSLATOR (RBM VERSION)...SL-1	708117	A1
	SWITCHING EQUIP. DIAGNOSTIC...PERIPHERAL	704314	B1		TRANSLATOR (ROMBUST)...ROM BREAKDOWN	890143	B3
	SYMB. START...BPM SELF SCARE- CARD READER	890585	B3		TRANSLATOR TEST...TIME CODE	706235	B3
	SYMBOL ASSEMBLER (RBM VERSION)...	705846	B1		TRANSLATOR...SNAP	890547	B3
	SYMBOL ASSEMBLER (COVER)...META-	704428	B1		TRANSLATOR...TRISTIMULUS TO MUNSELL COLOR	890878	B3
	SYMBOL ASSEMBLER FOR BCM...	704158	B1		TRANSLT...PAPER TAPE READ PROGRAM -	890833	B3
	SYMBOL ASSEMBLER FOR BPM/BTM...	704159	B1		TRANSMOG- EBCDIC BINARY FILE BUILD...	706201	B3
	SYMBOL ASSEMBLER...RBM MACRO-	705781	B3		TRAP DIAGNOSTIC PROGRAM...	730021	B1
	SYMBOL ASSEMBLER...SIOMA 2 BASIC	890672	B3		TRAP DIAGNOSTIC...INTERRUPT/	708137	B1
	SYMBOL ASSEMBLER...STAND-ALONE	704160	B1		TRAP HANDLER (S/A VERS)...UNIMPL. INST.	704153	B1
	SYMBOL INTERFACE ROUTINES...SPECIAL FORT-	705896	B3		TRIAL BALANCE (DP0917)...BOOKSTORE	890833	B3
	SYMBOL LAB. ROUTINE FOR CALCOMP PLOTTER...	890388	B3		TRIAL BALANCE DP0215...DISTRIBUTION LEDGER	890592	B3
	SYMBOL LISTING PROG...CROSS REFERENCE	890157	B3		TRIAL BALANCE-DP0716...ACCOUNTS RECEIVABLE	890627	B3
	SYMBOL PROCEDURE DECK FOR SCU...META-	706450	B1		TRISTIMULUS TO MUNSELL COLOR TRANSLATOR...	890878	B3
	SYMCON (BPM/BTM)...	890942	B3		TUNABLE OSCILLATOR (VCO)...HANDLER FOR	706228	B3
	SYMMETRIC LIST PROCESSOR (OVER 32K)...	890145	B3		TYPE EXT. ANAL. OF VARIANCE...LINDQUIST	890445	B3
	SYMMETRIC LIST PROCESSOR (32K)...	890144	B3		TYPE I ANAL. OF VARIANCE...ANOVA-LINDQUIST	890441	B3
	SYS (FMPS)...FUNCTIONAL MATHEMATICAL PROG	705831	A1		TYPE III EXTENDED...ANOVA - LINDQUIST	890443	B3
	SYS UNIT/PROCS INTRFACE UNIT DIAG-SUPI...	730009	B1		TYPE III...ANOVA - LINDQUIST	890442	B3
	SYS...AUTOMATED PROCUREMENT STATUS (APS)	890895	B3		TYPE IV ANALYSIS OF VARIANCE...LINDQUIST	890444	B3
	SYS...LOAD-AND-GO (LAG) DIAGNOSTIC PROG.	730013	B1		TYPEWRITER...MESSAGE WRITER FOR PRINTER OR	890383	B3
	SYS...COC HANDLER FOR XEROX MESSAGE SWITCH	705726	B3		UCLA BIOMEDICAL PROG.-REGULAR & X SERIES...	890890	B3
	SYS...PROGRAMMING PROCEDURES...DATADEF	705673	B1		UCLA BIOMEDICAL STATISTICAL PACKAGE-BMD...	890850	B3
	SYSX)...SYSTEM EXERCISER DIAGNOSTIC (	730010	B1		UNBLOCKING ROUTINE...BLOCKER-FILE BLOCKING	890955	B3
	SOL-SIMULATION-ORIENTED LANGUAGE...	890363	B3		UNIMPL. INST. TRAP HANDLER (S/A VERS)...	704153	B1
	TABLE PROCESSOR...FUNCTION	890808	B3		UNIMPLEMENTED INST. SIM. PCK (S/A VERS)...	704148	B1
	TABLE...BCD/EBCDIC TRANSLATION	704855	B1		UNIMPLEMENTED INST. SIM. PCKG. BCM VERS...	704362	B1
	TABS, CHI-SQUARES, CONTING. COEFF...CROSS	890454	B3		UNIT DIAG-SUPI...SYS UNIT/PROCS INTRFACE	730009	B1
	TABULATION...INTERACTIVE CROSS	890841	B3		UNIT TEST DIAGNOSTIC...CHANNEL INTERFACE	705279	B1
	TAC TOE -3D...TIC	890543	B3		UNIT TEST PATTERN CARD DECK...JT-14 PET	704427	B3
	TAPES...BASIC SOFTWARE MAGNETIC	704357	B1		UNIT...HANDLER FOR 7930/7931 DIGITAL I/O	705861	B3
	TAX...PAYROLL QUARTERLY PROOF AND LOCAL	890575	B3		UNIT...HANDLER FOR 7969 FREQUENCY CONTROL	705860	B3
	TCSH)...TIME CODE SYSTEM HANDLER (	706237	B3		UNIT/PROCS INTRFACE UNIT DIAG-SUPI...SYS	730009	B1
	TELEMETRY COMPILER...SSS-SAS PCM	705655	B3		UNITNAME...	890769	B3
	TELEMETRY SYSTEM...PBX11	708125	B3		UNIVAC 1108 COMMUNICATIONS CONTROL PROG...	890743	B3
	TELETYPE INTERFACE SUBROUTINES...COBOL	890746	B3		UNLABELED SOFTWARE SUPPORT TAPE (SST)...	880830	B1
	TEMPORARY FILES...DECLARE	890816	B3		UPDATE ADMISSION FILE...ADMIS6-LOAD AND	890682	B3
	TERMINAL ORIENTED MANAGE...MANAGE AND	705783	A1		UPDATE EDITOR - UTILITY...S/A COMP/SOURCE	704785	B1
	TERMINAL ORIENTED MERGE & SORT...TOMAS-	890786	B3		UPDATE PROGRAM - ROHUP...ROM TAPE FILE	890826	B3
	TERMINAL TEST PROGRAM...REMOTE BATCH	704983	B1		UPDATE ROUTINE...FUR - FILE	890785	B3
	TESTING...FACTOR HYPOTHESIS	890467	B3		UPDATE...LIBUPDAT FORTRAN IV LIBRARY	890665	B3
	TESTS AND F-RATIOS...T-	890481	B3		UPDATE...RELIABILITY PREDICTION CREATE/	708454	B3
	TESTS FOR LTV...PAM-PDM + ADC ACCEPTANCE	705367	B3		UPDATING...ALUMI ALUMNI	890635	B3
	TEXT ARRAY GENERATOR (TEXTAR)...BASIC	706111	B3		USER PROCEDURES - SYSTEM BPM...BPM	704768	B1
	TEXT EDITOR...HIERARCHICAL	890612	B3		USERS-MONITOR CALL'S...CALLS FOR FORTRAN	890660	B3
	TEXT SYSTEM...BROWSE - INTERACTIVE INDEXED	890677	B3		USES 7160 PUNCH...CARD DUPLICATOR -	890556	B3
	TEXT...	706412	B1		USING SIG 5/7 (STAND-ALONE)...CARD LISTER	890554	B3
	TEXTAR)...BASIC TEXT ARRAY GENERATOR (	706111	B3		UTIL...S/A FILE COPY AND VERICARD,PUT,MT)-	704782	B1
	TFM...TAPE FILE MANAGE PROCESSOR-	706122	B3		UTIL...STAND-ALONE MAG TAPE OR DISC DUMP-	704780	B1
	TGEN)...TEST FILE GENERATOR (	706247	B1		UTIL...MAG. TAPE CONVERSION (7/9 TRACK) -	704783	B1
	THREE DIMENSION TRANSIENT HEAT TRANSFER...	890766	B3		UTIL...MEDIA CONVERSION AND EDITOR ROUTIN-	704784	B1
	TIC TAC TOE -3D...	890543	B3		UTIL...STD-ALONE DISC SAVE-RESTORE ROUTINE	704781	B1
	TIME (CP-R)...CONTROL PROGRAM FOR REAL-	708000	B3		UTILIST...	706243	B3
	TIME AND/OR DATE SUBROUTINE...	890325	B3		UTILITIES,SINGLE CARD...	890659	B3
	TIME BATCH MONITOR (RBM)...REAL-	705732	B1		UTS ACCOUNTING SUMMARY...	890787	B3
	TIME BATCH MONITOR--I (RBM-I)...REAL-	705280	B3		UTS FLOWCHARTING PROGRAM...FLOPLOT - A	890783	B3
	TIME CLOCK TEST...REAL-	704017	B3		UTS FORM DATA ENTRY PACKAGE - FORM PAK...	890820	B3
	TIME CODE SYSTEM HANDLER (TCSH)...	706237	B3		UTS ON-LINE MAINTENANCE PACKAGE (OLMP)...	705884	B1
	TIME CODE TRANSLATOR TEST...	706235	B3		UTS VERSION)...SL-1 TRANSLATOR (BPM/BTM/	708118	A1
	TIME CONTROL DIAGNOSTIC...TAPE MOTION -	706440	B3		UTS...SPLURGE FOR	890829	B3
	TIME DIAGNOSTIC DEMO...FORTRAN IV RUN-	705391	B3		UTS/EASY...XEROX	708433	B1
	TIME REPORTS...GENERATE PAYROLL	890573	B3		VANDERBILT STATISTICAL PACKAGE...VOL2-	890400	B3
	TIME ROUTINES...ALTRAN RUN-	890846	B3		VARIABLES...PRODUCT MOMENT / 200-300	890452	B3
	TIME SHARED GRAPHICS FACILITY...GORDO	890533	B3		VARIAN MULTISTYLUS DIAGNOSTIC...	706438	B3
	TIME SUBR FOR COBOL...TIMER ELAPSED	890709	B3		VARIANCE HIGH SPEED...ANOVA - A*S ANAL. OF	890437	B3
	TIME TRACE...RUN-	705784	B3		VARIANCE...A*B*S ANALYSIS OF	890436	B3
	TIMER ELAPSED TIME SUBR FOR COBOL...	890709	B3		VARIANCE...ANOVA - GENERALIZED ANALYSIS OF	890440	B3
	TIMESHARING SIMULATOR...	890944	B3		VARIANCE...ANOVA-LINDQUIST TYPE I ANAL. OF	890441	B3
	TIMESHARING SYSTEM...JANUS	890532	B3		VARIANCE...INTERACTIVE ANALYSIS OF	890839	B3
	TIMING SYSTEM...ATP FOR DATA RECORDING AND	705675	B1		VARIANCE...LINDQUIST TYPE EXT. ANAL. OF	890445	B3
	TMS09A DIAGNOSTIC...PANAVIA	706442	B3		VARIANCE...LINDQUIST TYPE IV ANALYSIS OF	890444	B3
	TOE -3D...TIC TAC	890543	B3		VCO)...HANDLER FOR TUNABLE OSCILLATOR (	706228	B3
	TOMAS-TERMINAL ORIENTED MERGE & SORT...	890786	B3		VECTOR FILE...GRAPHIC	890872	B3
	TOTALS (DP0112)...YEARLY ACCOUNTS PAYABLE	890621	B3		VENDOR LABELS (DP0113)...ACCOUNTS PAYABLE	890622	B3
	TOTALS (DP0311)...GENERAL LEDGER	890594	B3		VERIFY (BPM) UTILITY...MAG TAPE COPY AND	705366	B3
	TOTALS CONFIRMATION...PAYROLL	890563	B3		VERIFY PROGRAM - UTILITY...CARD COPY AND	704442	B1
	TOTALS...ADMIS21-APPLICANT ACTIVITIES	890692	B3		VERIFY PROGRAM...CCOPY-PUNCHED CARD COPY/	890727	B3
	TOURNAMENTS...SCORE KEEPER FOR CONTINUING	890706	B3		VERIFY PROGRAM...REVISED MAG TAPE COPY -	705862	B3
	TRACE...RUN-TIME	705784	B3		VERIFY PROGRAM-UTILITY...PAPER TAPE COPY &	704422	B1
	TRACK MAGNETIC TAPE I/O HANDLER...7	704851	B1		VERIFY)...CPU DIAGNOSTIC SYSTEM (	704042	B3
	TRACK) - UTIL...MAG. TAPE CONVERSION (7/9	704783	B1		VERS...UNIMPLEMENTED INST. SIM. PCKG. BCM	704362	B1
	TRANSFER ADDRESS TAPE...ALUMS HEAT	890643	B3		VOLINIT...STAND-ALONE VOLUME INITIALIZER	706226	B1
	TRANSFER STUDENT MASTER...ACST4 HEAT	890649	B3		VOLUME INITIALIZER-VOLINIT...STAND-ALONE	706226	B1
	TRANSFER...THREE DIMENSION TRANSIENT HEAT	890766	B3		VOL2-VANDERBILT STATISTICAL PACKAGE...	890400	B3
	TRANSFORMATION...HIERARCHICAL	890461	B3		WAGE CARDS...EXTRACT	890567	B3
	TRANSGENERATION...	890480	B3		WAYS ANALYSIS...FRIEDMAN TWO-	890429	B3
	TRANSGENERATION...INTERACTIVE	890868	B3		HEB SORT...	890771	B3
	TRANSIENT HEAT TRANSFER...THREE DIMENSION	890766	B3		WEEKLY DISTRIBUTION...ADMIS13-	890665	B3

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
HEEKLY REPORT...	ACST34 LANGUAGE LAB	890858	B3	XSYMBOL...	XREF-	890795	B3
HEEKLY REPORTS...	ADMIS17-SHORT	890889	B3	YEARLY ACCOUNTS PAYABLE TOTALS (DP0112)...		890821	B3
HESTINGHOUSE HYBRID EXECUTIVE LIBRARY...		705870	B3	1.5-LANGUAGE FOR LIST PROCESSING...LISP		890368	B3
WHISTLING-SIMULATION...BIRD		890557	B3	102)...SUPER SNAP (		706146	B1
WHITNEY U-TEST...MANN-		890431	B3	1108 COMMUNICATIONS CONTROL PROG....UNIVAC		890743	B3
WORD MANIPULATION OR TEST...PARTIAL		890862	B3	1200 LISTER...		890953	B3
WORD TO 64 BIT...C36T64 CONVERT 36 BIT		890721	B3	1400 SERIES SIMULATOR...		705251	B1
WORKDAYS...WORKING DAYS SUBROUTINE -		706104	B3	1400 SIMULATOR FORMATTED TAPE FILES...SORT		705882	B3
WORKING DAYS SUBROUTINE - WORKDAYS...		706104	B3	1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM..		890667	B3
WORKSPACE CONVERTER...IBM-XEROX APL		890831	B3	192 CHAR POTTER LINE PRINTER TEST PROG....		705428	B3
WRITE LOCK-DIAGNOSTIC PROGRAM...MAP AND		706138	B1	200-300 VARIABLES...PRODUCT MOMENT /		890452	B3
WRITE MAG TAPE PACK...FORTIV-SCATTER READ		890589	B3	2230/2470 LINE PRINTER DIAGNOSTIC...		706471	B3
WRITER FOR PRINTER OR TYPEWRITER...MESSAGE		890383	B3	2470 LINE PRINTER DIAGNOSTIC...2230/		706471	B3
WRITER...GAMMA 3 MATRIX-GENERATOR REPORT		705832	A1	3.2)...STAND-ALONE SYSTEM EXERCISER (SNAP		705680	B3
XBASIC - BTM VERSION...		890802	B3	3.7...SNOBOL4 VERSION		890823	B3
XCDRJE)...XEROX TO CONTROL DATA RJE (		890910	B3	3D...TIC TAC TOE -		890943	B3
XCORE - EXTRA CORE FOR FORTRAN PROGRAMS...		890737	B3	300 VARIABLES...PRODUCT MOMENT / 200-		890452	B3
XEROX ANS COBOL COMPILER...		705888	B1	32K)...SYMMETRIC LIST PROCESSOR (		890144	B3
XEROX APL FILE CONVERTER...IBM-		890832	B3	32K)...SYMMETRIC LIST PROCESSOR (OVER		890145	B3
XEROX APL WORKSPACE CONVERTER...IBM-		890831	B3	7T/9T)...POSITION TAPE PROGRAM FOR		890728	B3
XEROX APL...		706434	B1	7160 PUNCH...CARD DUPLICATOR - USES		890556	B3
XEROX ASSEMBLY PROGRAM (AP)...		706459	B1	7530/7531 PLOTTING PACKAGE...		705857	B3
XEROX DATA MANAGEMENT SYSTEM - EXTENDED...		706461	A1	7531 PLOTTING PACKAGE...7530/		706657	B3
XEROX DISPLAY STATION PROCEDURAL HANDLER..		706263	B1	7580 GRAPHIC DISPLAY DIAGNOSTIC...		705387	B1
XEROX MESSAGE SWITCH SYS...COC HANDLER FOR		705726	B3	7580...DIAGNOSTIC FOR MDC MODIFIED		705774	B1
XEROX REPORT PROGRAM GENERATOR (RPG)...		706419	B1	7902 EDSC DIAGNOSTIC...		706173	B3
XEROX SORT AND MERGE...		706102	B1	7907 DIAGNOSTIC PROGRAM...		706489	B3
XEROX TO CONTROL DATA RJE (XCDRJE)...		890910	B3	7910 SIU HANDLER (FORTRAN IV-W)...		705891	B3
XEROX UTS/EASY...		706433	B1	7910/14/15 SIU DIAGNOSTIC PROGRAM...		704238	B1
XEROX 32-BIT LIBRARY LOADER...		730011	B1	7915/ADS 10 DIAGNOSTIC...		706145	B1
XEROX/COAST CAL/APL...		890813	B3	7915/ADS-10 AIC...HANDLER FOR		705884	B3
XOSDEBE...		890770	B3	7922 SIU DIAGNOSTIC PROGRAM...		704214	B1
XPL (GORDO) - XPL COMPILER...		890799	B3	7923 HANDLER...SIU		705854	B3
XPL COMPILER...XPL (GORDO) -		890799	B3	7923/28/29 SIU DIAGNOSTIC PROGRAM...		705392	B1
XPL...		890801	B3	7929 AND 7935 SIU HANDLER...		706143	B3
XPL/S COMPILER...		890923	B3	7930/7931 DIGITAL I/O UNIT...HANDLER FOR		705861	B3
XPL/S...SYSTEM		890959	B3	7930/7931/7935 SIU DIAGNOSTIC PROGRAM...		704211	B1
XPLSFMT...		890935	B3	7931 DIGITAL I/O UNIT...HANDLER FOR 7930/		705861	B3
XPLSREF...		890934	B3	7931/7935 SIU DIAGNOSTIC PROGRAM...7930/		704211	B1
XPS-95 DEMO PROGRAM...NASA/BALL MODEL		705843	B3	7935 SIU DIAGNOSTIC PROGRAM...7930/7931/		704211	B1
XPS-95 HANDLER...NASA/BALL MODEL		705818	B3	7935 SIU HANDLER...7929 AND		706143	B3
XREF...		890751	B3	7969 FREQUENCY CONTROL UNIT...HANDLER FOR		705860	B3
XREF-XSYMBOL...		890795	B3	9T...POSITION TAPE PROGRAM FOR 7T/		890728	B3

705783 SIGMA 5/8/7

MANAGE AND TERMINAL ORIENTED MANAGE

AUTHOR: XEROX

ABSTRACT:

XDS SIGMA 5/7 MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION MAKING. IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY RECORDS ON RADS OR MAGNETIC TAPES, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE PRINTED REPORTS OR FILES FOR ADDITIONAL COMPUTER PROCESSING. TERMINAL ORIENTED MANAGE RETRIEVES AND REPORTS MANAGE FORMATTED DATA BASES VIA A KEYBOARD TERMINAL UNDER BTM OR UTS. THE USER IS QUERIED AS TO THE RETRIEVAL AND REPORT SPECIFICATIONS AND THE REQUEST IS ENTERED INTO THE BACKGROUND BATCH STREAM.

COMMENTS:

THIS SYSTEM INCLUDES THE FOLLOWING PROGRAMS: DICTIONARY GENERATOR, FILE CREATION AND MAINTENANCE, RETRIEVAL PROCESSOR AND REPORT GENERATOR. COMPUTER CONFIGURATION: SIGMA 5/8/7 BTM/UTS SYSTEM WITH 15K WORDS OF MEMORY AVAILABLE TO MANAGE. ALL MANAGE PROCESSORS MAKE USE OF THE STANDARD SIGMA 5/8/7 SORT. DICTIONARY GENERATOR CREATES AND MAINTAINS MANAGE FILE DICTIONARIES. DATA DEFINING THE FORMAT AND CONTENT OF DATA BASE FILES IS VALIDATED AND SAVED ON A RAD FOR USE BY OTHER MANAGE PROCESSORS. A CATALOG OF DICTIONARY DEFINITIONS MAY BE GENERATED WHICH SHOWS THE CURRENT STATUS OF ONE OR MORE FILE DICTIONARIES. FILE CREATION AND MAINTENANCE CREATES AND MAINTAINS DATA FILES DEFINED BY MANAGE DICTIONARIES. FILES MAY CONTAIN EITHER FIXED OR VARIABLE LENGTH RECORDS. THE FORMAT OF THE NEW DATA TO BE ENTERED (THE TRANSACTION FILE) DOES NOT HAVE TO CONFORM TO THE FORMAT OF THE MASTER FILE DATA. FOR INSTANCE, EBCDIC DATA CAN BE AUTOMATICALLY CONVERTED TO BINARY OR PACKED DECIMAL VALUES BEFORE UPDATING THE MASTER. SIMILARLY, CONVERSIONS FROM BINARY TO PACKED DECIMAL, PACKED TO EBCDIC, ETC. ARE POSSIBLE. RETRIEVAL PROCESSOR SELECTIVELY RETRIEVES DATA FROM ANY FILE DEFINED BY A MANAGE DICTIONARY. UP TO 127 REQUESTS MAY BE PROCESSED SIMULTANEOUSLY DURING 1 PASS THROUGH THE DATA BASE. A RETRIEVED DATA FILE IS CREATED FOR INPUT TO THE MANAGE REPORT GENERATOR. ONE ADDITIONAL FILE MAY ALSO BE CREATED FOR USE BY OTHER NON-MANAGE PROGRAM PROCESSORS. THE RETRIEVAL PROGRAM DYNAMICALLY COMPILES AND EXECUTES THE LOGIC SPECIFIED IN THE BATCH OF REQUESTS BEING PROCESSED. REPORT GENERATOR AUTOMATICALLY FORMATS AND PRINTS ONE OR MORE REPORTS FROM DATA CREATED BY THE MANAGE RETRIEVAL PROCESSOR. REPORTS ARE GROUPED TOGETHER BY THE TYPE OF PAPER FORM REQUIRED AND ARE LISTED CONSECUTIVELY WITH A MINIMUM OF OPERATOR INTERVENTION. WHEN REQUIRED, THE DATA FOR ANY GIVEN REPORT IS AUTOMATICALLY SORTED TO THE USERS' SPECIFICATIONS. EACH REPORT IS FORMATTED INDEPENDENTLY, WITH ITS OWN SEQUENCE, HEADINGS, ARITHMETICAL FUNCTIONS, AND IDENTIFICATION.

705831 SIGMA 5-9

FUNCTIONAL MATHEMATICAL PROG SYS (FMPS)

AUTHOR: XEROX

ABSTRACT:

FMPS IS A MATHEMATICAL TECHNIQUE DESIGNED TO HELP MANAGEMENT ANALYZE THE POTENTIALITIES OF ALTERNATE BUSINESS ACTIVITIES AND TO CHOOSE THOSE THAT PERMIT THE BEST USE OF RESOURCES IN THE PURSUIT OF A DESIRABLE OBJECTIVE. IT INCLUDES THE FOLLOWING FEATURES: A SIMPLE, YET FLEXIBLE CONTROL LANGUAGE, FLEXIBLE I/O, COMBINATION FORTRAN/METASYMBOL FOR IMPROVED EFFICIENCY, ALONG WITH OTHER POWERFUL FEATURES EXPECTED THIRD GENERATION LINEAR PROGRAMMING SYSTEM. THESE FEATURES INCLUDE PARAMETRIC PROCEDURES AND SEPARABLE PROGRAMMING.

COMMENTS:

FMPS REQUIRES THE FOLLOWING MINIMUM HARDWARE CONFIGURATION: 1. SIGMA 5/7 WITH FLOATING POINT HARDWARE, 2. AT LEAST 40K WORDS OF CORE MEMORY, 3. A 9 TRACK MAG TAPE DRIVE, 4. A CARD READER, 5. A LINE PRINTER, 6. A MINIMUM OF 740 GRANULES OF USER RAD. THE FOLLOWING SOFTWARE IS ALSO REQUIRED: 1. BPM WITH AT LEAST FOUR PAGES FOR THE ABS AREA ON THE RAD 2. OVERLAY LOADER (OLAY IN PARTICULAR) WITH THE BREF OPTION OR EQUIVALENT FOR BPM VERSION PRIOR TO D00 3. THE FORTRAN IV COMPILER AND RUNTIME LIBRARY.
NOTE: THE EXECUTABLE LOAD MODULE OF FMPS REQUIRES APPROXIMATELY 260 GRANULES OF USER RAD.

705832 SIGMA 5-9

GAMMA 3 MATRIX-GENERATOR REPORT WRITER

AUTHOR: XEROX

ABSTRACT:

GAMMA 3 IS A POWERFUL MATRIX GENERATOR AND REPORT WRITER PROGRAM TO BE USED IN CONJUNCTION WITH XDS FMPS. GAMMA 3 PROVIDES THE CAPABILITY TO CONSTRUCT A LINEAR PROGRAMMING MATRIX (IN THE FORM REQUIRED BY FMPS) FROM PROBLEM ORIENTED INPUT STATEMENTS AND THE PREPARATION OF MANAGEMENT ORIENTED REPORTS ON THE SOLUTION TO AN FMPS PROBLEM WITH FULL TITLES. IT IS PARTICULARLY USEFUL WHEN THE PROBLEM VARIABLES CHANGE FREQUENTLY, REQUIRING THE GENERATION OF A NEW FMPS INPUT MATRIX AND LP SOLUTION FOR EACH CHANGE. GAMMA 3 ALLOWS FOR AUTOMATIC CHANGES TO MATRIX DATA AND REPORT DATA AS A CONSEQUENCE OF ALTERED INPUT DATA.

COMMENTS:

GAMMA 3 REQUIRES THE FOLLOWING MINIMUM HARDWARE CONFIGURATION: 1. SIGMA 5/7 WITH FLOATING POINT HARDWARE 2. AT LEAST 48K WORDS OF CORE MEMORY, 3. TWO 9 TRACK MAG TAPE DRIVES, 4. A CARD READER, 5. A LINE PRINTER 6. A MINIMUM OF 740 GRANULES OF USER RAD. THE FOLLOWING SOFTWARE IS ALSO REQUIRED: 1. BPM WITH AT LEAST 4 PAGES FOR THE ABS AREA ON THE RAD 2. OVERLAY LOADER (OLAY IN PARTICULAR) WITH THE BREF OPTION OR EQUIVALENT FOR BPM PRIOR TO D00 3. FORTRAN IV COMPILER AND RUN TIME LIBRARY 4. SIGMA 5/7 SORT-MERGE.
NOTE: THE EXECUTABLE LOAD MODULES OF GAMMA 3 REQUIRE APPROXIMATELY 200 GRANULES OF USER RAD.

705865 SIGMA 5/8/7

CIRC-DC

AUTHOR: XEROX

ABSTRACT:

CIRC-DC PROVIDES NOMINAL, SENSITIVITY, AND AUTOMATIC WORST CASE ANALYSES FOR ELECTRONIC CIRCUITS. THE PROGRAM OPERATES IN BATCH OR CONVERSATIONAL MODE UNDER BPM/BTM OR UTS. THE SALIENT FEATURES OF CIRC-DC INCLUDE COMPLETE USER-PROGRAM INTERACTION, STORED MODELS FOR ALL CIRCUIT ELEMENTS, NON-LINEAR MODELS FOR TRANSISTORS AND DIODES, AND DYNAMIC MEMORY ALLOCATION TO TAKE ADVANTAGE OF VARIOUS MEMORY SIZES.

COMMENTS:

THE PROGRAM REQUIRES THE BPM/BTM OR UTS MONITOR SYSTEMS WITH AT LEAST 18K OF USER MEMORY EXCLUSIVE OF THE MONITOR. THERE ARE THREE CONTROL CARD DECKS SUPPLIED WITH ELEMENT 705865-74. DECK #1 WILL LOAD CIRC-DC FROM THE BINARY TAPE (705865-26). DECK #2 WILL COMPILE AND LOAD CIRC-DC FROM THE SOURCE TAPE (705865-36). DECK #3 CONTAINS SEVERAL TEST CASES. FILE 7EQ ON THE SOURCE TAPE IS THE SPECIAL EQUATIONS SUBROUTINE. FOR SPECIAL EQUATIONS USAGE, THIS FILE SHOULD BE STORED ON THE DISK OR PUNCHED ON CARDS FROM THE RELEASE TAPE.

- 705900 SIGMA 5-9 DMS - DATA MANAGEMENT SYSTEM (BPM)
AUTHOR: XEROX
ABSTRACT:
DMS IS A GENERALIZED DATA MANAGEMENT SYSTEM FOR SIGMA COMPUTERS. IT IS A FLEXIBLE ECONOMIC AND EFFICIENT APPROACH TO THE STORAGE MAINTENANCE AND RETRIEVAL OF INFORMATION. DMS ALLOWS COMMON DATA FROM SEPARATE OPERATING AREAS OF A BUSINESS TO BE INTEGRATED IN A MANNER THAT BEST SUITS THE COMPANY'S TOTAL PROCESSING REQUIREMENTS - MINIMIZING REDUNDANT DATA STORAGE, REDUCING TRADITIONAL SORTING AND MERGING REQUIREMENTS, AND SIMPLIFYING FILE MAINTENANCE PROBLEMS.
COMMENTS:
DMS IS COMPOSED OF A FILE DEFINITION PROCESSOR, THREE UTILITY PROCESSORS AND A RUNTIME LIBRARY. THE FILE DEFINITION PROCESSOR INCLUDES A USER LANGUAGE WHICH PROVIDES THE CAPABILITY TO STRUCTURE THE CONTENTS OF A CENTRALIZED DATABASE IN A MANNER THAT REFLECTS THE DATA RELATIONSHIPS THAT ACTUALLY EXIST WITHIN A BUSINESS. THE THREE UTILITY PROCESSORS ALLOW THE USER TO SAVE A DATABASE ON MAGNETIC TAPE AND TO RESTORE THE DATABASE FROM THE BACKUP DUMP TAPE OR, IN THE EVENT OF HARDWARE OR SOFTWARE FAILURE, FROM AN AUDIT JOURNAL CREATED BY THE RUNTIME LIBRARY ROUTINES. THE UTILITY PROCESSORS ALSO PROVIDE THE CAPABILITY OF PRINTING ALL OR SELECTED PARTS OF THE DATABASE OR THE DUMP TAPE. THE DMS RUNTIME LIBRARY IS DESIGNED TO OPERATE WITHIN A HOST PROCEDURAL LANGUAGE SUCH AS COBOL, METASYMBOL OR FORTRAN. IN THIS ENVIRONMENT THE HOST LANGUAGE PERFORMS THE DATA VALIDATION, MANIPULATION AND REPORTING FUNCTIONS AND CALLS UPON DMS TO MANAGE THE TASKS OF STORAGE, RETRIEVAL AND UPDATING OF CENTRALIZED DATABASE.
- 708112 SIGMA 5/8/7 CIRC-AC
AUTHOR: XEROX
ABSTRACT:
CIRC-AC PROVIDES FREQUENCY DOMAIN ANALYSIS OF ELECTRONIC CIRCUITS. THE PROGRAM HANDLES BOTH PASSIVE AND ACTIVE COMPONENTS AND INCLUDES STORED MODELS FOR TRANSISTORS AND CONTROLLED VOLTAGE AND CURRENT SOURCES. FREQUENCY RANGES ARE SCANNED AUTOMATICALLY, AND OPEN-LOOP ANALYSES AND PARAMETER ITERATIONS CAN BE AUTOMATICALLY PERFORMED. A FLEXIBLE LINE PRINTER PLOTTING ROUTINE PROVIDES TABULAR AS WELL AS PLOTTED OUTPUT. THE CIRC PACKAGE FEATURES HIGHLY CONVERSATIONAL USER-PROGRAM INTERACTION, SPARSE MATRIX NUMERICAL TECHNIQUES, AND DYNAMIC MEMORY ALLOCATION TO ADJUST FOR LARGER CIRCUITS OR USER MEMORY ENVIRONMENT.
COMMENTS:
CIRC-AC REQUIRES THE BPM, BTM, OR UTS MONITORS WITH AT LEAST 16K WORDS OF USER MEMORY AVAILABLE. THREE CONTROL CARD DECKS ARE SUPPLIED WITH ELEMENT 708112-74. DECK #1 WILL LOAD CIRC-AC FROM THE BINARY TAPE (708112-28). DECK #2 WILL COMPILE AND LOAD CIRC-AC FROM THE SOURCE TAPE (708112-36). DECK #3 CONTAINS A CIRC-AC TEST CASE. SPECIAL EQUATIONS USAGE REQUIRES THE SOURCE FOR SUBROUTINE EQ, WHICH IS CONTAINED IN FILE 7EQ-P ON THE SOURCE TAPE.
- 708117 SIGMA 5/8/7 SL-1 TRANSLATOR (RBM VERSION)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE RBM VERSION OF THE SL-1 REAL-TIME/HYBRID CONTINUOUS SYSTEM SIMULATION LANGUAGE TRANSLATOR. IT READS SL-1 SOURCE PROGRAMS AND CONVERTS THEM TO FORTRAN PROGRAMS FOR COMPILATION UNDER THE XDS EXTENDED FORTRAN IV OR FORTRAN IV-H COMPILER. THE PROGRAM ALSO INCLUDES A RUNTIME LIBRARY WHICH MUST BE SEARCHED, ALONG WITH THE EXTENDED FORTRAN LIBRARY, TO SATISFY EXTERNAL REFERENCES GENERATED BY THE TRANSLATOR. SL-1 IS EQUALLY SUITABLE FOR ALL-DIGITAL SIMULATION IN THE BATCH PROCESSING MODE AND FOR REALTIME OR HYBRID SIMULATION.
COMMENTS:
SL-1 RUNS ON A SIGMA 5/8/7 COMPUTER WITH THE REAL-TIME BATCH MONITOR (RBM-C00) AND THE EXTENDED FORTRAN IV-H COMPILER. MAXIMUM CORE REQUIREMENT FOR THE TRANSLATOR IS 13K WORDS EXCLUSIVE OF THE MONITOR AND REGARDLESS OF THE SIZE OF THE SOURCE PROGRAM. IMPLEMENTATION OF THE REAL-TIME/HYBRID FEATURES OF SL-1 REQUIRES SEVERAL ROUTINES CUSTOM-WRITTEN FOR THE USER'S PARTICULAR HARDWARE CONFIGURATION, INCLUDING A VERSION OF THE HYBRID EXECUTIVE LIBRARY (HEL). THESE ROUTINES ARE NOT INCLUDED IN THE COST OF THE SL-1 TRANSLATOR AND RUNTIME LIBRARY. THE SOURCE IS INCLUDED ON THE SL-1(BPM/UTS) RELEASE TAPE, CN708118-26.
- 708118 SIGMA 5-9 SL-1 TRANSLATOR (BPM/BTM/UTS VERSION)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE BPM/BTM/UTS VERSION OF THE SL-1 REALTIME/HYBRID CONTINUOUS SYSTEM SIMULATION LANGUAGE TRANSLATOR. IT READS SL-1 SOURCE PROGRAMS AND CONVERTS THEM TO FORTRAN PROGRAMS FOR COMPILATION UNDER THE XDS EXTENDED FORTRAN IV OR FORTRAN IV-H COMPILER. THE PROGRAM ALSO INCLUDES A RUNTIME LIBRARY TO SATISFY EXTERNAL REFERENCES GENERATED BY THE TRANSLATOR. SL-1 CAN BE RUN IN THE BATCH MODE OR ON-LINE UNDER BTM OR UTS. IT IS EQUALLY SUITABLE FOR NON-REAL TIME ALL-DIGITAL SIMULATION AND FOR REAL-TIME OR HYBRID SIMULATION.
COMMENTS:
SL-1 RUNS ON A SIGMA 5-9 COMPUTER WITH BPM/BTM(VERSION F00) OR UTS(VERSION A00) AND THE EXTENDED FORTRAN IV(VERSION B00) OR FORTRAN IV-H COMPILER. MAXIMUM CORE REQUIREMENT FOR THE TRANSLATOR IS 15K WORDS EXCLUSIVE OF THE MONITOR AND REGARDLESS OF THE SIZE OF THE SOURCE PROGRAM. IMPLEMENTATION OF THE REALTIME/HYBRID FEATURES OF SL-1 REQUIRES SEVERAL ROUTINES CUSTOM-WRITTEN FOR THE USER'S PARTICULAR HARDWARE CONFIGURATION. THESE ROUTINES ARE NOT INCLUDED IN THE COST OF THE SL-1 TRANSLATOR AND RUNTIME LIBRARY. THE SOURCE CODE FOR SL-1 IS INCLUDED ON ELEMENT 708118-26 (WHICH ALSO INCLUDES THE RBM SOURCE).
- 708130 SIGMA 5-9 GENERAL PURPOSE DISCRETE SIMULATOR-OPDS
AUTHOR: XEROX
ABSTRACT:
OPDS IS A TRANSACTION-ORIENTED DISCRETE SIMULATOR LANGUAGE WHICH USES COMMANDS SELECTED TO ENABLE THE USER TO BUILD MODELS DIRECTLY FROM LOGICAL FLOW CHARTS OF THE SYSTEM WHICH HE IS MODELING. OPDS-C00 IS FULLY COMPATIBLE WITH IBM GPSS/360. ENHANCEMENTS INCLUDE THE ABILITY TO STORE BLOCKS, PARAMETERS, AND MATRICES ON A RAD AND AUTOMATICALLY SNAP THEM IN AS NEEDED, THIS MINIMIZING CORE REQUIREMENTS. OPDS ALLOWS THE USERS TO REFERENCE ALL ENTITIES INDIRECTLY AND HAS DIRECT INTERFACES FOR COBOL AND FORTRAN SUBROUTINES. OPDS CAN BE SET TO RUN UNTIL A PRE-SELECTED ENTITY REACHES A STEADY-STATE CONDITION. THE C00 RELEASE INCLUDES NEW INTERACTIVE FEATURES WHICH ALLOW THE USER TO INTERRUPT A SIMULATION, EXAMINE ANY STATISTIC, MODIFY THE MODEL IF NECESSARY, AND THEN CONTINUE.

708130 CONTINUED ON FOLLOWING PAGE

- 706130 GENERAL PURPOSE DISCRETE SIMULATOR-OPDS (CONTINUED)
COMMENTS:
THIS VERSION IS COMPATIBLE WITH OPDS-800 (706130-800). OPDS-C00 WILL RUN AS A BATCH OR TIME-SHARED PROCESSOR UNDER EITHER BPM/BTM OR UTS, ALTHOUGH AS NOTED IN THE OPDS REFERENCE MANUAL, THERE ARE CERTAIN LIMITATIONS UNDER BTM. GPDS REQUIRES A USER PARTITION OF 9.5K PLUS SUFFICIENT DYNAMIC CORE TO CONTAIN THE MODEL. THIS CAN RANGE FROM 8.5K FOR A SMALL MODEL TO 50K FOR A LARGE SIMULATION.
- 706253 SIGMA 5/6/7 CIRC-TRANSIENT
AUTHOR: XEROX
ABSTRACT:
CIRC-TRANSIENT PROVIDES GENERAL PURPOSE TIME-DOMAIN ANALYSIS OF ELECTRONIC CIRCUITS. THE PROGRAM RUNS IN THE BATCH OR CONVERSATIONAL MODES UNDER BTM AND UTS, AND IN THE BATCH MODE UNDER BPM. IT INCLUDES MANY ADVANCED COMPUTER-AIDED DESIGN FEATURES SUCH AS SPARSE MATRIX AND IMPLICIT INTEGRATION NUMERICAL TECHNIQUES, STORED NON-LINEAR MODELS FOR ALL CIRCUIT ELEMENTS, AND HIGHLY CONVERSATIONAL USER-PROGRAM INTERACTION.
COMMENTS:
CIRC-TRANSIENT REQUIRES THE BPM, BTM, OR UTS MONITOR WITH AT LEAST 16K WORDS OF USER MEMORY AVAILABLE. LARGER CIRCUITS WILL REQUIRE ADDITIONAL DYNAMIC MEMORY. THERE ARE THREE CONTROL CARD DECKS SUPPLIED WITH ELEMENT 706253-74. DECK #1 WILL LOAD CIRCTR FROM THE BINARY TAPE (706253-26). DECK #2 WILL COMPILE AND LOAD CIRCTR FROM THE SOURCE TAPE (706253-36). DECK #3 CONTAINS SEVERAL TEST CASES. SPECIAL EQUATIONS USAGE REQUIRES THE SOURCE FOR SUBROUTINE EQ, WHICH IS CONTAINED IN FILE 7EQP ON THE SOURCE TAPE.
- 706461 SIGMA 6-9/550/560 XEROX DATA MANAGEMENT SYSTEM - EXTENDED
AUTHOR: XEROX
ABSTRACT:
EXTENDED DMS IS A GENERALIZED DATA MANAGEMENT SYSTEM FOR SIGMA COMPUTERS. IT PROVIDES FOR THE INTEGRATION OF DATA FROM SEPARATE AREAS OF A BUSINESS INTO A COMMON DATABASE. A DATABASE MAY BE SUBDIVIDED INTO AS MANY AS 64 SEGMENTS THUS POTENTIALLY REDUCING THE COMPUTER RESOURCES REQUIRED, AS ONLY THOSE SEGMENTS THAT ARE TO BE ACCESSED AT ANY ONE TIME NEED BE AVAILABLE TO DMS. PROGRAMS THAT ACCESS THE DATABASE MAY BE WRITTEN IN COBOL, FORTRAN OR METASYMBOL AND NEED ONLY CONTAIN A DESCRIPTION OF THOSE PORTIONS OF THE DATABASE THAT THEY WILL ACCESS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
EXTENDED DMS CONSISTS OF A FILE DEFINITION PROCESSOR, A RUN-TIME LIBRARY, AND FOUR UTILITY PROCESSORS. ALL MAY BE EXECUTED IN THE BATCH MODE OR FROM A TERMINAL UNDER THE UTS OPERATING SYSTEM. THE DMS RUN-TIME LIBRARY MAY BE STRUCTURED AS A SHARED LIBRARY THUS REDUCING THE CORE REQUIREMENTS FOR APPLICATION PROGRAMS.

- 704124 SIGMA 5/7 CONTROL MESSAGE PROCESSOR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM ANALYSES ALL THE INPUT AND OUTPUT ASSIGNMENTS AND OTHER SPECIAL PROCESSOR INDICATORS FOR THE STAND-ALONE SYMBOL ASSEMBLER.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE ABOVE MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS. THE CORE RESIDENCY IS APPROXIMATELY 734 DECIMAL WORDS.
- 704127 SIGMA 5/7 BCM/STAND-ALONE COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS THE COMMON AND INTERDEPENDENT RELOCATABLE BINARY MODULES THAT ARE REQUIRED TO GENERATE THE ABSOLUTE BINARY FOR THE BASIC CONTROL MONITOR (BCM), 704144; THE STANDALONE LOADER WITH I/O HANDLER, 704142; THE STAND-ALONE ABS DUMP LOADER WITH I/O HANDLERS, 704155; AND THE STAND-ALONE I/O PACKAGE. THE BCM AND STAND-ALONE UNIMPLEMENTED INSTRUCTION SIMULATION PACKAGES ARE ALSO INCLUDED.
COMMENTS:
THIS CATALOG NUMBER INCLUDES THE RELOCATABLE BINARY (ON PAPER TAPE AND CARDS) FOR CATALOG NUMBERS 704131, 704133, 704141, 704149-704154, 704363-704374, AND 704851-704854. NOTE: THE PROGRAM DESCRIPTION (704127-11) DESCRIBES THE PROCEDURE FOR GENERATING THE ABS VERSIONS OF THE BCM AND LOADERS MENTIONED ABOVE. THE STAND-ALONE ABS DUMP LOADER WITH I/O HANDLERS (704155-83 OR -84), THE STAND ALONE LOADER WITH I/O HANDLERS (704142-83 OR -84), THE ABSOLUTE BOOTSTRAP LOADER (704145-23 OR -24), AND THE STAND-ALONE SYMBOL ASSEMBLER (704160-83 OR -84) ARE USED IN THIS PROCEDURE.
- 704133 SIGMA 5/7 MONITOR FOR BCM
AUTHOR: XEROX
ABSTRACT:
THIS IS THE MONITOR PART OF THE BASIC CONTROL MONITOR.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704144. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. THE CORE RESIDENCY IS APPROXIMATELY 3160 DECIMAL LOCATIONS.
- 704142 SIGMA 5/7 STAND-ALONE LOADER WITH I/O HANDLERS
AUTHOR: XEROX
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NOS. 704141, 704367-704374, AND 704851-704854 (AVAILABLE ONLY AS PART OF 704142). THE SELF-LOADING BINARY VERSIONS ARE THE ABSOLUTE BINARY CARDS AND ABSOLUTE BINARY PAPER TAPE (MODEL NOS. 704141-84 AND 704141-83). THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA, CARD READER OR PAPER TAPE READER, AND TYPEWRITER. THE CORE RESIDENCY IS APPROXIMATELY 3870 DECIMAL LOCATIONS. SEE THE SIGMA 7 STAND ALONE SYSTEM OPERATIONS MANUAL, 901053. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704144 SIGMA 5/7 BCM OPERATING SYSTEM
AUTHOR: XEROX
ABSTRACT:
THE BASIC CONTROL MONITOR (BCM) IS A SOFTWARE MECHANISM FOR CONTROLLED MULTIPLE-USE OF THE SIGMA COMPUTER ON A MINIMAL BASIS. IN PARTICULAR, IT ENABLES A SIGMA MACHINE TO SERVICE REAL-TIME FOREGROUND PROCESSES CONCURRENTLY WITH A LOWPRIORITY BACKGROUND PRODUCTION TASK (E.G., COMPILATION OR ASSEMBLY) BY CENTRALIZING ALL I/O, INTERRUPT AND TRAP FUNCTIONS. THE BCM INTERFACES ARE COMPATIBLE WITH THE STANDARD XDS BASIC FORTRAN IV-H, THE BASIC ASSEMBLER, AND OTHER UTILITY PROGRAMS (LOADER). IN ADDITION, THE COMMON FUNCTIONAL ELEMENTS OF THE BCM ARE COMPATIBLE WITH THE BATCH PROCESSING MONITOR, IN TERMS OF COMMON INTERFACES. THIS VERSION OF BCM INCLUDES THE I/O HANDLERS FOR CARD I/O, PAPER TAPE I/O, TYPEWRITER, LINE PRINTER AND MAGNETIC TAPE.
COMMENTS:
SEE THE SIGMA 7 BCM REFERENCE MANUAL, 900953. THIS COVER NUMBER INCLUDES THE FOLLOWING ROUTINES WHICH ARE LISTED IN THE PROGRAM DESCRIPTION OF 704357: INITIALIZATION, HANDLERS, BCD CONVERSION, AND SIMULATION ROUTINES.
- 704145 SIGMA 5/7 ABSOLUTE BOOTSTRAP LOADER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM LOADS ITSELF IN BY STANDARD FILL FROM THE CARD READER OR PAPER TAPE READER AND AUTOMATICALLY LOADS THE FOLLOWING ABSOLUTE BINARY DECK OR ABSOLUTE PAPER TAPE.
COMMENTS:
MODEL NO. 704145-84 OF THIS PROGRAM IS THE EXECUTABLE DECK USED FOR BOOTSTRAPPING ABSOLUTE BINARY DECKS. IT CONSISTS OF 3 CARDS. WHEN THE RELOCATABLE BINARY DECK (704145-24) IS EXECUTED IT PRODUCES THE ABSOLUTE BINARY DECK (704145-84). THE ABOVE PROCEDURE IS ALSO APPLICABLE FOR PAPER TAPE. CONFIGURATION REQUIRED: ANY SIGMA COMPUTER WITH A CARD READER OR PAPER TAPE READER. THE CORE RESIDENCY IS APPROXIMATELY 81 DECIMAL LOCATIONS.
- 704146 SIGMA 5/7 BASIC BCM ABS DUMP LOADER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM LOADS RELOCATABLE BINARY PROGRAMS AND PUNCHES THEM OUT ON CARDS OR PAPER TAPE. THE LOADER MUST BE EXECUTED UNDER CONTROL OF THE BASIC CONTROL MONITOR.
COMMENTS:
THE MINIMUM CONFIGURATION REQUIRED IS: 8K SIGMA, CARD READER/ PUNCH OR PAPER TAPE I/O, AND TYPEWRITER. THE CORE RESIDENCY IS APPROXIMATELY 2234 DECIMAL LOCATIONS. TO OBTAIN AN ABSOLUTE VERSION, LOAD THE

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- 704148 BASIC BCM ABS DUMP LOADER (CONTINUED)
RELOCATABLE BINARY AND DUMP IT USING THE SIGMA F.S. ABS DUMP LOADER WITH I/O HANDLERS, CATALOG NO. 704155. SEE THE SIGMA 7 BCM REFERENCE MANUAL, 900953, FOR THE OPERATING PROCEDURES. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704357.
- 704148 SIGMA 5/7 UNIMPLEMENTED INST. SIM. PCK (S/A VERS)
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS ROUTINES WHICH SIMULATE OPTIONAL SIGMA INSTRUCTIONS (FLOATING POINT, DECIMAL, BYTE STRING, AND CONVERT INSTRUCTIONS) WHICH ARE NOT IMPLEMENTED IN THE HARDWARE. THE PACKAGE ALSO INCLUDES A TRAP HANDLER WHICH PROVIDES AUTOMATIC LINKAGE TO THE SIMULATION ROUTINES
COMMENTS:
THIS PROGRAM COVERS THE FOLLOWING CATALOG NUMBERS: 704149, 704150, 704151, 704152, 704153. CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER. THE TOTAL CORE RESIDENCY IS APPROXIMATELY 1350 DECIMAL WORDS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. FOR SOURCE, SEE PAL COMMENTS UNDER 704362.
- 704149 SIGMA 5/7 FLOATING POINT INST. SIMULATOR (S/A VERS)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: FAS, FAL, FSS, FSL, FMS, FML, FDS AND FDL.
COMMENTS:
THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 452 DECIMAL WORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704362.
- 704150 SIGMA 5/7 DECIMAL INSTRUCTION SIMULATOR (S/A VERS)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: DL, DST, DA, DS, DM, DD, DSA, DC, PACK, UNPK AND EBS.
COMMENTS:
THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 572 DECIMAL WORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704362.
- 704151 SIGMA 5 BYTE-STRING INSTRUCTION SIMULATOR (S/A)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: MBS, CBS, TBS AND TTBS.
COMMENTS:
THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 130 WORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704362.
- 704152 SIGMA 5 CONVERT INSTRUCTION SIMULATOR (S/A)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE INSTRUCTIONS CVA AND CVS
COMMENTS:
THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 72 DECIMAL WORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. NOTE: FOR SOURCE, SEE PAL COMMENTS UNDER 704362.
- 704153 SIGMA 5/7 UNIMPL. INST. TRAP HANDLER (S/A VERS)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE RESPONDS TO TRAPS INITIATED BY ATTEMPTS TO EXECUTE UNIMPLEMENTED INSTRUCTIONS. IT THEN CALLS ON THE APPROPRIATE INSTRUCTION SIMULATOR ROUTINES.
COMMENTS:
THIS PROGRAM IS PART OF 704148. ITS DESCRIPTION IS INCLUDED IN 704148-11. THE APPROXIMATE CORE RESIDENCY IS 110 DECIMAL WORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704155 SIGMA 5/7 S/A ABS DUMP LOADER WITH I/O HANDLERS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM LOADS RELOCATABLE BINARY PROGRAMS AND PUNCHES THEM OUT ON CARDS OR PAPER TAPE.
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 704154, 704367-704374, AND 704851-704854. THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA, CARD I/O OR PAPER TAPE I/O, AND TYPEWRITER. THE CORE RESIDENCY IS APPROXIMATELY 3918 DECIMAL LOCATIONS. SEE THE SIGMA 7 STAND ALONE SYSTEM OPERATIONS MANUAL, 901063. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

- 704157 SIGMA 5/7 S/A GENERAL DEBUG SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
 DEBUG IS A RELOCATABLE SUBROUTINE WHICH ALLOWS A PROGRAMMER TO DEFINE A DEBUGGING ENVIRONMENT FOR PROGRAM CHECKOUT WITHOUT HAVING TO BE PRESENT DURING THE RUNNING OF THE PROGRAM. DEBUG STATEMENTS MAY BE ENTERED THRU THE KEYBOARD (TYPEWRITER) OR THE CARD READER.
COMMENTS:
 THE APPROXIMATE CORE RESIDENCY IS 3684 DECIMAL LOCATIONS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER.
- 704158 SIGMA 5/6/7 SYMBOL ASSEMBLER FOR BCM
AUTHOR: XEROX
ABSTRACT:
 THIS IS THE BCM VERSION OF THE ONE-PASS ASSEMBLER FOR THE SIGMA 5/6/7. IT TRANSLATES SYMBOLIC SOURCE STATEMENTS INTO RELOCATABLE OBJECT MODULES.
COMMENTS:
 THE MINIMUM CONFIGURATION IS THAT NEEDED FOR RUNNING BCM. CORE-SIZE IS APPROXIMATELY 3800 (DECIMAL) WORDS.
- 704159 SIGMA 5/6/7 SYMBOL ASSEMBLER FOR BPM/BTH
AUTHOR: XEROX
ABSTRACT:
 THESE ARE THE BPM AND BTH VERSIONS OF THE ONE-PASS ASSEMBLER FOR THE SIGMA 5/6/7. THEY TRANSLATE SYMBOLIC SOURCE STATEMENTS INTO RELOCATABLE OBJECT MODULES.
COMMENTS:
 FOR BPM SYMBOL, THE MINIMUM CONFIGURATION IS THAT REQUIRED FOR BPM AND THE CORE-SIZE IS APPROXIMATELY 3800 (DECIMAL) WORDS. FOR BTH SYMBOL, THE MINIMUM CONFIGURATION IS THAT REQUIRED FOR BTH AND THE CORE-SIZE IS APPROXIMATELY 4100 (DECIMAL) WORDS.
- 704160 SIGMA 5/7 STAND-ALONE SYMBOL ASSEMBLER
AUTHOR: XEROX
ABSTRACT:
 THIS PROGRAM IS THE STAND-ALONE VERSION OF THE ONE PASS ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE, PROGRAMS AND CONVERTS THEM TO MACHINE LANGUAGE (OBJECT) PROGRAMS. ITS BINARY OUTPUT MAY BE LOADED BY ANY OF THE ONE PASS RELOCATABLE LOADERS.
COMMENTS:
 THIS PROGRAM INCLUDES CATALOG NUMBERS 704162, 704124, 704163, 704164, 704165, 704166, 704167, 704168, 704169, 704170, 704171, 704172, AND 704173. SEE THE SIGMA SYMBOL REFERENCE MANUAL, 901790, AND THE SIGMA 7 STAND-ALONE SYSTEMS OPERATIONS MANUAL, 901053. THE CORE RESIDENCY IS APPROXIMATELY 3158 DECIMAL WORDS PLUS THE SELECTED I/O HANDLERS. THE REMAINING AVAILABLE MEMORY IS USED AS SCRATCH STORAGE. MODEL NO. 704160-84 (704160-83) INCLUDES THE ABSOLUTE BINARY OF 704162 AND THE RELOCATABLE BINARY OF THE REMAINING CATALOG NOS. LISTED ABOVE. THE MINIMUM CONFIGURATION REQUIRED IS: 4K SIGMA, CARD I/O OR PAPER TAPE I/O, AND TYPEWRITER.
- 704162 SIGMA 5/7 STAND-ALONE SYSTEM LOADER
AUTHOR: XEROX
ABSTRACT:
 THIS PROGRAM IS USED TO LOAD THE SIGMA FREE-STANDING (ONE-PASS) SYMBOL ASSEMBLER. IT SELECTIVELY LOADS THE I/O HANDLERS THAT ARE NEEDED.
COMMENTS:
 THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 498 DECIMAL LOCATIONS.
- 704163 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR BONO
AUTHOR: XEROX
ABSTRACT:
 THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS ASSEMBLER WHEN B0 IS ASSIGNED TO NO.
COMMENTS:
 THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1 DECIMAL WORD.
- 704164 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LONG
AUTHOR: XEROX
ABSTRACT:
 THIS PROGRAM HANDLER THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN L0 IS ASSIGNED TO NO.
COMMENTS:
 THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION EQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1 DECIMAL WORD.
- 704165 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR LOLP
AUTHOR: XEROX
ABSTRACT:
 THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN L0 IS

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- 704165 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR L0LP (CONTINUED)
ASSIGNED TO LP(LINE PRINTER).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 40 DECIMAL WORDS.
- 704166 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR L0MT
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN L0 IS ASSIGNED TO MT (MAGNETIC TAPE).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 62 DECIMAL WORDS.
- 704167 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR L0TY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE LISTING OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN L0 IS ASSIGNED TO TY (TYPEWRITER).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 37 DECIMAL WORDS.
- 704168 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR S1CR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING (ONE PASS)SYMBOL ASSEMBLER WHEN S1 IS ASSIGNED TO CR (CARD READER).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 44 DECIMAL WORDS.
- 704169 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR S1MT
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN S1 IS ASSIGNED TO MT (MAGNETIC TAPE).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 73 DECIMAL WORDS.
- 704170 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR S1PR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE SYMBOLIC INPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN S1 IS ASSIGNED TO PR (PAPER TAPE READER).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 60 DECIMAL WORDS.
- 704171 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR B0PP
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN B0 IS ASSIGNED TO PP (PAPER TAPE PUNCH).
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 42 DECIMAL WORDS.
- 704172 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR B0CP
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN B0 IS ASSIGNED TO THE CP (CARD PUNCH)
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704160. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 106 DECIMAL WORDS.
- 704173 SIGMA 5/7 STAND-ALONE I/O HANDLER FOR B0MT
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM HANDLES THE BINARY OUTPUT FOR THE FREE STANDING ONE PASS SYMBOL ASSEMBLER WHEN B0 IS ASSIGNED TO MT (MAGNETIC TAPE).

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- 704173 STAND-ALONE I/O HANDLER FOR BOMT (CONTINUED)
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 704180. SEE THE THE PREVIOUSLY MENTIONED CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 88 DECIMAL WORDS.
- 704357 SIGMA 5/7 BASIC SOFTWARE MAGNETIC TAPES
AUTHOR: XEROX
ABSTRACT:
THIS COVER NUMBER HAS BEEN DESIGNED TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE AND RELOCATABLE BINARY DECKS ON MAGNETIC TAPES WITH ALL RELATED SOFTWARE (EXCEPT FORTRAN IV-H + LIBRARIES) FOR: STAND-ALONE SYSTEMS BCH (BASIC CONTROL MONITOR) RBM-1 (REAL-TIME BATCH MONITOR)
COMMENTS:
THIS CATALOG NO. COVERS CATALOG NOS: 704145, 704127, 704180, 704144, AND 705280.
- 704362 SIGMA 5/7 UNIMPLEMENTED INST. SIM. PCK0. BCH VERS.
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS ROUTINES WHICH SIMULATE OPTIONAL SIGMA INSTRUCTIONS (FLOATING POINT, DECIMAL, BYTE STRING, AND CONVERT INSTRUCTIONS) WHICH ARE NOT IMPLEMENTED IN THE HARDWARE.
COMMENTS:
THIS PROGRAM COVERS THE SIMULATION ROUTINES LISTED IN THE PROGRAM DESCRIPTION OF 704357. CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER; THE TOTAL CORE RESIDENCY IS APPROXIMATELY 1228 DECIMAL WORDS. (NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127. ALSO TO OBTAIN SOURCE FOR THE STAND ALONE VERSIONS OF THE FOUR INSTRUCTION SIMULATORS, ASSEMBLY PARAMETERS MUST BE CHANGED AS DESCRIBED IN THE PROGRAM DESCRIPTION OF 704357.
- 704363 SIGMA 5/7 FLOATING POINT INST. SIMULATOR (BCH VER)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: FAS, FAL, FSS, FSL, FMS, FML, FDS, AND FDL.
COMMENTS:
THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 452 DECIMAL WORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704364 SIGMA 5/7 DECIMAL INSTRUCTION SIMULATOR (BCH VER.)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: DL, DST, DA, DS, DM, DD, DSA, DC, PACK, UNPK AND EBS.
COMMENTS:
THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 572 DECIMAL WORDS. CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704365 SIGMA 5 BYTE-STRING INSTRUC. SIMULATOR (BCH VER)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE FOLLOWING INSTRUCTIONS: MBS, CBS, TBS AND TTBS.
COMMENTS:
THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 130 DECIMAL WORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704366 SIGMA 5 CONVERT INSTRUCTION SIMULATOR (BCH)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE SIMULATES THE INSTRUCTIONS CVA AND CVS.
COMMENTS:
THIS PROGRAM IS PART OF 704362. ITS DESCRIPTION IS INCLUDED IN 704362-11. THE APPROXIMATE CORE RESIDENCY IS 072 DECIMAL WORDS. THE CONFIGURATION REQUIRED IS: ANY SIGMA COMPUTER. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704367 SIGMA 5/7 STAND-ALONE I/O CONTROL PROGRAM (SALIO)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM CONTROLS ALL ASPECTS OF THE OPERATION OF THE I/O HANDLERS IN A STAND-ALONE CONFIGURATION. THE FUNCTIONS AVAILABLE ARE: OPEN; CLOSE; READ; WRITE; CHECK I/O COMPLETE; VERTICAL FORMAT CONTROL (VFC); MODE (BCD OR BIN); DIRECT (RECORD FORMATTING); PRINT; TYPE; REWIND M.T.; WRITE END OF FILE; POSITION FILE; AND POSITION RECORD. DEVICES MAY BE ASSIGNED TO FUNCTIONAL ROLES AS DESIRED. UNSOLICITED KEVIN VIA THE INTERRUPT BUTTON MAY BE USED AS IN THE BASIC CONTROL MONITOR.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBERS 704142 AND 704155. SEE THESE CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 1128 DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.

- 704375 SIGMA 5/7 MAGNETIC TAPE EDITOR - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS WHEREBY SYMBOLIC SOURCE PROGRAMS ON MAGNETIC TAPE MAY BE EASILY MODIFIED AND MAINTAINED. IT IS DESIGNED TO OPERATE UNDER CONTROL OF THE XDS SIGMA MONITOR. THEREFORE, OTHER MEDIA AND DEVICES MAY BE ASSIGNED AND USED WHERE APPLICABLE.
COMMENTS:
THE PROGRAM IS ORIENTED TOWARD A COMPUTER SYSTEM CONSISTING OF A SIGMA 5/7 WITH 8K MEMORY, TYPEWRITER, CARD READER, LINE PRINTER AND TWO MAGNETIC TAPE UNITS. PROGRAM SIZE IS APPROXIMATELY 1108 DECIMAL WORDS.
- 704396 SIGMA 5/7 COPY AND SEQUENCE PROGRAM - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL COPY VARIABLE LENGTH RECORDS (EITHER BINARY OR EBCDIC). IT WILL READ FROM ANY 8I DEVICE AND WRITE ON ANY PO DEVICE USING BASIC CONTROL MONITOR I/O. AN IDENTIFICATION NUMBER CAN BE INSERTED INTO COLUMNS 73-75 OF THE SOURCE IMAGE AND COLUMNS 76-80 WILL BE SEQUENCED IN INCREMENTS OF TEN. EITHER DIRECT OR FORMATTED INFORMATION CAN BE COPIED.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER. THIS PROGRAM REQUIRES APPROXIMATELY 528 DECIMAL LOCATIONS.
- 704397 SIGMA 5/7 UTILITY SOURCE-LISTING MAG TAPE
AUTHOR: XEROX
ABSTRACT:
THIS CATALOG NUMBER HAS ESTABLISHED IN ORDER TO CONVENIENTLY DISTRIBUTE PROGRAM SOURCE DECKS AND LISTINGS ON A MINIMUM NUMBER OF MAGNETIC TAPES.
COMMENTS:
THIS CATALOG NUMBER INCLUDES THE SOURCE AND LISTINGS FOR CATALOG NUMBERS 704375, 704396, 704398, 704422, 704442, 704444, 04778 THRU 704785, 704855 AND 704448.
- 704398 SIGMA 5/7 TAPE LIST PROGRAM - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LIST ANY LO TAPE OR PRINT ANY MULTI-FILED SOURCE TAPE. IT USES MONITOR I/O PROCEDURES AND REQUESTS NUMBER OF FILES TO BE LISTED AND TYPE OF MAG TAPE FROM THE OPERATOR'S CONSOLE.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER WITH A LINE PRINTER. THIS PROGRAM REQUIRES APPROXIMATELY 196 DECIMAL LOCATIONS.
- 704422 SIGMA 5/7 PAPER TAPE COPY & VERIFY PROGRAM-UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM COPIES AND VERIFIES BINARY RECORDS IN EITHER THE DIRECT OR FORMATTED MODE USING BASIC CONTROL MONITOR I/O. IT WILL READ FROM ANY H:SI DEVICE AND WRITE ON H:PO OR H:BO. THE PROGRAM WILL TERMINATE ON EITHER ONE OR TWO EOD'S. A REQUEST FOR MORE FILES TO COPY IS MADE AFTER TERMINATION AND IF NO MORE ARE DESIRED, CONTROL IS RETURNED TO THE MONITOR.
COMMENTS:
COMPUTER CONFIGURATION REQUIREMENTS ARE: ANY SIGMA 5/7 COMPUTER WITH PAPER TAPE READER AND PUNCH. (ONE MAG TAPE UNIT IS REQUIRED IN ORDER TO USE THE VERIFY OPTION.) THE PROGRAM REQUIRES APPROXIMATELY 268 DECIMAL LOCATIONS.
- 704428 SIGMA 5-9 META-SYMBOL ASSEMBLER (COVER)
AUTHOR: XEROX
ABSTRACT:
META-SYMBOL IS A TWO-PASS META-ASSEMBLER WHICH OPERATES AS A BACKGROUND PROCESSOR UNDER THE BATCH MONITOR OR AS A SHARED PROCESSOR UNDER THE UNIVERSAL TIME SHARING MONITOR. IT ACCEPTS PROGRAMS IN SYMBOLIC, COMPRESSED, OR COMPRESSED WITH SYMBOLIC CHANGES, AND CONVERTS THEM TO MACHINE LANGUAGE (OBJECT) AND/OR COMPRESSED OUTPUT, WITH AN OPTIONAL PROGRAM LISTING.
COMMENTS:
COMPUTER CONFIGURATION IS DICTATED BY THE OPERATING SYSTEM UNDER WHICH META-SYMBOL IS TO OPERATE. APPLICABLE PUBLICATIONS ARE THE BATCH PROCESSING MONITOR REFERENCE MANUAL (900954), THE UNIVERSAL TIME-SHARING MONITOR REFERENCE MANUAL (900907), AND THE META-SYMBOL REFERENCE MANUAL (900952). META-SYMBOL IS DISTRIBUTED ON A SINGLE TAPE CONTAINING BOTH COMPRESSED AND RELOCATABLE BINARY ELEMENTS.
- 704442 SIGMA 5/7 CARD COPY AND VERIFY PROGRAM - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM COPIES BINARY CARD IMAGES ONTO MAGNETIC TAPE, PUNCHES MULTIPLE COPIES FROM MAGNETIC TAPE, AND VERIFIES THE PUNCHED CARDS AGAINST THE MAG TAPE. REQUESTS TO PERFORM THESE OPTIONS CAN BE MADE IN ANY ORDER. STANDARD MONITOR I/O PROCEDURES ARE USED. ALL OF THE THREE OPTIONS TERMINATE ON TWO SUCCESSIVE EOD'S.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY SIGMA 5/7 COMPUTER WITH CARD READER, CARD PUNCH AND ONE MAGNETIC TAPE UNIT. THIS PROGRAM REQUIRES APPROXIMATELY 247 DECIMAL LOCATIONS.

- 704444 SIGMA 5/7 STAND-ALONE REGISTER SAVE GENERATOR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS FOR SAVING THE GENERAL REGISTERS DURING AN INITIAL LOAD PROCEDURE FROM CARDS. WHEN EXECUTED, THIS PROGRAM PUNCHES AN ABSOLUTE CARD TO BE USED AS THE FIRST CARD OF THE LOAD PROCEDURE. THE EFFECT OF THE CARD WHEN LOADED, IS TO SAVE THE GENERAL REGISTERS IN HEXADECIMAL LOCATIONS 60 THROUGH 6F, AND BRINGS IN THE NEXT CARD FOR EXECUTION.
COMMENTS:
PROGRAM SIZE IS APPROXIMATELY 39 DECIMAL LOCATIONS. IT WILL EXECUTE ON ANY SIGMA 5/7 WITH CARD READER AND PUNCH.
- 704768 SIGMA 5/6/7 BPH USER PROCEDURES - SYSTEM BPH
AUTHOR: XEROX
ABSTRACT:
THESE PROCEDURES ENABLE THE USER TO REQUEST CERTAIN MONITOR FUNCTIONS THROUGH META-SYMBOL. FUNCTIONS INCLUDE AREAS SUCH AS MEMORY MANAGEMENT, LOADING, INPUT/OUTPUT, FORGROUND CONTROL, AND DEBUGGING.
COMMENTS:
THIS PROGRAM IS USED BY CATALOG NO. 704428. SEE THIS CATALOG NO. FOR CONFIGURATION REQUIREMENTS AND RELATED MANUALS. ALSO SEE SIGMA 5/7 BPH REFERENCE MANUAL, 900954.
- 704770 SIGMA 5/7 MEMORY DUMP SUBROUTINE - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS MEMORY DUMP SUBROUTINE HAS FOUR ENTRY POINTS, FOR DISPLAYING AREAS OF MEMORY, OR USER-SUPPLIED MESSAGES ON PRINTER OR TELETYPE. THE ENTRY POINTS ARE: U:DCP - PRINTER DUMP (LL DEVICE), U:DCT-TELETYPE DUMP (OC DEVICE), U:PRTM50 - PRINT MESSAGE (LL DEVICE), U:TYPMS0 - TYPE MESSAGE (OC DEVICE) ON ENTRY, FOR DUMPS, REGISTER 6 IS START ADDRESS, AND REGISTER 7 IS END ADDRESS. FOR MESSAGES, REGISTER 8 CONTAINS ADDRESS OF A MESSAGE STRING IN SYMBOL TEXTC FORMAT. THE GENERAL REGISTERS ARE SAVED AND RESTORED ON ENTRY AND EXIT.
COMMENTS:
THE SUBROUTINE USES APPROXIMATELY 270 DECIMAL LOCATIONS. IT USES STAND-ALONE I/O, OR MONITOR PRINT AND TYPE FUNCTIONS, AND WILL THUS OPERATE ON ANY SIGMA 5/7 WHICH WILL ACCOMODATE THESE SYSTEMS.
- 704779 SIGMA 5/7 STAND-ALONE SELECTIVE DUMP - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS A SELF-CONTAINED SELECTIVE DUMP PROGRAM FOR DISPLAYING THE CONTENTS OF MEMORY ON THE PRINTER OR TELETYPE THE OUTPUT DEVICE AND DUMP LIMITS ARE OBTAINED FROM TELETYPE COMMANDS AT EXECUTION TIME.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 350 DECIMAL LOCATIONS, AND CONTAINS ITS OWN I/O. THE ABS DUMPING LOADER IS USED TO MAKE AN ABSOLUTE VERSION WHICH LOADS INTO THE DESIRED AREA OF MEMORY. THIS VERSION OF THE LOADER IS CATALOG NO. 704155. THE ABSOLUTE VERSION MUST BE USED WITH A LOADER WHICH SAVES THE GENERAL REGISTERS IN HEXADECIMAL LOCATIONS 60 THROUGH 6F. PRIOR TO EXECUTION. THIS MAY BE CONSTRUCTED USING THE REGISTER SAVE GENERATOR (CAT. NO. 704444) AND THE STANDARD ABS LOADER (CAT. NO. 704145)
- 704780 SIGMA 5/7 STAND-ALONE MAG TAPE OR DISC DUMP-UTIL.
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY FOR DUMPING FILES, RECORDS, OR INDIVIDUAL WORDS FROM A MAGNETIC TAPE, OR TRACKS, SECTORS, OR WORDS FROM A DISC FILE. THESE DUMPS MAY BE IN EITHER EBCDIC OR HEXADECIMAL, AND ALL MODELS OF 7 AND 9 TRACK DRIVES ARE PROVIDED FOR. IN THE CASE OF MAGNETIC TAPE A COUNT OF THE NUMBER OF FILES MAY BE REQUESTED, AS MAY A COUNT OF THE NUMBER OF RECORDS, AND WORDS IN EACH RECORD, WITHIN ANY FILE.
COMMENTS:
THIS PROGRAM REQUIRES APPROXIMATELY 2350 DECIMAL LOCATIONS AND IS LOADED BY THE STAND ALONE LOADER AND I/O HANDLERS. IT WILL OPERATE ON A SIGMA 5/7 WITH TELETYPE, AND EITHER TAPE OR DISC FOR INPUT INFORMATION, AND A DEVICE FOR LISTING OUTPUT.
- 704781 SIGMA 5/7 STD-ALONE DISC SAVE-RESTORE ROUTINE-UTIL
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES FOR THE TRANSFER OF INFORMATION FROM DISC TO CARDS, PAPER TAPE OR MAGNETIC TAPE, FOR STORAGE. THE PROGRAM WILL ALSO ACCEPT SUCH STORED INFORMATION FOR TRANSFER BACK TO THE DISC. A VERIFY PASS IS OPTIONAL WHEN SAVING OR RESTORING. THE INFORMATION TRANSFERRED MAY BE DISPLAYED ON THE LO DEVICE. THE PROGRAM USES ITS OWN ABSOLUTE FORMAT FOR STORING THE INFORMATION ON THE EXTERNAL MEDIUM.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 1500 DECIMAL LOCATIONS AND UTILIZES THE STAND-ALONE LOADER AND I/O HANDLER PACKAGE. THE SI DEVICE IS USED FOR CONTROL INFORMATION, OUTPUT IS ON 80, INPUT ON 81. LIST OUTPUT IS ON THE LO DEVICE. THE PROGRAM WILL OPERATE ON A SIGMA 5/7 WITH DISC AND ONE MAGNETIC TAPE, CARD READER/PUNCH, OR PAPER TAPE READER/PUNCH.
- 704782 SIGMA 5/7 S/A FILE CPY AND VER(CARD,PUT,MT)-UTIL.
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PRODUCES SINGLE OR MULTIPLE COPIES OF AN INPUT FILE USING MAGNETIC TAPE OR MEMORY FOR INTERMEDIATE STORAGE. VERIFICATION OF COPIES IS OPTIONAL. THE PROGRAM WILL ALSO PRODUCE MULTIPLE COPIES OF LIST TAPES ON A LINE PRINTER. INPUT FILES MAY BE FIXED OR VARIABLE LENGTH RECORDS, AND THE CAPABILITY

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- 704782 S/A FILE COPY AND VERICARD,PUT,MT)-UTIL. (CONTINUED)
TO POSITION TO A DESIRED INPUT FILE IS PROVIDED.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 875 DECIMAL LOCATIONS, AND USES THE STAND-ALONE I/O HANDLERS. IT MAY ALSO BE USED WITH THE BASIC CONTROL MONITOR (CAT. NO. 704144). THE ROUTINE WILL OPERATE ON ANY SIGMA 5/7 WITH TELETYPE AND THE NECESSARY PERIPHERALS FOR THE OPERATION DESIRED. THE PROGRAM USES OPERATIONAL LABELS TO ACCESS PHYSICAL DEVICES.
- 704783 SIGMA 5/7 MAG. TAPE CONVERSION (7/9 TRACK) - UTIL
AUTHOR: XEROX
- 704784 SIGMA 5/7 MEDIA CONVERSION AND EDITOR ROUTH-UTIL
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A VARIETY OF UTILITY FUNCTIONS RELATIVE TO BCD(EBCDIC) AND BINARY CARD IMAGE FILES. THESE INCLUDE SEQUENCING, RE-SEQUENCING, SEQUENCE CHECKING, COMPRESSION, RECONSTRUCTION, AND BCD TO EBCDIC CONVERSIONS. THE COMMERCIAL BCD/EBCDIC TRANSFORMATION IS ACCOMPLISHED THROUGH AN EXTERNAL TABLE (CAT. NO. 704855). THE USER MAY PROVIDE HIS OWN TABLE IN ORDER TO SPECIFY AN ARBITRARY BCD/EBCDIC CONVERSION SCHEME. THE PROGRAM CONTAINS A GENERAL, FILE-ORIENTED, EDITING SCHEME WHERE ENTIRE FILES OR RECORDS WITHIN FILES MAY BE INSERTED OR DELETED. RECORD POSITIONING MAY BE DONE ON A KEYWORD BASIS. THE PROGRAM PROVIDES A BLOCKING CAPABILITY FOR MAGNETIC TAPE.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 3500 DECIMAL LOCATIONS, AND IS USED UNDER BASIC CONTROL MONITOR OPERATING CONVENTIONS, AND CONFIGURATION.
- 704785 SIGMA 5/7 S/A COMP/SOURCE UPDATE EDITOR - UTILITY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY FOR TRANSLATING SYMBOLIC PROGRAMS INTO SIGMA STANDARD COMPRESSED LANGUAGE FORMAT. THE ROUTINE WILL ALSO UPDATE, LIST, OR RECONSTRUCT PROGRAMS ALREADY IN COMPRESSED FORMAT, AS WELL AS UPDATE OR LIST SYMBOLIC FILES. THE UPDATE NOTATION IS THAT USED BY META-SYMBOL. UPDATE AND DATA FILES MAY BE ON THE SAME OR DIFFERENT DEVICES, AND AS THE UPDATES ARE READ TO MEMORY, NO EXTERNAL INTERMEDIATE STORAGE IS REQUIRED WHEN THEY ARE ON THE SAME DEVICE UPDATE INFORMATION IS TAKEN FROM THE SI DEVICE, THE INPUT DATA FILE IS ON THE LI DEVICE. THE OUTPUT FILE IS ON THE BO DEVICE, WITH THE LISTING ON THE LO DEVICE.
COMMENTS:
THIS PROGRAM REQUIRES APPROXIMATELY 1500 DECIMAL LOCATIONS, AND MAY BE USED WITH EITHER THE STAND-ALONE LOADER WITH I/O HANDLER (CAT. NO. 704142), OR WITH THE BASIC CONTROL MONITOR (CAT. NO. 704144). THE ROUTINE WILL OPERATE ON ANY SIGMA 5/7 EQUIPPED WITH TELETYPE AND APPROPRIATE INPUT-OUTPUT DEVICES FOR THE TYPE FUNCTION TO BE PERFORMED.
- 704851 SIGMA 5/7 7 TRACK MAGNETIC TAPE I/O HANDLER
AUTHOR: XEROX
ABSTRACT:
THIS HANDLER PROVIDES THE USE OF ALL THE 7 TRACK OPTIONS IN CONJUNCTION WITH THE MAGNETIC TAPE I/O HANDLER, CATALOG NUMBER 704389. IN ADDITION, IT PROVIDES A SIMULATED READ REVERSE CAPABILITY.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBERS 704142, 704144, 704155, AND 705280. SEE THESE CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 28 DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBERS 705280 AND 704127.
- 704853 SIGMA 5/7 STAND-ALONE I/O INITIALIZATION
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE PROVIDES INITIALIZATION REQUIRED BY STAND ALONE I/O PACKAGE AFTER THE SYSTEM IS LOADED.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBERS 704142 AND 704155. SEE THESE CATALOG NUMBERS FOR CONFIGURATION REQUIREMENTS AND MANUAL REFERENCES. THE CORE RESIDENCY IS APPROXIMATELY 12 DECIMAL LOCATIONS. NOTE: THE RELOCATABLE BINARY IS AVAILABLE UNDER CATALOG NUMBER 704127.
- 704855 SIGMA 5/7 BCD/EBCDIC TRANSLATION TABLE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE STANDARD COMMERCIAL BCD/EBCDIC TRANSLATION TABLE FOR USE WITH THE MAGNETIC TAPE CONVERSION ROUTINE (CAT. NO. 704783), AND THE MEDIA CONVERSION AND EDITOR PROGRAM (CAT. NO. 704784). THE USER MAY PROVIDE HIS OWN TRANSLATION TABLE, IN ORDER TO IMPLEMENT AN ARBITRARY BCD/EBCDIC CONVERSION.
COMMENTS:
THIS PROGRAM REQUIRES APPROXIMATELY 5 DECIMAL WORDS, AND IS NON-EXECUTABLE.
- 704885 SIGMA 5-9 SORT/MERGE FOR 8PH/BTH
AUTHOR: XEROX
ABSTRACT:
THESE PROGRAMS PROVIDE GENERALIZED FILE SORTING AND MERGING CAPABILITY FOR THE SIGMA 5-9. FILES MAY CONSIST OF FIXED OR VARIABLE LENGTH RECORDS AND MAY RESIDE ON ANY COMBINATION OF INPUT DEVICES. THE SORT UTILIZES A POLYPHASE MERGING ALGORITHM AND CAN USE ANY COMBINATION OF SEVEN TRACK MAGNETIC TAPE, NINE

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- 704985 SORT/MERGE FOR BPH/BTH (CONTINUED)
TRACK MAGNETIC TAPE, AND RAD AS INTERMEDIATE STORAGE. THE SORT MAY BE CALLED AS A BATCH JOB PROCESSOR OR AS A DYNAMIC LINKED SUBROUTINE. THE MERGE PROGRAM ALLOWS THE MERGING OF UP TO EIGHT IDENTICALLY FORMATTED AND ORDERED FILES. BOTH SORT AND MERGE PROVIDE SIX OWN-CODE EXITS.
COMMENTS:
REQUIRED CONFIGURATION IS ANY SIGMA 5-9 WITH BATCH PROCESSING MONITOR. AT LEAST 7K OF AVAILABLE MEMORY AND EITHER THREE TAPE DRIVES OR RAD STORAGE EQUAL TO THREE TIMES MAXIMUM INPUT FILE SIZE ARE REQUIRED. THE BINARY ROMS AND COMPRESSED FILES ARE NOW ON ONE TAPE.
- 705000 SIGMA 5-9 BPH/BTH OPERATING SYSTEM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE BASE COMPRESSED ELEMENTS FOR THESE ASSEMBLIES ARE PART OF LABELED TAPE 705000-46H00. SOURCE UPDATES WHICH HAVE BEEN APPLIED TO THAT BASE TO MAKE THE BINARY ELEMENTS ON TAPE 705000-86H01 ARE ALSO AVAILABLE ON TAPE 705000-86H01. IT IS ALSO AVAILABLE ON PACK (CUSTOMER SUPPLIED).
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 705001 SIGMA 5-9 EXTENDED FORTRAN IV/IV-H COMPRESSED LIB.
AUTHOR: XEROX
ABSTRACT:
THE COMPRESSED TAPE CONTAINS SYSTEM FLIBMODE, SYSTEM XOS AND ALL THE MATH AND RUNTIME ROUTINES ADDED TO CREATE THE FORTRAN LIBRARY FOR BPH/BTH/UTS, BPH REALTIME, RBM, RBM REALTIME OR BCM. IN ADDITION, FLAG LIBRARIES FOR BPH AND UTS MAY BE ASSEMBLED. BINARY TAPES ARE ALSO AVAILABLE UNDER CATALOG NUMBERS 705738 (RBM), 705821 (BCM), 705820 (BPH/BTH/UTS), AND 705819 (FLAG).
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH/UTS OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THIS LABELED TAPE MUST BE USED UNDER THE BPH/BTH/UTS MONITORS. AN UNLABELED COPY EXISTS ON 705738 FOR MACROSYMBOL (RBM AND BCM). THE FILES FLIBMODE AND XOS MUST BE PLACED IN AN ACCOUNT AND REFERENCED AS A SYSTEM PROC ON THE METASYM OR MACRSYM CARD AS EACH LIBRARY ROUTINE REFERENCES ONE OR BOTH OF THESE SYSTEMS.
- 705280 SIGMA 5/7 LOAD ONE PASS AND EXECUTE (LOPE) BPH
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE BCM STANDARD LOADER INTERFACED WITH BPH. IT IS PRIMARILY FOR USE WITH FORTRAN-COMPILED PROGRAMS. THE SYSTEM ACCEPTS ENTIRE OBJECT LANGUAGE WITH ONE EXCEPTION: DUMMY SECTIONS MUST FIRST BE DECLARED AT MAXIMUM SIZE
- 705281 SIGMA 5-9 1400 SERIES SIMULATOR
AUTHOR: XEROX
ABSTRACT:
THE 1400 SERIES SIMULATOR WILL EXECUTE 1400 SERIES OBJECT PROGRAMS AUTOMATICALLY AS IF THEY WERE RUN ON A 1401, 1460, OR 1440. VIRTUALLY ANY OBJECT PROGRAM CAN BE SIMULATED INCLUDING OBJECT CODE PRODUCED BY SPS, AUTOCODER, RPO, ETC., AS WELL AS UTILITY ROUTINES. ALMOST ALL 1400 OPERATIONS CAN BE SIMULATED. THE FEW EXCEPTIONS ARE THOSE INPUT/OUTPUT AREAS WHERE HARDWARE DIFFERENCES MAKE TOTAL SIMULATION IMPOSSIBLE. THE 1400 SERIES SIMULATOR OPERATES UNDER THE BATCH PROCESSING MONITOR AND THE UTS MONITOR.
COMMENTS:
THE SIMULATOR REQUIRES APPROXIMATELY 11500 DECIMAL WORDS. IT CONSISTS OF 10 PROGRAMS THAT ARE NOT OVERLAID. THEY ARE: SIM1, TAPE DATA1, DATA2, DATA3, SIM2, SIM3, MCE, SIM4 AND DISC. TAPECON IS AN INDEPENDENT PROGRAM THAT IS INCLUDED ON THE PROCESSOR TAPE. ALL TAPES GOING INTO A SIMULATOR RUN, MUST FIRST BE CONVERTED TO SIMULATOR FORMAT BY USING THE TAPECON PROGRAM.
THE BINARY ROMS AND COMPRESSED FILES ARE NOW ON ONE TAPE.
- 705380 SIGMA 5/7 SYSTEM FORTCOMP PROCEDURES
AUTHOR: XEROX
ABSTRACT:
SYSTEM FORTCOMP IS A METASYMBOL SYSTEM (LIKE SIG7FDP) THAT IS CALLED FORTH BY ALMOST EVERY ASSEMBLY IN THE XDS SIGMA 5/7 FORTRAN IV COMPILER (NOT THE LIBRARY). ITS MAIN PURPOSE IS TO DEFINE THE 'POP' OP-CODES USED IN THE COMPILER'S INTERPRETIVE LANGUAGE. IT ALSO DEFINES REGISTER VALUES, TYPE CODES, CHARACTER VALUES, AND SOME OTHER SPECIAL PARAMETERS. FINALLY, IT REF'S A NUMBER OF COMMONLY USED SYMBOLS IN THE INTERPRETER.
- 705381 SIGMA 5-9 SYSTEM FORTLIB
AUTHOR: XEROX CORPORATION
ABSTRACT:
SYSTEM FORTLIB DEFINES SYMBOLIC PARAMETER VALUES, CALLING/RECEIVING SEQUENCE OP-CODES, AND FORTRAN STATEMENT PROCS FOR USE IN INTERFACING ASSEMBLY LANGUAGE PROGRAMS WITH EXTENDED FORTRAN IV.
COMMENTS:
SYSTEM FORTLIB WILL RUN ON ANY SYSTEM THAT SUPPORTS METASYMBOL AND EXTENDED FORTRAN IV.
- 705398 SIGMA 5-9 BPH/BTH BASIC COMPILER
AUTHOR: XEROX
ABSTRACT:
BTH/BPH BASIC COMPILER. SEE REFERENCE MANUAL 90-14-48
COMMENTS:
OPERATES ON ANY BTH/BPH CONFIGURATION. CONSISTS OF TWO VERSIONS, ON-LINE (BTH) AND BATCH (BPH)

- 705415 SIGMA 5/8/7 BTH-EXEC (EXECUTIVE PROGRAM)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM, ALONG WITH THE BTH INITIALIZATION ROUTINE, COMPRISES THE TIME SHARING EXECUTIVE FOR THE BTH SYSTEM. THIS PROGRAM HANDLES THE SCHEDULING OF ON-LINE PROGRAMS, THE BUFFERING OF CONSOLE I/O, AND THE INTERFACE OF ON-LINE RAD I/O REQUESTS TO THE BPH FILE MANAGEMENT SYSTEM. IT ALSO PERFORMS THE CONSOLE EXECUTIVE FUNCTIONS OF LOGGING ON AND OFF, FILE ASSIGNMENT, AND SETTING CONSOLE TAB STOPS.
COMMENTS:
THE PROGRAM IS CODED IN META-SYMBOL AND OCCUPIES APPROXIMATELY 8018 DECIMAL WORDS.
- 705673 SIGMA 5-9 DATADEF SYSTEMS PROGRAMMING PROCEDURES
AUTHOR: XEROX
ABSTRACT:
DATADEF IS A META-SYMBOL PROCEDURE SYSTEM. IT PROVIDES A POWERFUL SYSTEM PARAMETERIZATION AND MACRO-INSTRUCTION CAPABILITY, THEREBY AIDING MAINTAINABILITY AND SELF-DOCUMENTATION OF PROGRAMS. IT IS A SYSTEM PROGRAMMING LANGUAGE THAT IMPLEMENTS A SIMPLE MEANS FOR ACCESSING PACKED DATA STRUCTURES BY ESTABLISHING CENTRALIZED DEFINITIONS OF DATA ITEMS IN A DICTIONARY, WHICH IS THEN USED BY THE PROCS. TO GENERATE SEQUENCES OF MACHINE INSTRUCTIONS THAT ALLOW ACCESS AND MANIPULATION OF DATA ITEMS BY NAME. BY THIS MEANS, HARD-CODING OF DATA ITEM ADDRESSES, LENGTHS, SHIFTS, MASKS, ETC. CAN BE ELIMINATED.
COMMENTS:
THIS LANGUAGE CAN BE USED TO IMPROVE EXISTING PROGRAMS. HOWEVER, THE GREATEST BENEFIT IS OBTAINED IN CODING NEW PROGRAMS, SINCE THAT IS THE TIME WHEN USE OF DISCIPLINE HAS THE GREATEST EFFECT ON SUCCESSFUL SYSTEM IMPLEMENTATION. WHENEVER DATADEF IS USED, IT REQUIRES CONSISTANT REFERENCE TO DATA BY NAME, ENHANCING SELF-DOCUMENTATION. ITS MACROS PROVIDE ACCESS TO THE NAMED DATA IN TERMS OF A TASK-ORIENTED LANGUAGE, WHICH TYPICALLY REDUCES THE NUMBER OF STATEMENTS REQUIRED.
- 705677 SIGMA 5/7 STAND-ALONE ERROR LOG ANALIZER FOR BPH
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM LISTS THE ERRORS LOGGED BY THE BPH ERROR LOG FEATURE (AVAILABLE BEGINNING IN D00 BPH). THE PROGRAM RUNS AS A STAND-ALONE PROGRAM IN UPPER MEMORY TO PRESERVE THE INTEGRITY OF THE RESIDENT MONITOR.
COMMENTS:
SEE THE PRINTED DESCRIPTION FOR DETAILS.
- 705732 SIGMA 5-9 REAL-TIME BATCH MONITOR (RBM)
AUTHOR: XEROX
ABSTRACT:
RBM IS AN OPERATING SYSTEM WHICH FEATURES CONCURRENT BACKGROUND-FOREGROUND PROCESSING, QUEUING OF I/O REQUESTS, PERMANENT FILES ON RAD OR DISK PACK, AND RAPID RESPONSE TO EXTERNAL INTERRUPTS. IT ALLOWS RAD OR DISK PACK SYSTEM RESIDENCY WHILE SUPPORTING ANY COMBINATION OF RADS AND PACKS. THIS OPERATING SYSTEM INCLUDES A FULL REPERTOIRE OF SERVICE FUNCTIONS AND SUPPORTS SYMBOL, MACROSYMBOL, REAL-TIME FORTRAN IV-H, AND SL-1.
COMMENTS:
SIGMA 5/7 WITH MINIMUM OF 18K MEMORY, MINIMUM OF .75 MEGABYTE SECONDARY RAD STORAGE, KEYBOARD PRINTER, PAPER TAPE UNIT OR CARD READER, AND MEMORY PROTECT. ALSO SUPPORTED ARE MAGNETIC TAPE UNITS (SEVEN AND NINE TRACK) LINE PRINTERS (7440,7445,7450) CARD PUNCHES (7160,7165) AND DISK PACKS (7242,7248). COMPRESSED ENCODED CARDS, 705732-44, MAY BE ORDERED BY SPECIAL REQUEST. 705732-44 CONTAINS: SYSDEN LOADER, SYSDEN, INSTRUCTION SIMULATORS, RESIDENT RBM, RBM OVERLAYS, AND JOB CONTROL PROCESSOR.
- 705733 SIGMA 5/7 RBM OVERLAY LOADER
AUTHOR: XEROX
ABSTRACT:
THE OVERLAY LOADER CREATES ABSOLUTE LOAD MODULES FROM OBJECT MODULES CODED IN THE STANDARD SIGMA 5/7 OBJECT LANGUAGE. THE LOADER'S MAIN FUNCTIONS ARE: (1) TO SATISFY DEF/REF LINKAGES BETWEEN OBJECT MODULES IN THE SAME OVERLAY PATH, (2) TO LINK EXTERNAL REFERENCES TO ROUTINES IN SPECIFIED PUBLIC LIBRARIES, (3) TO INCLUDE REFERENCED ROUTINES FROM THE SYSTEM AND/OR USER LIBRARY, (4) TO ALLOCATE PROGRAM CONTROL AND DUMMY SECTIONS, AND (5) TO CREATE THE PROGRAMS ABSOLUTE CORE IMAGE AND SUPPLY THE NECESSARY RBM INTERFACE.
COMMENTS:
SIGMA 5/7 RBM-2 CONFIGURATION. COMPRESSED ENCODED CARDS, 705733-44, MAY BE ORDERED BY SPECIAL REQUEST.
- 705734 SIGMA 5/7 RBM RAD EDITOR
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 5/7 RAD EDITOR IS A BACKGROUND PROCESSOR WHICH OPERATES IN AN RBM SYSTEM. IT PROVIDES THE CAPABILITY TO CREATE, DELETE, COPY, MAP, AND DUMP FILES ON RAD/DISK, CREATE AND MAINTAIN LIBRARIES FOR USE BY THE RBM OVERLAY LOADER, SAVE THE CONTENTS OF A RAD/DISK IN SELF-RELOADABLE FORM, RESTORE RAD AREAS SAVED, AND INHIBIT USE OF BAD TRACKS.
COMMENTS:
SIGMA 5/7 RBM CONFIGURATION. COMPRESSED ENCODED CARDS, 705734-44, MAY BE ORDERED BY SPECIAL REQUEST.
- 705738 SIGMA 5-9 EXTENDED FORTRAN IV/IV-H LIB. (RBM)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE LIBRARY FOR THE REALTIME AND STANDARD AREAS OF RBM. THE RELEASE INCLUDES THE COMPRESSED OF ALL THE LIBRARY ROUTINES. THE COMPRESSED MAY BE ASSEMBLED USING MACROSYMBOL UNDER RBM. THE LIBRARY MAY BE USED WITH EITHER FORTRAN IV OR FORTRAN IV-H AND THE OLOAD LOADER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 705776 SIGMA 5/7 EXTENDED FORTRAN IV-H (RBM VERSION)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE EXTENDED FORTRAN IV-H COMPILER WHICH OPERATES UNDER THE CONTROL OF THE RBM MONITOR. IT READS FORTRAN IV-H SOURCE STATEMENTS AND CONVERTS THEM TO MACHINE LANGUAGE OBJECT PROGRAMS. THE COMPILE TIME OPTION 'RT' ALLOWS THE USER TO OBTAIN RE-ENTRANT OBJECT PROGRAMS WHICH CAN BE RUN IN A REAL-TIME ENVIRONMENT.
- 705782 SIGMA 5/7 FILE PURGE
AUTHOR: XEROX
ABSTRACT:
THE FILE PURGE PROGRAM RUNS UNDER BPM/BTM. THE FILE PURGE (FPURGE) PROCESSOR WILL PERFORM THE FOLLOWING FUNCTIONS: 1. PURGE (RELEASE) ALL UNWANTED USER'S FILES FROM THE RAD(S). 2. SAVE (COPY) ALL WANTED USER'S FILES ONTO MAGNETIC TAPE. 3. RESTORE BACK ONTO THE RAD(S) FILES PREVIOUSLY SAVED ONTO TAPE. 4. LOG (LIST) THE NAMES OF ALL RAD FILES BY ACCOUNT NUMBERS ONTO THE LINE PRINTER.
COMMENTS:
USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.
- 705819 SIGMA 5-9 BPM/CP-V FLAG
AUTHOR: XEROX
ABSTRACT:
THIS IS A ONE-PASS IN-CORE FORTRAN COMPILER PROVIDING EXTREMELY FAST COMPILATION SPEED, EXTENSIVE ERROR CHECKING, AND EFFICIENT OBJECT PROGRAMS WITH OPTIONAL RUN-TIME DIAGNOSTIC CHECKS. FLAG IS AVAILABLE FOR BPM AND CP-V.
COMMENTS:
FLAG TAPE CONTAINS BPM AND CP-V BINARY AS WELL AS COMPRESSED SOURCE.
- 705820 SIGMA 5-9 EXT. FORTRAN IV/IV-H LIBS. (BPM/BTM)
AUTHOR: XEROX
ABSTRACT:
THE RELEASE CONTAINS LIBRARIES FOR BPM/BTM AND BPM REAL-TIME. ALL THE NECESSARY ROMS FOR THESE LIBRARIES AS WELL AS STANDARD FILES ARE ON THE TAPE IN ALPHABETICAL ORDER. THE LOCCT FILES FOR THE BPM STANDARD GROUPS, BPM REALTIME GROUPS, AND CORE RESIDENT LIBRARIES ARE ON THE TAPE. THE LIBRARIES MAY BE USED BY THE LOAD, LOPE AND LINK LOADERS WITH THE FORTRAN IV OR FORTRAN IV-H (BPM ONLY) COMPILERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE COMPRESSED FOR THIS SYSTEM IS CONTAINED ON 705801-48.
- 705821 SIGMA 5-9 EXTENDED FORTRAN IV/IV-H LIBRARY (BCM)
AUTHOR: XEROX
ABSTRACT:
THE RELEASE CONTAINS THE ROMS IN THE PROPER ORDER FOR A ONE PASS LOAD. THE ROMS ARE THOSE USED WITH OUTPUT FROM THE FORTRAN IV-H COMPILER.
COMMENTS:
THE COMPRESSED FOR THIS RELEASE IS OBTAINABLE FROM 705001 (FOR METASYM) OR 705730 (FOR MACROSYM).
- 705835 SIGMA 5-9 EXTENDED FORTRAN IV COMPILER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE EXTENDED IV COMPILER WILL COMPILE FORTRAN IV SOURCE INPUT CODE AND GENERATE STANDARD SIGMA OBJECT CODE FOR IT. THE OBJECT CODE CAN THEN BE LINKED AND EXECUTED UNDER ANY STANDARD SIGMA 5/6/7/9 BPM/BTM OR SIGMA 6/7/9 UTS OR SIGMA 5/8 RBM OPERATING SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, RBM AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL AND POPS.
POPS (PROGRAMMED OPERATORS), IS THE MAIN LANGUAGE OF THE COMPILER.
- 705836 SIGMA 5/7 SYSTEM FORTCOMP FOR EXTENDED F-IV
AUTHOR: XEROX
ABSTRACT:
THESE PROCEDURES PERFORM A SIMILIAR FUNCTION AS CAT. NO. 705360. HOWEVER THESE PROCEDURES MUST BE UNIQUELY USED WITH EXTENDED FORTRAN IV AND ONLY WITH EXTENDED FORTRAN IV.
- 705848 SIGMA 5/7 SYMBOL ASSEMBLER (RBM VERSION)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM IS THE ONE PASS ASSEMBLER WHICH OPERATES UNDER CONTROL OF THE RBM. IT READS SYMBOLIC SOURCE LANGUAGE PROGRAMS AND CONVERTS THEM TO MACHINE LANGUAGE (OBJECT) PROGRAMS. ITS BINARY OUTPUT MAY BE LOADED BY THE OVERLAY LOADER.
COMMENTS:
THIS ASSEMBLER WILL OPERATE IN A MINIMUM RBM CONFIGURATION. THE CORE RESIDENCY (EXCLUSIVE OF DYNAMIC TABLE SPACE) IS APPROXIMATELY 3.7K WORDS DECIMAL.

- 705850 SIGMA 5/7 EXTENDED FORTRAN IV-H (BCM VERSION)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS THE EXTENDED FORTRAN IV-H COMPILER WHICH OPERATES UNDER THE CONTROL OF THE BCM MONITOR. IT READS FORTRAN IV-H SOURCE STATEMENTS AND CONVERTS THEM TO MACHINE LANGUAGE OBJECT PROGRAMS.
- 705851 SIGMA 5/6/7 EXTENDED FORTRAN IV-H (BPM,BTM)
AUTHOR: XEROX
ABSTRACT:
TWO VERSIONS OF THE EXTENDED FORTRAN IV-H COMPILER ARE NOW COVERED UNDER THIS CATALOG NO. THE BPM VERSION OPERATES AS A BACKGROUND PROCESSOR UNDER THE BPM MONITOR. THE BTM VERSION IS DESIGNED FOR ON-LINE USAGE, AND ALLOWS USERS TO INPUT, COMPILE, AND EXECUTE PROGRAMS WHILE CONTROLLING THE PROCESS FROM THEIR TERMINALS. BOTH VERSIONS READ FORTRAN IV-H SOURCE INPUT AND CONVERT IT TO OBJECT PROGRAMS TO BE LOADED BY THE LOADER. THE OPTION 'RT' ALLOWS USERS TO CREATE RE-ENTRANT OBJECT PROGRAMS THAT MAY BE RUN IN A REAL-TIME ENVIRONMENT.
- 705878 SIGMA 5/6/7 PRINT LABELED TAPE
AUTHOR: XEROX
ABSTRACT:
THE PRINT LABELED TAPE PROCESSOR (PLAB) ENABLES THE USER TO PRINT FILES FROM LABELED TAPE. THE OPTIONS ARE PROVIDED TO PRINT: ALL FILES, SPECIFIC FILES, ALL FILES AFTER A SPECIFIED FILE, AND ALL FILES BETWEEN AND INCLUDING A SPECIFIED STARTING AND A SPECIFIC ENDING FILE.
- 705879 SIGMA 5/6/7 CARD STORE/RETRIEVE (CSR)
AUTHOR: XEROX
ABSTRACT:
A UTILITY PROGRAM WHICH WILL STORE CARD IMAGES TO LABELED TAPE AND SEQUENCE, GANPUNCH OR UPDATE THESE FILES. WILL RUN UNDER BPM.
- 705888 SIGMA 5-9 XEROX ANS COBOL COMPILER
AUTHOR: XEROX CORPORATION
ABSTRACT:
XEROX ANS COBOL COMPILER IS A FULL IMPLEMENTATION (DOD SUBSET D) OF THE COBOL LANGUAGE AS DEFINED BY THE 1968 ANS COBOL STANDARD. THE MODULES DEFINED BY THE STANDARD AND IMPLEMENTED IN THIS COMPILER ARE: NUCLEUS, TABLE HANDLING, SEQUENT ACCESS, RANDOM ACCESS, SORT, REPORT, WRITER, SEGMENTATION AND LIBRARY. IN ADDITION, THE FOLLOWING FEATURES AND MODULES HAVE BEEN IMPLEMENTED FROM THE PROPOSED 1973 ANS STANDARD. IN NUCLEUS, INSPECT STRING, UNSTRING, ALL OF THE DEBUG MODULE AND LEVEL 1 OF THE INTER-PROGRAM COMMUNICATION MODULE (LINKAGE SECTION, CALL, USING, PROCEDURE DIVISION USING).
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, UTS AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
PROGRAMMING AIDS INCLUDE: ON-LINE OPERATIONS INCLUDING PROMPTING AND SOURCE PROGRAM EDIT FILE CREATING, AND AN ON-LINE DEBUGGER. ALSO, A BATCH DEBUG MODULE, DATA AND PROCEDURE MAPS, CROSS-REFERENCE LISTING AND SUB-COMPILATION. FILE ORGANIZATION MAY BE SEQUENTIAL, INDEXED (KEYED) OR RANDOM (DIRECT). THE SORTING FUNCTION IS PROVIDED BY XEROX SORT; COBOL IS UTILIZED WITH THE XEROX DATA MANAGEMENT SYSTEM (DMS). THE MASTER RELEASE TAPE ALSO CONTAINS THE COBOL ON-LINE DEBUG SYSTEM FOR USE UNDER CP-V ONLY. A MINIMUM OF 17K WORDS OF CORE ARE REQUIRED FOR THE COMPILATION OF USER PROGRAMS.
- 708101 SIGMA 6-9 CP-V BASIC
AUTHOR: XEROX
ABSTRACT:
BASIC, OPERATING UNDER XEROX MONITORS, PROVIDES FOR THE CONSTRUCTION OF PROGRAMS WRITTEN IN THE BASIC LANGUAGE, EDITING AND COMPILING OF SUCH PROGRAMS, AND COMPLETE RUN-TIME SUPPORT FOR THE EXECUTION OF SUCH PROGRAMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATION SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 708102 SIGMA 5-9 XEROX SORT AND MERGE
AUTHOR: XEROX CORPORATION
ABSTRACT:
THESE PROGRAMS PROVIDE THE USER WITH GENERALIZED FILE SORTING AND MERGING CAPABILITY. FILES MAY BE ANSI, XEROX MONITOR OR USER FORMATTED AND MAY BE FIXED OR VARIABLE LENGTH, BLOCKED OR UNBLOCKED. UP TO SIXTEEN KEY FIELDS CAN BE USED FOR SORTING AND MERGING IN ASCENDING AND/OR DESCENDING SEQUENCE. SORT CAN EFFICIENTLY UTILIZE TAPE, DISK OR A MIXTURE OF BOTH FOR STORAGE OF INTERMEDIATE WORK FILES. A REPLACEMENT SELECTION TOURNAMENT TECHNIQUE IS USED FOR SORTING. THE MERGING ALGORITHM (OF THE SORT) VARIES ACCORDING TO THE TYPE OF INTERMEDIATE STORAGE. IF ALL INTERMEDIATE STORAGE IS ASSIGNED TO RANDOM STORAGE, THE RANDOM TECHNIQUE WILL BE USED; OTHERWISE THE SEQUENTIAL TECHNIQUE IS INVOKED. THERE IS ALSO AVAILABLE A SORT PERFORMANCE JOB STREAM, ITS CATALOG NUMBER IS 708405.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM/UTS/CP-V OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. XEROX SORT AND MERGE OPERATE AS BACKGROUND BATCH PROCESSORS. SORT CAN OPERATE AS A STAND-ALONE PROCESSOR OR CAN BE LINKED TO FROM ANOTHER PROGRAM (SUCH AS A COBOL PROGRAM) OR CAN RUN CO-RESIDENT WITH COBOL PROGRAMS. MERGE OPERATES AS A STAND-ALONE PROCESSOR. SORT REQUIRES ABOUT 7K OF CORE PLUS WORK SPACE FOR EXECUTION; MERGE ABOUT 5K PLUS WORK SPACE.

- 706128 SIGMA 5/8/7 MULTIPLE TAPE COPY PROCESSOR
AUTHOR: XEROX
ABSTRACT:
A UTILITY PROGRAM WHICH CREATES MULTIPLE COPIES OF A LABELED OR UNLABELED TAPE, VERIFIES THE TAPE COPIES OR PERFORMS A VERIFY ONLY FUNCTION.
COMMENTS:
REQUIRES MINIMUM HARDWARE CONFIGURATION FOR A BPM OPERATING SYSTEM WITH 1-8 MAGNETIC TAPE UNITS.
- 706150 SIGMA 5/8/7 MONDUMP (COVER)
AUTHOR: XEROX
ABSTRACT:
MONDUMP IS THE ROUTINE WHICH ANALYZES A CRASH DUMP AND PRINTS AN INTERPRETED LISTING OF THAT DUMP. MONDUMP IS COMPRISED OF MDSYSTEM (THE SYSTEM PROCEDURES FOR MONDUMP) AND THE ELEMENT FILES MDSUPER, MDIFORMAT, MDSYMBOL, MDPSOREG, MDTRAPS, MDCCBS, MDOLAY, MDSNAP4, AND MDSNAP8. MONDUMP OPERATES EITHER ONLINE OR IN BATCH FOR BPM/BTH.
- 706206 SIGMA 5-9 BPH/BTH PCL (PERIPHERAL CONV. LANGUAGE)
AUTHOR: XEROX
ABSTRACT:
PERIPHERAL CONVERSION LANGUAGE (PCL) IS A UTILITY SUBSYSTEM PROVIDING FOR INFORMATION TRANSFER BETWEEN SYSTEM I/O AND FILE DEVICES.
COMMENTS:
THIS IS THE COVER FOR THE PCL INCLUDED WITH THE BPH/BTH SYSTEM. THE CATALOG NUMBERS 706207-706225 COMPRISE THE COMPLETE PROCESSOR.
- 706226 SIGMA 5-9 STAND-ALONE VOLUME INITIALIZER-VOLINIT
AUTHOR: XEROX CORPORATION
ABSTRACT:
PROVIDES A STAND-ALONE DISK INITIALIZATION FACILITY FOR PRIVATE VOLUMES OR PUBLIC DEVICES. THIS PROGRAM CAN BE USED TO INITIALIZE DISK PACKS FOR RBM, CP-V, OR OTHER SYSTEMS. VOLINIT IS EXECUTED WITH THE STAND-ALONE LOADER - CATALOG NUMBER 704142.
- 706247 SIGMA 5-9 TEST FILE GENERATOR (TGEN)
AUTHOR: XEROX
ABSTRACT:
TGEN WILL ENABLE THE USER TO CREATE TEST FILES WITH INPUT ACCEPTED FROM THE CARD READER (M:SI) OR FROM MAGNETIC TAPE OR RAD (M:EI) AND WITH OUTPUT GENERATED ON RAD OR MAGNETIC TAPE (M:EO). SPECIFIED FIELDS FROM THE INPUT CAN BE REDEFINED (I.E., PACKED DECIMAL CONVERTED TO FLOATING POINT, ETC.); INCREMENTED BY A GIVEN VALUE; TOTALED; SEQUENCE CHECKED; AND USED AS A PORTION OF A KEY IF A KEYED FILE IS TO BE GENERATED. THE USER MAY SET CRITERIA FOR SELECTION OF INPUT RECORDS TO BE PROCESSED. MULTIPLE OUTPUT RECORDS MAY BE PRODUCED FROM A SINGLE INPUT RECORD.
COMMENTS:
ALTHOUGH TGEN WAS WRITTEN TO FACILITATE THE GENERATION OF TEST FILES, IT COULD BE USED EFFECTIVELY FOR OTHER PURPOSES. EXAMPLES: USE AS A RECORD EDITING ABILITY FOR BATCH; USE TO EXTRACT CERTAIN FIELDS FROM AN EXISTING MASTER FILE TO GENERATE A SPECIAL PURPOSE FILE. DUE TO THE NUMBER OF BYTE STRING AND POSSIBLE DECIMAL OPERATIONS USED, PERFORMANCE MAY DETERIORATE IF RUN ON A SIGMA 5.
- 706259 SIGMA 5-9 RBM/BPM HANDLER FOR MOC'D'S
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE MOC'D HANDLER IS A RESIDENT FOREGROUND TASK TO BE USED BY FOREGROUND ASSEMBLY LANGUAGE PROGRAMS FOR COMMUNICATING WITH ANY DEVICE CONNECTED TO THE CPU THROUGH ANY OF THE XEROX MESSAGE ORIENTED COMMUNICATIONS DEVICES (CC32A, CC32B, CC11, 7601-7604). IT PROVIDES QUEUING OF I/O REQUESTS, DYNAMIC MEMORY ALLOCATION FOR DATA BUFFERS, TIME INTERVAL SCHEDULING OF USER'S ROUTINES, I/O WITHOUT WAIT-FOR-COMPLETE, SIMULTANEOUS SERVICE FOR MULTIPLE USERS. IT OPERATES UNDER EITHER RBM OR BPM.
COMMENTS:
LOADED IN THE RBM OR BPM SYSTEMS AS A RESIDENT FOREGROUND PROGRAM. PROGRAM SIZE IS 1200 WORDS PLUS A DATA BUFFER AREA WHICH IS INSTALLATION DEPENDENT AND WILL USUALLY BE ABOUT 500 TO 1500 WORDS. SOURCE LANGUAGE IS SIGMA 5-9 MACRO-SYMBOL. MODE OF OPERATION IS REENTRANT. A NUMBER OF PARAMETERS ARE INSTALLATION DEPENDENT AND THE HANDLER WILL PROBABLY HAVE TO BE RE-ASSEMBLED TO ADJUST THOSE PARAMETERS TO THE SPECIFIC SYSTEM CONFIGURATION.
- 706263 SIGMA 5-9 XEROX DISPLAY STATION PROCEDURAL HANDLER
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS HANDLER IS INTENDED FOR FOREGROUND USERS OF FORTRAN OR ASSEMBLY LANGUAGE, OPERATING UNDER EITHER SIGMA 5-9 BPM OR RBM OPERATING SYSTEM, TO COMMUNICATE WITH XEROX DISPLAY STATIONS CONNECTED TO CC32B'S. THIS HANDLER IS USED TOGETHER WITH THE MESSAGE-ORIENTED COMMUNICATIONS DEVICES (MOC'D) HANDLER, CATALOG NO. 706259, TO SUPPORT MULTIPLE FOREGROUND PROGRAMS COMMUNICATING WITH MULTIPLE DISPLAY STATIONS CONNECTED TO ONE OR MORE CC32B CONTROLLERS.
COMMENTS:
COMPUTER CONFIGURATION: SIGMA 5-9 COMPUTER, CC32B PROCEDURAL-ORIENTED COMMUNICATIONS CONTROLLER, XEROX DISPLAY STATION - MODEL BC100 OR BC200, ONE REAL-TIME CLOCK COUNTER AND TWO EXTERNAL INTERRUPTS WHOSE PRIORITY LEVELS ARE HIGHER THAN ANY OF THE USERS OF THE HANDLER (CLOCK AND EXTERNAL INTERRUPTS ARE USED BY MOC'D HANDLER).

- 706280 SIGMA 6/7/9 SYSTEM SAVE/RESTORE PROGRAM
AUTHOR: XEROX
ABSTRACT:
SYSTEM SAVE/RESTORE PROGRAM IS A STAND-ALONE UTILITY PROGRAM DESIGNED TO DUMP ENTIRE RAD OR DISK
PACK STORAGE DEVICES TO MAGNETIC TAPE(S) FOR RESTORATION AT A LATER TIME. RESTORATION MAY ONLY BE
ACCOMPLISHED TO AN IDENTICAL STORAGE UNIT.
COMMENTS:
INITIAL LOADING OF THE PROGRAM IS VIA THE DIAGNOSTIC PROGRAM LOADER CATALOG NO. 704356.
- 706295 SIGMA 8/9 MEMORY DIAGNOSTIC - COM18
AUTHOR: XEROX
ABSTRACT:
A SCALED DOWN VERSION OF COMET (706140), MEMORY DIAGNOSTIC. IT HAS BEEN MODIFIED TO FIT IN AN 8K AREA OF
CORE AND IS CAPABLE OF TESTING THE FIRST 8K (LESS LOC.0-X'140') OF A 18K MACHINE.
- 706296 SIGMA 5-9 BPM/BTH FAST SAVE
AUTHOR: XEROX
ABSTRACT:
PROVIDES THE BPM-BTH USER WITH A TAPE SPEED FILE SAVING CAPABILITY. PRODUCT IS DESIGNED TO REPLACE
FPURGE FILE SAVE OPTIONS.
COMMENTS:
PRODUCT WILL BE RELEASED UNDER 000 VERSION OF BPM-BTH.
- 706410 SIGMA 5-9 MAGNETIC TAPE LIBRARY LOADER
AUTHOR: XEROX
ABSTRACT:
THE MAG TAPE LIBRARY LOADER PROGRAM IS DESIGNED TO LOAD IN THE SIGMA 5-7 AND 8-9 MAG TAPE LIBRARY. IT
IS ALSO ACCESSED BY THE MAG TAPE CONTROL PROGRAM AS A SUBROUTINE. THE PROGRAM PROVIDES THE CAPABILITY
TO DETECT SEQUENCE,CHECKSUM AND MANY INPUT ERRORS. THE LOADER ALSO PROTECTS ITSELF FROM SELF
DESTRUCTION. IT MAY BE USED AS A SUBROUTINE TO LOAD ADDITIONAL PROGRAMS.
COMMENTS:
WHEN UPDATING THIS LOADER IN THE MAG TAPE LIBRARY, A MAG TAPE LIBRARY BIAS PROGRAM (DESCRIBED IN THE
DOCUMENTATION SECTION OF THE LISTING) IS TO BE INCLUDED WITH THE LOADER DECK. THIS BIAS PROGRAM SETS
THE RELOCATION BIAS FOR THE MAG TAPE LIBRARY CONTROL PROGRAM AND LEAVES THE RELOCATION BIAS FOR THE
DIAGNOSTIC PROGRAM MONITOR (DPM) AT LOCATION HEXADECIMAL 200.
- 706412 **UNDEFINED** TEXT
AUTHOR: XEROX CORPORATION
ABSTRACT:
TEXT IS AN ON-LINE WORD PROCESSING SYSTEM THAT PROVIDES THE CAPABILITY TO CREATE, EDIT AND PRINT
DOCUMENTS THROUGH REMOTE TERMINALS OPERATING UNDER CONTROL PROGRAM-FIVE (CP-V). THE TEXT COMMAND
LANGUAGE IS LOGICAL AND SIMPLE, AND IS ORIENTED TOWARDS THE NON-PROGRAMMER. SECRETARIES, TECHNICAL
WRITERS, AND OTHERS NOT FAMILIAR WITH COMPUTERS CAN LEARN TO USE TEXT IN A SHORT PERIOD OF TIME.
APPLICATIONS INCLUDE TECHNICAL SPECIFICATIONS, REFERENCE MANUALS, FORM LETTERS, AND PROPOSALS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN METASYMBOL.
TEXT RUNS AS A SHARED PROCESSOR UNDER CP-V. THE PROCEDURE AREA REQUIRES 13K OF MEMORY, AND DATA AREA
REQUIRES 2.5K WORDS. TEXT WILL OPERATE WITH 2741 TYPE TERMINALS OR TELETYPE COMPATIBLE TERMINALS.
- 706419 SIGMA 5-9 XEROX REPORT PROGRAM GENERATOR (RPG)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX REPORT PROGRAM GENERATOR (RPG) COMPILER OFFERS SIGMA 5-9 USERS A POWERFUL AND CONVENIENT
PROBLEM ORIENTED LANGUAGE FOR THE IMPLEMENTATION OF A WIDE VARIETY OF COMMERCIAL DATA PROCESSING
APPLICATIONS. RPG IS EASY TO USE AND REQUIRES NO KNOWLEDGE OF SIGMA 5-9 ASSEMBLY LANGUAGE. THE USER IS
PROVIDED WITH THE ABILITY TO SELECTIVELY EXECUTE SUBROUTINES WITHIN HIS PROGRAM. EXTERNAL SUBROUTINES
MAY ALSO BE INCLUDED AND SELECTIVELY EXECUTED. THE EXCPT CODE ALLOWS OUTPUT DURING TOTAL OR DETAIL
CALCULATIONS. CALCULATIONS RESUME WHERE INTERRUPTED. THE CHAIN CODE PERMITS ACCESSING OF DISK FILE
RECORDS DURING THE CALCULATION CYCLE. SPECIAL EDIT CODES AID REPORT FORMATTING. THE USER MAY ADD TO OR
UPDATE RECORDS ON KEYED FILES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH OR CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMMERCIAL PROCESSOR.
BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SIGMA 5-9 RPG, WITH A FEW EXCEPTIONS, IS COMPATIBLE WITH THE 1800, 1130, DOS AND OS RPG PROCESSORS. ANY
HARDWARE DIFFERENCES ARE DIAGNOSED FOR THE USER AT COMPILE TIME. XEROX RPG OPERATES AS A BACKGROUND
BATCH PROCESSOR ON THE MINIMUM SYSTEM CONFIGURATIONS FOR THE BPM, UTS AND CP-V OPERATING SYSTEMS ON ANY
SIGMA 5, 6, 7, 8 OR 9 COMPUTER. IT REQUIRES 12K WORDS OF CORE FOR COMPILATION OF USER PROGRAMS. USER
PROGRAMS WRITTEN IN THE RPG II LANGUAGE MAY NOT COMPILE ON THIS PROCESSOR DEPENDING ON THE LANGUAGE
FORMS USED.
- 706433 SIGMA 6/7/9 XEROX UTS/EASY
AUTHOR: XEROX
ABSTRACT:
EASY CONTAINS A SUBSET OF THE EXECUTIVE-LEVEL TERMINAL PROTOCOL AVAILABLE UNDER THE GE MARK II SYSTEM.
IT PROVIDES AN EASY TO LEARN AND SIMPLE INTERFACE BETWEEN UTS AND BASIC OR FLAG.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN SYMBOL. EASY OPERATES AS A COMMAND PROCESSOR UNDER UTS. IT REQUIRES FLAG AND
BASIC TO BE PRESENT.

- 706434 SIGMA 6-9 XEROX APL
AUTHOR: OX CORPORATION
ABSTRACT:
XEROX'S IMPLEMENTATION OF IVERSON'S IA PROGRAMMING LANGUAGE, A COMPATIBLE SUPERSET OF APL/3601.
COMMENTS:
NORMAL OPERATION IS AS AN ON-LINE PROCESSOR VIA AN APL (IBM 2741, DATEL 30, ECT.) TERMINAL. MAY ALSO BE OPERATED VIA MODEL 33 TELETYPE OR IN BATCH MODE USING MNEMONIC SUBSTITUTES FOR SPECIAL APL CHARACTERS.
- 706436 SIGMA 6-9 ON-LINE COMPUTER CENTER SUBSYSTEM CCS
AUTHOR: XEROX
ABSTRACT:
CCS IS AN INFORMATION MANAGEMENT SYSTEM WHICH PROVIDES EASILY ACCESSED AND MAINTAINED DATA ON ALL MAJOR PHASE OF COMPUTER CENTER UTILIZATION FOR THE CENTERS PERSONNEL, AS WELL AS ITS USERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATIONS PROGRAM (SYSTEM). BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. THIS SYSTEM IS AVAILABLE ON A CONTROLLED RELEASE BASIS. DISTRIBUTION BY THE SOFTWARE LIBRARY REQUIRES AN APPROVED FIELD REQUEST.
- 706443 SIGMA 5-9 COPY PROGRAM MAG TAPE TO DISK
AUTHOR: XEROX
ABSTRACT:
PROGRAM COPIES THE MAG TAPE LIBRARY FROM 9 TRACK MAG TAPE TO A DISK DRIVE. NOT FOR USE WITH RAD. AFTER COPYING, A VERIFY PASS IS MADE. THE LIBRARY LOADS AND EXECUTES FROM THEE DISK EXACTLY AS FROM THE MAG TAPE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL, XSYMBOL AND METASYMBOL. SAME RESTRICTIONS AS OPERATING THE MAG TAPE LIBRARY FROM TAPE.
- 706450 SIGMA 5-9 META-SYMBOL PROCEDURE DECK FOR SCU
AUTHOR: XEROX, M.T.C.
ABSTRACT:
THE PROCEDURE DECK FOR THE SYSTEM CONTROL UNIT (SCU) PROVIDES AN ASSEMBLER FACILITY FOR THE SCU PROGRAMMER THE FUNCTIONS AND FEATURES OF META-SYMBOL ARE THUS AVAILABLE TO THE SCU PROGRAMMER.
COMMENTS:
THE PROCEDURES ARE USED WITH META-SYMBOL AND THEREFORE REQUIRE A BPM OR UTS SYSTEM.
- 706459 SIGMA 5-9 XEROX ASSEMBLY PROGRAM (AP)
AUTHOR: XEROX CORPORATION
ABSTRACT:
XEROX ASSEMBLY PROGRAM (AP) IS A HIGH SPEED, LOW CORE ASSEMBLER WITH MOST OF THE FEATURES OF META-SYMBOL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RSM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP.
RELEASE B00 CONTAINS MAJOR ENHANCEMENTS TO NEARLY MATCH CAPABILITIES OF META-SYMBOL IN LESS CORE AND GREATER SPEED. THIS VERSION IS SLIGHTLY LARGER THAN AP-A01, BUT STILL RUNS IN MINIMUM RSM CONFIGURATION. AP-B00 SPEED IS THE SAME AS AP-A01.
- 706466 SIGMA 6/7/9 INTERACTIVE DATABASE PROCESSOR (IDP)
AUTHOR: XEROX CORPORATION
ABSTRACT:
IDP IS AN INTERACTIVE SHARED PROCESSOR WHICH PROVIDES A CONVENIENT AND POWERFUL TOOL FOR ACCESSING EXTENDED DATA MANAGEMENT SYSTEM (EDMS) DATABASES. IT PROVIDES BOTH QUERY AND REPORT GENERATION CAPABILITIES. THE IDP LANGUAGE CONSISTS OF A SET OF SIMPLE BUT POWERFUL COMMANDS WHICH RESULT IN THE EFFICIENT RETRIEVAL OF DATA AND FORMATTING OF REPORTS. CAPABILITY IS ALSO PROVIDED FOR THE SORTING OF REPORTS AND THE ACCUMULATION OF COUNTS AND TOTALS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
IDP IS AN ON-LINE PROCESSOR. NO PROVISIONS HAVE BEEN MADE FOR BATCH PROCESSING. IDP QUERIES A SUBSCHEMA BUILT WITH A FILE DEFINITION PROCESSOR (FDP) WITH ALL TECHNICAL BULLETINS TO DATE. SUCH AN FDP IS INCLUDED IN THIS RELEASE TAPE. THE DATA BASE MANAGER (DBM) LIBRARIES MUST BE UPDATED.
- 706465 SIGMA 6-9/550/560 SORT PERFORMANCE JOB STREAM FOR CP-V
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS IS A SELF CONTAINED SERIES OF 13 JOBS THAT CREATES A FILE TO BE USED BY SIX RANDOM SORTS AND THEN BY SIX SEQUENTIAL SORTS. THIS JOB STREAM ALLONS USERS TO ACQUAINT THEMSELVES WITH THE RANDOM SORT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS GROUP OF JOB DECKS. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN JCL.
THIS PRODUCT REFERENCES 706102-E00.

708498 SIGMA 8-9/550/560 EDMS RESTRUCTURING PROCESSOR (DMSREST)

AUTHOR:XEROX CORPORATION

ABSTRACT:

DMSREST IS A SELF-MODIFYING SYSTEM WHICH PROVIDES A SOLUTION TO THE PROBLEM OF DATABASE SPACE ALLOCATION BY PERMITTING A USER TO EXPAND, OR CONTRACT, AN EXISTING DATABASE AS HIS REQUIREMENTS CHANGE. THROUGH THIS MECHANISM, A DATABASE MAY BE BUILT WITH MINOR CONCERN FOR EXPANSION. ONLY THAT AMOUNT OF SPACE NEEDED IN THE SHORT TERM MUST BE ALLOCATED. WHEN THE DATABASE FILLS UP, IT MAY AUTOMATICALLY BE EXPANDED BY DMSREST. THE PROCESSOR WILL ADDITIONALLY PERMIT CHANGES TO SOME ACCESS MONITORING AND CONTROL ATTRIBUTES OF THE EXISTING DATABASE.

COMMENTS:

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

707000 SIGMA 8-9/550/560 CONTROL PROGRAM FIVE CP-V

AUTHOR:XEROX CORPORATION

ABSTRACT:

CP-V IS A MULTI-USE O/S THAT PERMITS ON-LINE T.S., MULTI-PROGRAMMED B.P., REAL-TIME PROCESSING, REMOTE PROCESSING (RBT, IRBT, 2780, CP-V TO CP-V) AND TERM JOB ENTRY. IT HAS FILE MGT FACILITIES FOR SEQ, KEY INDEXED, AND DIRECT (RANDOM) FILES ON RAD, DISK OR MAG TAPE. FILES ARE PROTECTED BY PASSWORD AND/OR ACCESS DESIGNATION. CP-V IS INTEGRATED SO THAT FILES CREATED BY PROGRAMS RUNNING ON-LINE MAY BE ACCESSED BY THE SAME OR OTHER PROGRAMS RUNNING IN BATCH. SYMBIONT SPOOLING BUFFERS ON RAD OR PACK THE I/O PERIPHERAL CARD EQUIPMENT, PRINTERS, RBTS, AND IRBTS. TERMINAL USERS MAY CREATE, MODIFY, COMPILE, EXECUTE, AND SYMBOLICALLY DEBUG PROGRAMS ON-LINE AND MAY SUBMIT TASKS TO BATCH. ANY PROGRAM MAY BE RUN IN EITHER ON-LINE, BATCH OR GHOST MODE. MEMORY MAPPING ALLOWS REENTRANT PROCESSORS TO BE SHARED AMONG ON-LINE AND BATCH USERS. SHARED PROCESSORS MAY BE EASILY ADDED. MAP ACCESS CONTROLS AND WRITE LOCKS PROTECT THE SYSTEM FROM THE USERS AND THE USER FROM ONE ANOTHER. THROUGH THE MAP, THE FULL VIRTUAL ADDRESS RANGE IS ACCESSIBLE FOR THE EXECUTIVE, I/O BUFFERING, SHARED LIB AND PROCESSORS, AND USER PROGRAMS ON MACHINES WITH LESS THAN MAX MEMORY AND PROVIDES FOR MULTIPLE USER PROGRAMS IN CORE. MULTI-LEVEL QUEUE SCHEDULING FOR EXECUTION AND SWAPPING ASSURES RAPID RESPONSE AND OVERLAP OF COMPUTATION WITH FILE AND SWAP I/O. INSTALLATION MGT FACILITIES INCLUDE PERFORMANCE INSTRUMENTATION AND CONTROLS FOR TUNING THE SYSTEM TO MOST EFFICIENT OPERATION. CONTINUOUS OPERATION IS MAINTAINED BY AUTOMATIC DEVICE ERROR DETECTION, REPORTING, AND RECOVERY. SYSTEM RECOVERY INCLUDES AUTO FAILURE ANALYSIS AND MAINTAINS INTEGRITY OF USER FILES.

COMMENTS:

CP-V IS DELIVERED IN A PACKAGE WHICH INCLUDES:

1. 2 SYSTEMS TAPES (-86) FOR A STD CONFIG, ONE FOR 7272/7270, THE OTHER FOR 7260/7275 SWAP DEVICE.
2. A FULL SET OF USER AND OPERATIONS MANUALS FOR THE SYSTEM AND ITS PROCESSORS.
3. A TWO VOLUME TAPE SET (-28/46/86) CONTAINING SOURCE AND BINARY FILES FOR ALL CP-V MODULES, ALL STANDARD RELEASE LANGUAGE PROCESSORS AND THEIR LIBRARIES, AND A SET OF NON-STANDARD UTILITY PROGRAMS NEEDED TO GENERATE A CP-V OPERATING SYSTEM.
4. A COMPRESSED LISTING TAPE SET (-56), IN THREE VOLUMES, FOR ALL CP-V MODULES.
5. A TAPE (-76) CONTAINING A SET OF TEST CASES TO EXERCISE THE SYSTEM AND VERIFY PROPER OPERATIONS.

708000 **UNDEFINED** CONTROL PROGRAM FOR REAL-TIME (CP-R)

AUTHOR:XEROX CORPORATION

ABSTRACT:

THE XEROX CONTROL PROGRAM FOR REAL-TIME (CP-R) IS A MULTI-USE OPERATING SYSTEM WITH MULTI-PROGRAMMING REAL-TIME FOREGROUND SUPPORT CONCURRENT WITH REMOTE TERMINAL OPERATIONS AND BATCH BACKGROUND PROCESSING.

CP-R IS A RAD/DISK-ORIENTED OPERATING SYSTEM THAT UTILIZES THE MEMORY MAP FEATURE OF XEROX 32-BIT COMPUTERS TO PROVIDE AN OPTIMUM MEMORY MANAGEMENT SCHEME FOR THE REAL-TIME AND BATCH USER.

FOUR MODES OF PROCESSING ARE PROVIDED:

- MULTIPLE PRIMARY REAL-TIME TASKS (RESIDENT, UNMAPPED, HARDWARE SCHEDULED)
- MULTIPLE SECONDARY REAL-TIME TASKS (MAPPED, SOFTWARE PRIORITY SCHEDULED, ROLLED IN/OUT ON DEMAND)
- MULTIPLE ON-LINE REMOTE TERMINAL OPERATIONS
- BACKGROUND BATCH PROCESSING (FROM A SINGLE, SERIAL BATCH STREAM).

CP-R MONITOR SERVICES OPERATE EITHER MAPPED OR UNMAPPED, DEPENDING ON THE MODE OF THE CALLING TASK. ALL CP-R SERVICES ARE COMPLETELY INTERRUPT REENTRANT WITH A RESPONSE TIME OF ABOUT 100 MICROSECONDS, AND ALL SERVICES ARE CALLABLE FROM EITHER PRIMARY OR SECONDARY TASKS. BACKGROUND IS LIMITED TO NON-PRIVILEGED SERVICES. CARD READER AND LINE PRINTER SYMBIONT SPOOLING TO ROTATING MEMORY IS PROVIDED FOR BATCH OPERATIONS. A FILE MANAGEMENT SYSTEM, WITH BOTH TEMPORARY AND PERMANENT FILES, OFFERS A CHOICE OF RANDOM OR SEQUENTIAL ACCESS. FILE ACCESSES ARE VERY FAST, SINCE ALL FILE POINTERS ARE CORE RESIDENT ON OPEN FILES. EXTENSIVE UTILITY SERVICES ARE AVAILABLE UNDER CP-R. ERROR LOGGING AND OTHER RELIABILITY FEATURES ARE PROVIDED. CP-R IS BASED ON THE SUCCESSFUL RBM OPERATING SYSTEM.

COMMENTS:

THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP.

CP-R IS WRITTEN IN AP AND IS DELIVERED IN THE FOLLOWING PACKAGE:

- A BINARY TAPE (-85/86) CAPABLE OF SYSGENING ON ANY EQUIPMENT CONFIGURATION.
- A BINARY TAPE INCLUDES AP, SYSTEM CPR, AND A TEST PROGRAM (-78).
- A COMPRESSED TAPE (-45/46) INCLUDING ALL CP-R MODULES AND MAY BE ASSEMBLED WITH AP.
- A DESCRIPTION OF CP-R (-11) AND HOW TO TAILOR IT TO USER'S SPECIFIC NEEDS.
- A FULL SET OF USER, REFERENCE, AND OPERATION MANUALS.

880830 SIGMA 5-9/550/560 UNLABELED SOFTWARE SUPPORT TAPE (SST)

AUTHOR:XEROX CORPORATION

ABSTRACT:

THE SST TAPE CONTAINS MAINTENANCE RELEASES OF 16 AND 32 BIT RBM, CP-R AND THEIR ASSOCIATED LANGUAGE PROCESSORS. FOR EACH SUCH PRODUCT, THERE IS A CORRESPONDING INFORMATION FILE THAT CONTAINS A LIST OF ALL SIDRS CLOSED SUBSEQUENT TO THE LAST MAJOR RELEASE AS WELL AS OTHER INFORMATION PERTINENT TO THAT PRODUCT. WHERE APPROPRIATE, THERE IS A TEST CASE THAT CAN BE USED TO INSURE A SUCCESSFUL LOAD. PRODUCTS WHOSE SOURCE IS INCLUDED AS AN ELEMENT IN THE MAJOR RELEASE WILL HAVE AN ADDITIONAL FILE CONTAINING SI UPDATES.

THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTWARE SUPPORT. THE SST DISTRIBUTION IS NORMALLY LIMITED TO XEROX FIELD ENGINEERING OFFICES.

880830 CONTINUED ON FOLLOWING PAGE

880830

UNLABELED SOFTWARE SUPPORT TAPE (SST)

(CONTINUED)

COMMENTS:

THIS PROGRAM WILL RUN UNDER RBM AND CP-R OPERATING SYSTEMS. PROGRAM TYPE IS MISC.
THIS PRODUCT IS CURRENTLY PART OF THE 16-BIT SST. THE SST CONTAINS MONITOR MODULES FOR 32-BIT RBM AND
CP-R AS WELL AS SOME OF THEIR LANGUAGE PROCESSORS.

880832

SIGMA 5-9/550/560

LABELED SOFTWARE SUPPORT TAPE (SST)

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE SST TAPE CONTAINS PATCHES TO BPM/BTM AND CP-V AS WELL AS MAINTENANCE RELEASES OF SOME LANGUAGE
PROCESSORS. THESE PATCHES MAY BE IN THE FORM OF GENMDS, SI UPDATES, OR PATCH CORRECTIONS AS NECESSARY.
ADDITIONAL FILES MAY BE MADE AVAILABLE AS NEEDED IN ORDER TO PROVIDE ADEQUATE SYSTEM SUPPORT.
THE SST TAPE IS MAINTAINED BY FIELD ENGINEERING SOFTWARE SUPPORT. THE SST DISTRIBUTION IS LIMITED TO
XEROX FIELD ENGINEERING OFFICES.

COMMENTS:

THIS PROGRAM WILL RUN UNDER BPM/BTM AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS MISC.
THE FILE INFO.SNIX CONTAINS INFORMATION RELATIVE TO THE TAPES CONTENTS AND UPDATES. THE FILE FILES.SNIX
CONTAINS NAMES OF ALL FILES ON THE SST AS WELL AS A BRIEF DESCRIPTION OF EACH.

- 704060 SIGMA 5/7 CALCOMP PLOTTING SUBROUTINE (PLOT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF DRIVING THE CALCOMP PLOTTER FROM ITS CURRENT PEN POSITION TO THE SPECIFIED INPUT POSITION.
- 704081 SIGMA 5/7 CALCOMP PLOTTER LABELLING SUBR (LABEL)
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE IS USED TO ANNOTATE PLOTS ON THE CALCOMP PLOTTER. IT HAS 26 ALPHABETIC, 10 NUMERIC AND 10 SPECIAL CHARACTERS. IT ALLOWS PLACING OF THE ANNOTATION AT ANY POSITION ON THE PLOT AND AT ANY ROTATION. IT ALLOWS PLOTTING OF CHARACTERS OF ANY SIZE FROM .07 INCHES UP.
- 704341 SIGMA 5/7 PURDUE SPECIAL ANALOG INPUT SUBSYSTEM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL DEMONSTRATE THE CAPABILITIES OF THE PURDUE SIGMA 5 SPECIAL ANALOG INPUT SUBSYSTEM FOR MASS SPECTROMETER ANALYSIS.
COMMENTS:
REQUIRES XDS SIGMA 5/7 STAND-ALONE LOADER WITH I/O HANDLERS CAT. NO. 704142-C FOR LOADING AND OPERATOR COMMUNICATION
- 704448 SIGMA 5/7 CHECKOUT AID-CHECKER
AUTHOR: XEROX
ABSTRACT:
CHECKER ALLOWS A USER TO DEFINE A DEBUGGING ENVIRONMENT FOR HIS PROGRAM TESTING WHICH WILL FACILITATE FAST AND EFFICIENT CHECKOUT. THERE ARE FOUR FUNCTIONAL AREAS IN CHECKER, THEY ARE AS FOLLOWS; 1) CORRECTIONS 2) DUMPS 3) SNAPSHOTS 4) TRACE BRANCH
COMMENTS:
THE APPROXIMATE SIZE OF CHECKER IS 900 WORDS. CHECKER WILL OPERATE WITH THE FREE STANDING I/O PACKAGE, THE BASIC CONTROL MONITOR, AND THE BATCH PROCESSING MONITOR.
- 704598 SIGMA 5/7 POWER FAIL-SAFE UNDER BCM
AUTHOR: XEROX
ABSTRACT:
POWER FAIL-SAFE RESPONDS TO THE POWER OFF, POWER-ON INTERRUPTS AND IS DESIGNED TO RECOVER THE MONITOR SHOULD A POWER FAILURE OCCUR. WHEN POWER IS TURNED OFF, THE CURRENT REGISTER BLOCK IS SAVED, ACTIVE I/O IS HALTED AND A BRANCH TO USER CODE IS MADE (IF PRESENT). WHEN POWER RETURNS, MESSAGES ARE TYPED INFORMING THE OPERATOR OF THE POWER FAILURE AND THE STATE OF THE DEVICES. THE WRITE LOCKS ARE RESTORED. RECOVERY FOR THE DISC IS INITIATED. A BRANCH TO USER CODE IS MADE (IF PRESENT). THE REGISTERS AND PROGRAM STATUS DOUBLEWORD ARE RESTORED.
- 704985 SIGMA 7 MARTIN-CAGE SIGMA 7 CPU EXERCISER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE, WITHIN A 50 MILLISECOND TIME INTERVAL, THE NON-PRIVILEGED SIGMA 7 INSTRUCTION SET.
COMMENTS:
THE PROGRAM IS AVAILABLE, UNDER THE BATCH MONITOR, AS A SUBROUTINE CALLED AT LOAD TIME FROM BULK SECONDARY STORAGE. CORE RESIDENCY IS 2K DECIMAL WORDS. CONFIGURATION REQUIRED IS ANY SIGMA 7.
- 705280 SIGMA 5/7 REAL-TIME BATCH MONITOR--1 (RBM-1)
AUTHOR: XEROX
ABSTRACT:
THIS SYSTEM IS A RAD-ORIENTED MODIFICATION OF THE SIGMA 5/7 BCM (BASIC CONTROL MONITOR), CATALOG NO. 704144. IT PROVIDES THE SAME SERVICES AS BCM, HOWEVER, IT CREATES AND OPERATES IN A RAD-ORIENTED ENVIRONMENT. SEE PAL DESCRIPTION OF BCM(704144) FOR DETAILS.
COMMENTS:
CONFIGURATION: SIGMA 5/7 BCM CONFIGURATION PLUS ANY MODEL RAD. MINIMUM 16K MEMORY. THIS COVER CATALOG COVERS 705281, 705283, 705287. THE SOURCE FOR CN 705286 AND 705287 IS AVAILABLE ONLY BY UPDATING ASSEMBLY PARAMETERS CONTAINED IN 704137 (BCM RELOCATING LOADER). SEE PAL COMMENTS UNDER 704137 FOR DETAILS.
- 705298 SIGMA 5/7 FORTRAN IV COMPILER DIAGNOSTICS DEMO
AUTHOR: XEROX
ABSTRACT:
THIS IS A FORTRAN IV SOURCE DECK THAT CONTAINS MANY DIFFERENT KINDS OF ERRORS THAT CAN BE DETECTED BY THE COMPILER.
COMMENTS:
NSS MEMO 69-24-03 INCLUDES A LISTING AND DESCRIPTION OF THIS PROGRAM, AS COMPILED BY THE SIGMA 5/7 FORTRAN IV COMPILER.
- 705388 SIGMA 5/7 MAG TAPE COPY AND VERIFY (BPM) UTILITY
AUTHOR: XEROX CORPORATION
ABSTRACT:
PROVIDES A MEANS OF COPYING AND VERIFYING ALL TYPES OF MAGNETIC TAPES, INCLUDING THE BPM SYSTEM TAPES. IT WILL COPY, VERIFY, COPY AND VERIFY LABELED OR UNLABELED MAGNETIC TAPE OR A COMBINATION THEREOF. IF LABELED TAPE IS BEING HANDLED, EACH LABEL WILL BE PRINTED OUT.

- 705387 SIGMA 7 PAM-PDM + ADC ACCEPTANCE TESTS FOR LTV
AUTHOR: XEROX
ABSTRACT:
THESE PROGRAMS DEMONSTRATE THE PROPER OPERATION OF THE PAM-PDM AND ADC SUBSYSTEMS OF THE LTV FLIGHT TEST DATA PROCESSING SYSTEM.
COMMENTS:
THESE PROGRAMS UTILIZE THE BPM IN THE NON-RESIDENT FOREGROUND MODE.
- 705380 SIGMA 5/7 LINE PRINTER PLOT SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS A FORTRAN IV-H SUBROUTINE USED TO PLOT NUMERIC INFORMATION ON A STANDARD LINE PRINTER. A PLOT OF ONE OR MORE SETS OF POINTS MAY BE OBTAINED ON A RECTANGULAR COORDINATE SYSTEM WITH THIS PROGRAM.
COMMENTS:
A COMPLETE AND A BRIEF WRITE-UP ON :LP PLOT: MAY BE OBTAINED FROM THE LIBRARY PROGRAM DESCRIPTION (705380-11).
- 705391 SIGMA 5/7 FORTRAN IV RUN-TIME DIAGNOSTIC DEMO
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES SOME OF THE RUN-TIME DIAGNOSTICS GENERATED BY SIGMA 5/7 FORTRAN IV. IT CONSISTS OF A SOURCE PROGRAM AND TWO DATA CARDS THAT ARE READ BY THE PROGRAM. THERE ARE NO COMPILE TIME ERRORS.
COMMENTS:
THE PROGRAM CAN BE BROKEN INTO THIRTEEN INDEPENDENT SECTIONS FOR RUNNING ON OTHER FORTRAN SYSTEMS. FOR FURTHER INFORMATION REFER TO THE PRINTED DESCRIPTION.
- 705423 SIGMA 5/7 MAG TAPE/RAD COPY PROGRAM - UTILITY
AUTHOR: XEROX
ABSTRACT:
THE COPY PROGRAM WILL COPY THE CONTENTS OF THE INPUT TAPE OR RAD ONTO THE SPECIFIED OUTPUT TAPE OR RAD. COPY MAY BE USED TO REFORMAT A 9 OR 7 TRACK FREE FORM TAPE INTO A LABELED TAPE OR RAD FILE; OR TO EXTRACT THE DATA PORTIONS OF LABEL TAPE OR RAD FILES AND PRODUCE A FREE FORM 9 OR 7 TRACK TAPE. COPY ALSO HAS THE CAPABILITY TO COPY ONLY SPECIFIC RECORDS FROM THE INPUT FILES. COPY WILL NOT COMPACT INPUT LABELED FILES INTO ONE OUTPUT LABELED FILE (I.E., A NAME PARAMETER CANNOT APPEAR IN BOTH THE INPUT AND OUTPUT SPECIFICATIONS ON A REQUEST). WHEN COPYING A FREE FORM TAPE, COPY WILL TERMINATE UPON READING TWO CONSECUTIVE EOF'S IF THIS CONDITION OCCURS BEFORE THE NUMBER OF USER SPECIFIED FILES HAVE BEEN PROCESSED.
COMMENTS:
USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.
- 705425 SIGMA 5/7 POSITION TAPE PROGRAM (POST)
AUTHOR: XEROX
ABSTRACT:
THE POSITION TAPE PROGRAM (POST) WILL POSITION LABELED AND UNLABELED 7-TRACK AND 9-TRACK MAGNETIC TAPES TO USER DESIGNATED LOCATIONS UNDER THE TAPE DRIVE READ/WRITE HEADS. IF THE REWIND OPTION (REW) IS INDICATED, BOTH LABELED AND UNLABELED TAPES ARE REMOUND TO LOAD POINT AND ALL FURTHER POSITIONING IS RELATIVE TO LOAD POINT. OTHERWISE, POSITIONING IS RELATIVE TO THE POSITION OF THE TAPE AT EXECUTION. LABELED TAPES MAY BE POSITIONED TO THE LABEL, THE BEGINNING OF FILE OR THE END OF FILE. UNLABELED TAPES MAY BE POSITIONED A DESIGNATED NUMBER OF FILE MARKS FORWARD OR REVERSE AND THEN TO THE BEGINNING OR END OF THE CURRENT FILE. BOTH LABELED AND UNLABELED TAPES MAY BE POSITIONED FORWARD OR REVERSE A DESIGNATED NUMBER OF PHYSICAL RECORDS.
COMMENTS:
USAGE DETAILS MAY BE OBTAINED FROM THE DESCRIPTION PRINTED.
- 705426 SIGMA 5/7 DUMP/LIST PROGRAM - UTILITY
AUTHOR: XEROX
ABSTRACT:
THE DUMP OPTION WILL DUMP IN HEXADECIMAL OR EBCDIC SELECTED WORDS OF SEQUENTIAL RECORDS OF RAD FILES, LABELED AND UNLABELED 7 AND 9-TRACK MAGNETIC TAPES. ADDITIONALLY, FOR TAPES, DUMP WILL ATTEMPT TO PROCESS :/O ERROR X'41' (IRRECOVERABLE READ ERROR) AND TO DETERMINE UNKNOWN ATTRIBUTES SUCH AS CORRECT TAPE DRIVE AND FOR 7-TRACK TAPES, THE CORRECT DENSITY AND DATA MODE. THIS EFFORT IS ACCOMPLISHED WITH THE ASSISTANCE OF THE OPERATOR VIA THE TYPEWRITER. UPON THE ESTABLISHMENT OF THE CORRECT ATTRIBUTES IF NECESSARY, DUMP WILL PROCEED TO PERFORM THE SELECTED DUMP, INCLUDING IN THE LO DEVICE OUTPUT, ATTRIBUTE INFORMATION AND WITH EACH DUMPED RECORD, A FILE AND RECORD COUNT AND THE NUMBER OF WORDS IN THE RECORD. A SELECTED NUMBER OF SEQUENTIAL FILES MAY BE DUMPED. INCLUDED IN DUMP IS A LINE SPACING OPTION AND WORD COUNT IN THE MARGIN OF THE OUTPUT. THE LIST OPTION WILL DEBLOCK TO USER FORMAT SPECIFICATIONS AND LIST IN EBCDIC SELECTED WORDS OF SEQUENTIAL RECORDS OF RAD FILES LABELED AND UNLABELED 7 AND 9-TRACK MAGNETIC TAPES. ADDITIONALLY, FOR TAPES, LIST WILL ATTEMPT TO PROCESS :/O ERROR X'41' (IRRECOVERABLE READ ERROR) AND TO DETERMINE UNKNOWN ATTRIBUTES SUCH AS CORRECT TAPE DRIVE AND FOR 7-TRACK TAPES, THE CORRECT DENSITY AND MODE. THIS EFFORT IS ACCOMPLISHED WITH THE ASSISTANCE OF THE OPERATOR VIA THE TYPEWRITER. LIST WILL OUTPUT ON THE LO DEVICE ATTRIBUTE INFORMATION, AND WITH EACH LISTED RECORD, A FILE AND RECORD COUNT AND THE NUMBER OF WORDS IN THE RECORD. A SELECTED NUMBER OF SEQUENTIAL FILES MAY BE LISTED. INCLUDED IN LIST IS A LINE SPACING OPTION.

- 705531 SIGMA 5/7 GEM-1 GENERALIZED EVENT MEASUREMENT PROC
AUTHOR: XDS, R PURDY
ABSTRACT:
THE GEM PROCESSOR IS A GENERALIZED DATA GATHERING SCHEME DESIGNED TO ACCUMULATE AND DISPLAY SIGMA 5/7 SOFTWARE PERFORMANCE STATISTICS. IT PROVIDES THE CAPABILITY OF PERFORMING ANY TYPE OF SOFTWARE ANALYSIS - SIMPLE OR COMPLEX. SEE THE PRINTED DESCRIPTION FOR FULL DETAILS.
COMMENTS:
GEM OPERATES UNDER BPM, BTM, UTS ENVIRONMENT.
- 705655 SIGMA 5/7 SSS-SAS PCM TELEMETRY COMPILER
AUTHOR: XEROX
ABSTRACT:
THE SSS-SAS PCM TELEMETRY COMPILER (STMC) IS A BACKGROUND PROGRAM OPERATING ON THE XDS SIGMA 5/7 UNDER THE BATCH PROCESSING MONITOR. STMC ALLOWS AN ENGINEER TO DESCRIBE A PCM FORMAT IN SYMBOLIC FORM WHICH WILL BE USED TO CONTROL DATA ACQUISITION AND DATA RETRIEVAL.
COMMENTS:
STMC REQUIRES ABPM SYSTEM WITH ADEQUATE RAD STORAGE FOR THE TABLES IT GENERATE. IT ALSO REQUIRES THE SSS-SAS PCM TELEMETRY FRONT END AND TWO MAGNETIC TAPES.
- 705656 SIGMA 5/7 PCM DATA ACQUISITION PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PCM DATA ACQUISITION PROGRAM ACQUIRES DATA FROM THE PCM FRONT END AND OUTPUTS IT TO MAGNETIC TAPE. THE ACQUISITION IS CONTROLLED BY INFORMATION GENERATED BY THE PCM TELEMETRY COMPILER.
COMMENTS:
A BPM CONFIGURATION WITH TWO MAGNETIC TAPES AND THE PCM FRONT END IS REQUIRED.
- 705657 SIGMA 5/7 7530/7531 PLOTTING PACKAGE
AUTHOR: XEROX
ABSTRACT:
ENTRY POINTS FOR SYMBOL PROGRAMS ARE PROVIDED FOR MAXIMUM EFFICIENCY AND FLEXIBILITY. OTHER ENTRY POINTS WHICH ARE COMPATIBLE WITH CALCOMP SOFTWARE, ARE PROVIDED FOR XDS FORTRAN IV AND COBOL PROGRAMS. THIS GIVES SYMBOL, XDS FORTRAN IV, AND COBOL PROGRAMS THE ABILITY TO DRAW LINES, MARK POINTS (SCALED OR NOT), AND DRAW CHARACTERS.
COMMENTS:
SPECIAL CHARACTERS MAY BE ADDED TO THE GENERAL CHARACTER GENERATOR BY CODING A PATTERN AND REASSEMBLING THE :CHAR: SUBROUTINE.
- 705658 SIGMA 5/7 DEBUG ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE ENABLES THE OPERATOR, VIA THE KEYBOARD PRINTER, TO DISPLAY AND/OR ENTER DATA INTO MEMORY LOCATIONS, TO SEARCH MEMORY WITHIN DEFINED LIMITS FOR KNOWN DATA, TO ANALYZE AND EXECUTE INSTRUCTIONS AT ANY MEMORY LOCATION, TO PATCH MEMORY FROM THE CARD READER, AND TO TRACE A PATH OF TRANSFER CONTROL.
COMMENTS:
AT LOAD TIME, PROGRAM RELOCATES INTO LAST 348 DEC. LOCATIONS.
- 705669 SIGMA 5/7 DATA RETRIEVAL PACKAGE (DARP)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM FUNCTIONS AS A FORTRAN-CALLABLE SUBROUTINE. IT PROVIDES A METHOD OF DATA RETRIEVAL FROM TAPES GENERATED BY THE ACQUISITION PROGRAM. TWO ENTRY POINTS ARE PROVIDED: 1)SETUP 2)RETRIEVE. A SET OF UP TO 40 MEASUREMENTS MAY BE SPECIFIED IN THE CALL TO 'SETUP'. 'SETUP' THEN INITIALIZES RETRIEVE. A SUBSET OF THE MEASUREMENTS INCLUDED IN 'SETUP' IS THEN SPECIFIED IN 'RETRIEVE' AS WELL AS A BUFFER AREA AND TIME SLICE. MEASUREMENTS QUALIFYING WITHIN THE TIME SLICE ARE THEN PLACED IN THE USER'S BUFFER AREA BY THE SUBROUTINE.
COMMENTS:
THE PROGRAM, INCLUDING INTERNAL BUFFERS OCCUPIES APPROXIMATELY 3K OF CORE AND OPERATES UNDER BPM.
- 705670 SIGMA 5 WESTINGHOUSE HYBRID EXECUTIVE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE THE USER CONTROL OF THE HYBRID SYSTEM. THE SUBROUTINES ARE DESIGNED SO THAT THEY MAY BE CALLED FROM XDS FORTRAN IV PROGRAMS UNDER BPM. THEY EXPECT A STANDARD XDS FORTRAN IV CALLING SEQUENCE.
COMMENTS:
THE HARDWARE REQUIREMENTS OF THIS SYSTEM ARE A 24K SIGMA 5 CONFIGURED TO RUN BPM AND A SPECIAL HYBRID INTERFACE WHICH CONNECTS THE SIGMA 5 TO TWO ADI AD/4 ANALOG COMPUTERS.
- 705689 SIGMA 5/7 SIGMA ACCOUNTING SYSTEM SUMMARY PROC.
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE SIGMA ACCOUNTING SYSTEM PROCESSOR IS A PROGRAM DESIGNED TO EXECUTE AS A BACKGROUND PROCESSOR UNDER CONTROL OF THE BATCH PROCESSING MONITOR (BPM) FOR SIGMA 5/7. THE PURPOSE OF THIS PROCESSOR IS TO ACCESS THE BPM SYSTEM ACCOUNTING FILE (:LOG) AND GENERATE AN ORDERED LISTING OF BPM ACCOUNTING DATA. THE PROCESSOR IS WRITTEN ENTIRELY IN XDS META-SYMBOL AND UTILIZES THE STANDARD BPM PROCEDURE CALLS FOR

705689 CONTINUED ON FOLLOWING PAGE

- 705689 SIGMA ACCOUNTING SYSTEM SUMMARY PROC. (CONTINUED)
MONITOR SERVICES. THE PROCESSOR CODE IS CONTAINED IN ONE CONTIGUOUS SEGMENT; THE BACKGROUND CORE RESIDENCY REQUIREMENT IS APPROXIMATELY 1857 (DECIMAL) WORDS OF MEMORY. THIS FIGURE INCLUDES ALL NECESSARY DATA CONTROL BLOCKS AND RECORD BUFFER SPACE REQUIREMENTS.
COMMENTS:
THE PROCESSOR IS ASSEMBLED BY XDS META-SYMBOL INTO A RELOCATABLE OBJECT MODULE (ROM). THIS ROM IS THEN PROCESSED BY THE BPM OVERLAY LOADER TO PRODUCE THE EXECUTABLE LOAD MODULE. TYPICALLY THIS LOAD MODULE IS SAVED UNDER THE SYSTEM ACCOUNT (:SYS) SO IT MAY BE CALLED AS A SYSTEM PROCESSOR; FOR EXAMPLE; HLG. THE PROCESSOR READS BPM ACCOUNTING RECORD INPUT VIA THE F:LOO DCB AND PRODUCES AN ORDERED ACCOUNTING SUMMARY LISTING VIA H:LO. ERROR COMMENTARY IS DISPLAYED VIA THE H:DC AND H:LO DCBS DEFAULT ASSIGNMENT OF THE INPUT DCB IS TO THE BPM SYSTEM ACCOUNTING FILE (:LOO); W:LO DEFAULTS TO THE LINE PRINTER.
- 705715 SIGMA 5/7 RANDOM
AUTHOR: XEROX
ABSTRACT:
SUBROUTINE RANDOM INTERFACES XDS FORTRAN-IV WITH THE KEYED-FILE CAPABILITY OF THE BPM/BTH MONITORS. THE KEYED FILES CREATED ARE HANDLED BY THE MONITOR IN EXACTLY THE SAME WAY AS ANY OTHER KEYED FILES EXCEPT THAT THE DCB'S ARE PRE-DEFINED (IN RANDOM) TO DEF:RAI THRU F:RAM AND DO NOT REQUIRE ASSIGN CONTROL CARDS BECAUSE OF THE FACT THAT THE DCB'S ARE USER DEFINED. THE SUBROUTINE RANDOM CANNOT BE LOADED INTO A LIBRARY, BUT THIS RESTRICTION MAY BE REMOVED LATER. RANDOM MAY BE MAINTAINED, HOWEVER, AS AN ELEMENT FILE. RANDOM IS ENTIRELY CODED IN PROTECTION TYPE 1, AND USES A TEMP STORAGE AREA CALLED BRNDR (TYPE 0).
COMMENTS:
SEE NSS MEMO 89-24-11B. FILES MAY BE OPENED IN SCRATCH OR IN UPDATE MODE, BUT TO UPDATE A FILE, IT MUST HAVE BEEN CLOSED WITH THE SAVE OPTION (Q.V.)
- 705728 SIGMA 5/7 COC HANDLER FOR XEROX MESSAGE SWITCH SYS
AUTHOR: XEROX
ABSTRACT:
CHARACTER ORIENTED COMMUNICATION (COC) HANDLER. DEVELOPED BY XDS FOR XEROX TO PROVIDE COC SYSTEM INTERFACE TO REMOTE TERMINALS VIA A SINGLE 7811 COMMUNICATIONS CONTROLLER.
COMMENTS:
THE COC ROUTINES CONSIST OF THREE USER CALLABLE PROGRAMS TO PROVIDE THE FOLLOWING FUNCTIONS: A. INITIALIZE, B. READ,WRITE C. TERMINATE. THE INITIALIZE FUNCTION PERFORMS COC SYSTEM START-UP. THE READ,WRITE FUNCTION INITIATES CHAR INPUT FROM OR OUTPUT TO A USER SPECIFIED BUFFER ON A USER SPECIFIED LINE. THE INFO PROVIDED BY THE USER CONSISTS OF LINE CONTROL INFO AND A SET OF THREE ISCD FORMATTED WORDS WHICH DEFINE THE ACTION TO BE DONE. THE TERMINATE FUNCTION PERFORMS COC SYSTEM SHUT-DOWN. INTERRUPT SERVICE ROUTINES PERFORM COC I/O INTERRUPT SERVICING, CHARACTER TRANSLATIONS, SPECIAL CHARACTER ACTIONS, MESSAGE ASSEMBLY, AND LINE CONTROL FUNCTIONS.
- 705738 SIGMA 5/7 MEMORY DIAGNOSTIC-FAULT LOCATOR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LOCATE AND ISOLATE MALFUNCTIONS IN THE SIGMA 5/7 MEM MEMORY TO MODULE LEVEL. SWITCHES, DRIVERS, AND BASIC MEMORY UNIT OF THE MEMORY SYSTEM ARE DIAGNOSED BY THIS PROGRAM.
COMMENTS:
THE PROGRAM WILL REQUIRE AN BK OF MEMORY FUNCTIONING CORRECTLY. BANKS A OF THE MEMORY MUST BE SET TO AN EVEN NUMBERS WHILE THE CORRESPONDING BANK B OF A GIVE SWITCH MUST BE SET TO THE NEXT HIGHER ODD NUMBER. ASR/KSR OR LINE PRINTER IS OPTIONAL BUT DESIRABLE.
- 705750 SIGMA 5/7 ONE CARD CORE DUMP - UTILITY
AUTHOR: XDS
ABSTRACT:
A ONE CARD STAND ALONE PROGRAM TO DUMP CORE ONTO MAGNETIC TAPE. THE LENGTH OF THE RECORDS IS 512 WORDS.
- 705751 SIGMA 5/7 KEYED CORE DUMP - UTILITY
AUTHOR: XDS
ABSTRACT:
CREATE A KEYED CORE DUMP FILE WITH THE KEY AS THE FIRST CORE LOCATION OF EACH PAGE OF CORE.
- 705757 SIGMA 5/7 PRINT DUMP
AUTHOR: XEROX
ABSTRACT:
LIST A PREVIOUSLY CREATED FILE WHICH CONTAINS A DUMP OF CORE MEMORY. THE SIGMA 5/7 ONE CARD CORE DUMP PROGRAM CAN BE USED TO CREATE THE DUMP FILE.
- 705762 SIGMA 5/7 FORTRAN IV ALLOCATION DIAGNOSTICS DEMO
AUTHOR: XEROX
ABSTRACT:
THIS IS A FORTRAN IV SOURCE DECK THAT CONTAINS A VARIETY OF ERRORS IN THE USE OF COMMON AND EQUIVALENCE.
COMMENTS:
NSS MEMO 89-20-33 INCLUDES A LISTING AND DESCRIPTION OF THIS PROGRAM, AS COMPILED BY THE SIGMA 5/7 FORTRAN IV COMPILER.

- 705773 SIGMA 5/7 BTM MESSAGE SAVER
AUTHOR: XEROX
ABSTRACT:
THE BTM MESSAGE SAVER PROCESSOR ALLOWS BTM OPERATORS TO CREATE OR ADD TO A DESIGNATED FILE, MESSAGES OF IMPORTANCE TO ON-LINE USERS. THIS FILE CAN BE ACCESSED AND LISTED BY THE ON-LINE USER IN ORDER TO FIND OUT PERTINENT INFORMATION CONCERNING THE SYSTEM. THE MESSAGE SAVER RUNS IN THE BACKGROUND, REQUIRING THAT THE OPERATORS USE THE 'OC' TO INPUT DATA.
COMMENTS:
MINIMUM SYSTEM REQUIREMENTS: ANY BPM/BTM SYSTEM.
- 705775 SIGMA 5/7 SNEAK-ON MEMORY PRINT
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DUMPS MEMORY TO THE LINE PRINTER WITH A MINIMAL LOSS OF DATA DUE TO ITS OWN RESIDENCY. IT OPERATES AS MULTI-OVERLAYS FROM THE BOOTSTRAP AREA THEREFORE IT ONLY DESTROYS REGISTER ZERO AND CORE FROM HEX 2A-3F. THE PROGRAM WILL OPERATE IN ANY SIGMA 5/7 WITH CORE SIZES 2K-128K. AS SUPPLIED THE PROGRAM PRINTS 35 LINES PER PAGE ON PRINTER 002 THIS CAN BE CHANGED EASILY BY ALTERING 1 SOURCE STATEMENT FOR THE PRINTER ADDRESS AND ONE FOR LINES PER PAGE. REASSEMBLE WITH META-SYMBOL ONLY.
COMMENTS:
THIS PROGRAM DOES NOT SUPPORT THE LOW SPEED PRINTER AS THERE IS NOT SUFFICIENT MEMORY SPACE IN THE OVERLAY AREA TO PERMIT THE REQUIRED DATA CHAINING.
- 705781 SIGMA 5-9 RBM MACRO-SYMBOL ASSEMBLER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS TITLE COVERS THE FIVE ASSEMBLIES IN THE XEROX SIGMA 5-9 MACRO-SYMBOL ASSEMBLER. THE ASSEMBLIES GENERATE A ROOT SEGMENT AND FOUR OVERLAY SEGMENTS. THE MACRO-SYMBOL ASSEMBLER READS SOURCE AND/OR COMPRESSED INPUT AND GENERATES SIGMA 5-9 STANDARD COMPRESSED AND/OR BINARY OUTPUT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MACROSYMBOL. THE SOURCE LANGUAGE OF THE ASSEMBLER, IS MACRO-SYMBOL. THE ASSEMBLER IN OVERLAY FORM, REQUIRES 8K, WHICH INCLUDES ALL NECESSARY MONITOR CONTROL BLOCKS AND DCB'S.
- 705784 SIGMA 5/7 RUN-TIME TRACE
AUTHOR: XEROX
ABSTRACT:
THIS SUBROUTINE IS CALLED DURING EXECUTION OF A USER'S PROGRAM TO LIST (USING F:108 DCB) THE OPERATION OF THE USER'S PROGRAM AT THE MACHINE LANGUAGE LEVEL. CALLING SEQUENCES ARE COMPATIBLE WITH FORTRAN, COBOL AND ASSEMBLY LANGUAGE. THE TRACE LISTING INCLUDES - INSTRUCTION LOCATION AND CONTENTS, MNEMONIC EFFECTIVE ADDRESS AND CONTENTS, CONDITION CODES AND GENERAL REGISTER CONTENTS. OPTIONAL CALLS ALLOW SUPPRESSING OR ALLOWING OF LISTING.
COMMENTS:
TRACE UTILIZES STANDARD I/O SUBROUTINES IN THE FORTRAN IV RUNTIME LIBRARY AND SO THEY MUST BE RESIDENT. FOR NON-FORTRAN PROGRAMS, BETWEEN 2-3 THOUSAND EXTRA WORDS WILL BE REQUIRED FOR THE TRACE PROGRAM AND THE FORTRAN LIBRARY ROUTINES. FOR FORTRAN PROGRAMS, IT IS PROBABLE THAT ONLY THE EXTRA CORE FOR THE TRACE PROGRAM WILL BE ADDED TO THE USER'S.
** NSS MEMO 69-20-30 REV B CONTAINS A DETAILED DESCRIPTION OF THE TRACE PROGRAM **
- 705785 SIGMA 5/7 MACEI
AUTHOR: XEROX
ABSTRACT:
MACE IS AN ON-LINE BTM PROGRAM WHOSE PURPOSE IS TO AID THE DIAGNOSIS OF SYSTEM FAILURES. IT DISPLAYS UNDER USER CONTROL THE CONTENTS OF SELECTED WORDS FROM A SPECIAL CORE DUMP FILE OR FROM THE CURRENT CORE STORAGE, AND PERFORMS SEVERAL RELATED UTILITY FUNCTIONS.
- 705818 SIGMA 5 NASA/BALL MODEL XPS-95 HANDLER
AUTHOR: XEROX
ABSTRACT:
THIS HANDLER ALLOWS USERS TO ADDRESS THE XPS-95 WITHOUT CONCERNING HIMSELF WITH THE FORMAT OF DIO DATA WORD, THE WRITE-DIRECT INSTRUCTION, OR THE SETTING UP OF INTERRUPT XPSD'S.
COMMENTS:
CONFIGURATION REQUIREMENT: SIGMA 5 WITH MODEL XPS-95 CYCLIC INTERFACE UNIT, MODELS 7930/7931 DIGITAL I/O ADAPTOR, AND A FRONT END PCH DATA INPUT UNIT.
- 705843 SIGMA 5 NASA/BALL MODEL XPS-95 DEMO PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO DEMONSTRATE THE OPERATION OF MODEL XPS-95 IN A SIGMA 5 COMPUTER SYSTEM
COMMENTS:
THIS PROGRAM IS WRITTEN SPECIFICALLY FOR THE NASA/BALL SIGMA 5 SYSTEM WHICH INCLUDES A FRONT END PCH DATA INPUT UNIT. ITS MINIMUM CONFIGURATION REQUIRES A SIGMA 5 COMPUTER WITH TYPEWRITER, LINE-PRINTER, MODEL XPS-95 CYCLIC INTERLACE UNIT, DIGITAL I/O ADAPTOR MODELS 7930/7931, AND A FRONT END PCH DATA INPUT UNIT.

- 705848 SIGMA 5/7 XDS SNOBOL4
AUTHOR: XEROX
ABSTRACT:
THIS TITLE AND COVER NUMBER COVERS ALL ELEMENTS OF THE XDS SNOBOL4 LANGUAGE, NAMELY THE INTERPRETIVE COMINTERPRETIVE INSTRUCTIONS (SNOPROC), THE SYNTAX TABLES FOR THE LANGUAGE (SYNTAX), AND THE RUNTIME LIBRARY ROUTINES USED FOR I/O (SNOLIB).
COMMENTS:
THE DEFINITIVE LANGUAGE REFERENCE MANUAL IS (THE SNOBOL4 PROGRAMMING LANGUAGE) BY GRISHOLD, POAGE AND POLONSKY, PUBLISHED BY PRENTICE-HALL.
- 705852 SIGMA 5/7 GRAPHIC DISPLAY TO PLOTTER COPY
AUTHOR: XEROX
ABSTRACT:
THIS SUBROUTINE PRODUCES A PLOTTED COPY OF ANY DATA DISPLAYED ON A 7500 GRAPHIC DISPLAY UNIT. THIS PLOT IS PRODUCED ON A 7530 OR 7531 PLOTTER. IT WILL RUN UNDER EITHER SIGMA 5/7 RSM OR BPH.
COMMENTS:
THIS SUBROUTINE REQUIRES THE SIGMA 5/7 PLOTTING PACKAGE, CATALOG NO. 708887.
- 705854 SIGMA 5/7 SIU 7923 HANDLER
AUTHOR: XEROX
ABSTRACT:
PROVIDES USER OF FORTRAN IV-H (UNDER RSM-2) ACCESS TO MODEL 7923 ANALOG INPUT/OUTPUT ADAPTER. FOUR CALLS PROVIDE THE USER WITH ABILITY TO SET UP SEQUENCES OF ONE OR MORE COMMANDS, AND TO CALL FOR EXECUTION OF THESE SEQUENCES AT A LATER TIME.
COMMENTS:
HANDLER IS REENRANT, OPERATES IN THE FOREGROUND, OCCUPIES 190 LOCATIONS, AND SHOULD BE PLACED IN THE PUBLIC LIBRARY. SOURCE LANGUAGE IS MACRO-SYMBOL.
- 705860 SIGMA 5/7 HANDLER FOR 7988 FREQUENCY CONTROL UNIT
AUTHOR: XEROX
ABSTRACT:
THIS HANDLER REQUIRES THE RSM OPERATING SYSTEM AND IS INTENDED FOR THE FORTRAN IV-H USER. HOWEVER, IT MAY BE USED BY THE ASSEMBLY LANGUAGE USER. THE HANDLER NORMALLY RESIDES IN THE PUBLIC LIBRARY AND REQUIRES 87 WORDS OF MEMORY.
COMMENTS:
THIS HANDLER IS NORMALLY USED IN CONJUNCTION WITH OTHER SYSTEM INTERFACE UNITS TO PROVIDE EXTERNAL FREQUENCY CONTROL FOR THOSE SIU'S. AT LEAST ONE 7988/7971/7972 IS REQUIRED.
- 705861 SIGMA 5/7 HANDLER FOR 7939/7981 DIGITAL I/O UNIT
AUTHOR: XEROX
ABSTRACT:
THIS HANDLER IS INTENDED FOR USE WITH THE FORTRAN IV-H PROCESSOR AND THE RSM OPERATING SYSTEM. HOWEVER, THE HANDLER DOES NOT USE ANY MONITOR SERVICE FUNCTIONS SO IT MAY BE USED IN A STAND-ALONE ENVIRONMENT.
COMMENTS:
THE HANDLER NORMALLY RESIDES IN THE PUBLIC LIBRARY. IT REQUIRES 181 WORDS OF CORE.
- 705862 SIGMA 5-9 REVISED MAG TAPE COPY - VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL COPY, VERIFY, OR COPY AND VERIFY LABELED OR UNLABELED MAGNETIC TAPES. THE PROGRAM IS A REVISION OF 'MAGNETIC TAPE COPY AND VERIFY PROGRAM (BPH) - CATALOG NUMBER 705388, WHICH ADDS THE FOLLOWING FEATURES: (1) THE PROGRAM WILL CALCULATE THE THEORETICAL LENGTH OF THE OUTPUT COPY, (2) THE PROGRAM WILL EXECUTE A LOOP BETWEEN THE COPY AND VERIFY PHASES TO ALLOW THE OPERATOR TO CHANGE DRIVES FOR VERIFICATION, (3) THE TOTAL NUMBER OF READS (TOTAL RECORDS VERIFIED) IS RETURNED DURING VERIFICATION AND (4) SHOULD AN ERROR OR ABNORMAL CONDITION BE SENSED BY THE MONITOR, THE BPH CODE WILL BE RETURNED IN THE PROGRAM ERROR MESSAGE.
THIS PROGRAM WILL RETURN LABEL INFORMATION FOR AMS FORMATTED TAPES, HOWEVER, THE TAPE WILL BE COPIED IN THE UNLABELED MODE.
COMMENTS:
THE PROGRAM IS WRITTEN IN META-SYMBOL. THE PROGRAM REQUESTS 16 PAGES OF CORE FOR A COPY OR 32 PAGES FOR A COPY AND VERIFY, BUT WILL RUN WITH LESS. IN THIS CASE, DATA MAY BE LOST.
IF SO, THE PROGRAM WILL BE ERRED, AND A MESSAGE WILL BE RETURNED TO THE USER.
- 705864 SIGMA 5/7 HANDLER FOR 7915/ADS-10 AIC
AUTHOR: XEROX
ABSTRACT:
THIS HANDLER REQUIRES THE RSM OPERATING SYSTEM AND IS INTENDED FOR THE FORTRAN IV-H USER. HOWEVER, IT MAY BE USED BY THE ASSEMBLY LANGUAGE USER. THE HANDLER NORMALLY RESIDES IN THE PUBLIC LIBRARY AND REQUIRES 331 WORDS OF MEMORY.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 COMPUTER WITH 7915/ADS-10 ANALOG INPUT CONTROLLER(S) PLUS THE NECESSARY DIGITIZERS AND MULTIPLERS.

- 705889 SIGMA 5/8/7 SHUT - (SIGMA 5/8/7 MULTI TAPE COPY)
AUTHOR: W. MATTS - XDS
ABSTRACT:
THIS PROGRAM IS DESIGNED TO COPY AND VERIFY UP TO SEVEN OUTPUT TAPES FROM ONE INPUT TAPE. THE NUMBER OF TAPES TO BE PRODUCED WILL DEPEND UPON THE VALUE RETURNED BY AN OPERATOR KEY IN REQUEST AT RUN-TIME. THE PROGRAM WILL COPY OR COPY AND VERIFY LABELED OR UNLABELED TAPES; AND MAY, BY MODIFYING 1 CARD, BE MADE TO COPY AND VERIFY THROUGH MULTIPLE SETS OF END-OF-FILES ON A TAPE. SEE THE -11 ELEMENT FOR FURTHER COMMENTS.
COMMENTS:
WRITTEN IN META-SYMBOL, THE PROGRAM WILL RUN ON ANY SYSTEM WHICH SUPPORTS THE BATCH PROCESSING MONITOR. THE PROGRAM REQUESTS 16K STORAGE FOR A COPY AND 32K FOR A VERIFY, BUT WILL EXECUTE A COPY CORRECTLY WITH NO MORE THAN SUFFICIENT STORAGE TO HOLD THE LARGEST RECORD ENCOUNTERED. A VERIFY WILL REQUIRE THICE AS MUCH STORAGE. THE LARGEST RECORD WHICH MAY NOW BE HANDLED IS 8K WORDS, DUE TO LIMITATIONS IN BPM. THE PROGRAM REQUESTS THICE AS MUCH TO ALLOW FOR FUTURE EXPANSION OF BPM.
- 705881 SIGMA 5/8/7 MULTSORT - SORT MULTIPLE INPUT FILES
AUTHOR: R. EVANS, XDS
ABSTRACT:
SORT EXIT TO ALLOW UP TO 37 SEPARATE FILES TO BE INPUT TO A STANDARD SIGMA SORT-THE FILES MAY BE ANY MIXTURE OF DISC OR TAPE, MONITOR OR FOREIGN FORMAT, WITH OR WITHOUT LABELS.
COMMENTS:
THE SORT EXIT MUST BE ASSEMBLED THEN LOADED WITH THE STANDARD SORT ROMS. THE SORT ROMS MUST BE AS OF VERSION 000 OR HAVE BEEN UPDATED WITH SIDR 1883 AS EXPLAINED IN APPLIED PROGRAMMING BULLETIN AP70-584 DATED JULY 20, 1970.
- 705882 SIGMA 5/8/7 SORT 1400 SIMULATOR FORMATTED TAPE FILES
AUTHOR: R. EVANS, XDS
ABSTRACT:
SORT EXITS TO ALLOW UP TO 9 SEPARATE 1400 SIMULATOR FORMATTED TAPES TO BE SORTED BY THE STANDARD SIGMA 5/7 SORT.
COMMENTS:
THE SORT EXITS MUST BE ASSEMBLED THEN LOADED WITH THE STANDARD SORT ROMS. THE SORT ROMS MUST BE AS OF VERSION 000 OR HAVE BEEN UPDATED WITH SIDR 1883 AS EXPLAINED IN APPLIED PROGRAMMING BULLETIN AP70-584 DATED JULY 20, 1970.
- 705891 SIGMA 5/7 7910 SIU HANDLER (FORTRAN IV-H)
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
PROVIDES ACCESS TO THE 7910 ANALOG OUTPUT CONTROLLER FOR THE FORTRAN IV-H USER RUNNING IN THE RSM FOREGROUND. TWO CALLS ARE PROVIDED TO: 1-SET UP I/O TABLE FOR OUTPUT. 2-INITIATE OUTPUT TO THE 7910.
COMMENTS:
SOURCE LANGUAGE IS SIGMA 5/7 MACRO-SYMBOL AND STORAGE SIZE IS 150 CELLS. MODE OF OPERATION IS REENRANT AND THUS RUNS AS PUBLIC LIBRARY ROUTINE. TOEX IS USED FOR PERFORMING THE REQUIRED OUTPUT OPERATIONS.
- 705896 SIGMA 5/7 SPECIAL FORT-SYMBOL INTERFACE ROUTINES
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THESE ROUTINES PROVIDE FUNCTIONS THAT ARE REQUIRED TO ALLOW ASSEMBLY LANGUAGE ROUTINES TO COMMUNICATE WITH FOREGROUND FORTRAN ROUTINES.
COMMENTS:
ROUTINES ARE PART OF USER'S LIBRARY UNDER RSM. THEY REQUIRE BN LOCATIONS.
- 705897 SIGMA 5/7 USER LIBRARY H88 HYBRID EXECUTIVE LIBRARY
AUTHOR: XDS - DATA SYSTEMS DIVISION
ABSTRACT:
THIS LIBRARY ALLOWS THE HYBRID INSTALLATION USER TO COMMUNICATE WITH SENSE AND CONTROL LINES, DO A TO D AND D TO A CONVERSION, AND CONTROL CLOCKS AND INTERRUPTS. ALL OF THE LIBRARY ROUTINES ARE FORTRAN CALLABLE.
COMMENTS:
THE MESSERSCHMITT-BOLKOW-BLOHM HYBRID EXECUTIVE LIBRARY WAS DERIVED FROM THE STANDARD XDS HYBRID EXECUTIVE LIBRARY.
- 706104 SIGMA 5/8/7 WORKING DAYS SUBROUTINE - WORKDAYS
AUTHOR: G. HOFFMAN, XDS
ABSTRACT:
A COBOL CALLABLE SUBROUTINE TO PROVIDE THE NUMBER OF WORKING DAYS BETWEEN ANY TWO GIVEN DATES
- 706105 SIGMA 5/8/7 DATE CONVERSION SUBROUTINE
AUTHOR: R. DESARRA, XDS
ABSTRACT:
A COBOL CALLABLE SUBROUTINE TO CONVERT BETWEEN JULIAN DATE AND GREGORIAN DATE AND TO OBTAIN CURRENT DATE AND TIME.

- 708111 SIGMA 7 BASIC TEXT ARRAY GENERATOR (TEXTAR)
AUTHOR: J.G. DAY, XDS
ABSTRACT:
THIS PROGRAM READS A SERIES OF 18-CHARACTER BCD RECORDS AND GENERATES A SERIES OF CORRESPONDING 'BASIC' ASSIGNMENT STATEMENTS DEFINING AN ARRAY OF 8-CHARACTER SUBSTRINGS.
COMMENTS:
THE PROGRAM RUNS UNDER BPM/BTM.
- 708113 SIGMA 5/7 RBM MOC HANDLER
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
THE MOC HANDLER PERMITS A FOREGROUND USER PROGRAM TO COMMUNICATE WITH AN EXTERNAL DEVICE VIA A MODEL 7601 MESSAGE ORIENTED COMMUNICATION (MOC) CONTROLLER. COMPUTER CONFIGURATION: SIGMA 5/7 COMPUTER, 1 EXTERNAL INTERRUPT LEVEL AND MOC CONTROLLER.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION IT IS THEREFORE NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS DIVISION FOR INSTALLATION CHARGES.
- 708119 SIGMA 5/8/7 PRINT/COPY UTILITY - ATACK
AUTHOR: R. DESARRA, XDS - R. HANSON, CSI
ABSTRACT:
A UTILITY PROGRAM TO PRINT OR COPY ALL, OR SELECTED PORTIONS OF A FILE. INPUT FILES MAY BE EITHER LABELED OR UNLABELED (DEVICE) SEQUENTIAL, FILES. OUTPUT FILES MAY BE EITHER KEYED OR SEQUENTIAL, LABELED OR UNLABELED. PROGRAM WILL HANDLE XDS STANDARD LABELS, IBM 380, 1401, AND 7010 LABELS IN AND OUT.
- 708122 SIGMA 5-9 TAPE FILE MANAGE PROCESSOR-TFM
AUTHOR: XEROX
ABSTRACT:
A UTILITY PROCESSOR TO DELETE, ADD, INSERT, REPLACE AND LOG FILES ON A LABELED TAPE.
COMMENTS:
SOURCE LANGUAGE: METASYMBOL. SYSTEM: BPM.
- 708125 SIGMA 5/8/7 PBX11 TELEMETRY SYSTEM
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
THIS PACKAGE OPERATES IN A REAL TIME BPM ENVIRONMENT TO ACQUIRE DATA FROM ANALOG TAPE AND THRUPTUT IT TO DIGITAL TAPE. IT INCLUDES A TELEMETRY COMPILER FOR PROBLEM DEFINITION, A FOREGROUND ACQUISITION THRUPTUT PROCESSOR WHICH CREATES A DIGITAL TAPE FILE, A FORTRAN CALLABLE TAPE RETRIEVAL PROGRAM FOR SUBSEQUENT BACKGROUND PROCESSING A PAH/PDM EXERCISER, AND AN FH/ADC EXERCISER. THE PROGRAM REQUIRES ABOUT 5K OF RESIDENT BPM FOREGROUND AND CONSUMES ABOUT 5 PERCENT CPU TIME FOR ACQUISITION-THRUPTUT WITH 60KB TAPES.
COMMENTS:
THIS PACKAGE IS CUSTOMIZED FOR EACH INSTALLATION BY THE APPLICATIONS PROGRAMMING SECTION, DATA SYSTEMS DIVISION. IT REQUIRES THE PBX11 TELEMETRY HARDWARE.
- 708126 SIGMA 5-9 PAL-KNIC
AUTHOR: H. A. WATTS - XDS
ABSTRACT:
THIS PROGRAM IS USED TO PRODUCE THE KNIC (KEY WORD IN CONTEXT) INDEX USED IN THIS MANUAL. IT IS A HIGHLY SPECIALIZED PROGRAM, BUT MAY BE READILY ADAPTED TO THE USER'S PURPOSES BY CHANGING THE APPROPRIATE PARAMETERS IN THIS PROGRAM AND IN THE METASYMBOL SUB-PROGRAM 'METAKNIC'. THE OUTPUT IS DESIGNED TO PRINT AT 100 LINES PER PAGE FOR LATER REDUCTION AND PRINTING.
COMMENTS:
WRITTEN IN COBOL, THIS PROGRAM RUNS UNDER THE BATCH PROCESSING MONITOR. IT REQUIRES THE USE OF METAKNIC, A METASYMBOL SUB-PROGRAM (CATALOG NUMBER 708127) TO PERFORM LINE-SHIFTS, FORMATTING, AND 'DULLWORD' (A WORD IS CONSIDERED DULL IF IT IS RESTRICTED FROM PRINTING AS A KEY WORD) TESTING.
- 708127 SIGMA 5-9 METAKNIC
AUTHOR: H. A. WATTS - XDS
ABSTRACT:
THIS PROGRAM PERFORMS THE FOLLOWING FUNCTIONS:
1. SHIFTS AND FOLDS EACH LINE TO MOVE EACH WORD TO THE LEFT POSITION.
2. EXAMINES EACH WORD IN THE TITLE AGAINST A DULL (WORDS ON WHICH NO KEYING IS DESIRED) LIST.
3. FORMATS OUTPUT. AND
4. RETURNS OUTPUT TO PAL-KNIC MAIN PROGRAM (CATALOG NUMBER 708126).
COMMENTS:
WRITTEN IN METASYMBOL, THIS PROGRAM RUNS UNDER CONTROL OF PAL-KNIC (CATALOG NUMBER 708126), A COBOL PROGRAM. THE MAIN PROGRAM TAKES THE OUTPUT FROM THIS PROGRAM, SORTS THE DATA, AND FORMS THE KNIC INDEX USED IN THIS MANUAL. (SEE THE KNIC INDEX OF YOUR PAL MANUAL FOR AN EXAMPLE).
- 708129 SIGMA 5/7 GRAPHIC DISPLAY LIBRARY (GDL)
AUTHOR: XEROX
ABSTRACT:
GDL IS A SET OF SUBROUTINES FOR CONTROLLING THE XDS 7580 GRAPHIC DISPLAY CONSOLE AND FOR CONSTRUCTING AND MANIPULATING IMAGES TO BE DISPLAYED ON THE SCREEN. THE PRIMARY PURPOSE OF GDL IS TO PERMIT PROGRAMS TO MAKE USE OF ALL THE FEATURES OF THE DEVICE. THE SUBROUTINES OF GDL WERE DESIGNED TO PROVIDE AS MUCH DISPLAY-PROCESSING POWER AS POSSIBLE WITHOUT USING RESTRICTIVE METHODS AND WITHOUT OBSCURING FEATURES OF

708129 CONTINUED ON FOLLOWING PAGE

- 708129 GRAPHIC DISPLAY LIBRARY (GDL) (CONTINUED)
THE DEVICE. FOR THIS REASON GDL IS USEFUL FOR DIRECT PROCESSING OF IMAGES OR FOR CONSTRUCTING HIGHER-LEVEL DISPLAY-PROCESSING SYSTEM.
COMMENTS:
GDL RUNS AS A FOREGROUND PROGRAM UNDER RBM OR BPM. MEMORY REQUIREMENTS ARE APPROXIMATELY 2500 WORDS FOR GDL PLUS SPACE FOR GDL TO BUILD A DISPLAY LIST WHICH IS RECOMMENDED TO BE AT LEAST 1000 WORDS.
- 708143 SIGMA 5/7 7929 AND 7935 SIU HANDLER
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
RECURRENT HANDLER TO PROVIDE ACCESS TO 7929 SIU AND ASSOCIATED 7923 AND 7930 SIU'S FOR FORTRAN AND ASSEMBLY LANGUAGE USERS. HANDLER CONSISTS OF AN I/O TABLE CONSTRUCTION SECTION, AN I/O EXECUTION SECTION AND AN I/O TEST SECTION. RBM SERVICE ROUTINE IOEX IS USED FOR ALL HANDLER I/O OPERATIONS.
COMMENTS:
COMPUTER CONFIGURATION: SIGMA 5/7, RBM, 7929 SIU WITH 7923 AND/OR 7930 SIU. LOADING PROCEDURE: HANDLER INCORPORATED INTO USER'S FOREGROUND PROGRAM VIA OVERLAY LOADER OR LOADED AS PART OF RBM IN PUBLIC LIBRARY. RESTRICTIONS: HANDLER DOES NOT SAVE REGISTERS. TWO WORDS OF STORAGE SUPPLIED BY USER PROGRAM MUST BE ON A DOUBLE WORD BOUNDARY.
- 708148 SIGMA 5-9 COMPRESSION UTILITY PROGRAM
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM PROVIDES ALL THE FUNCTIONS AND ADVANTAGES OF COMPRESSED DECK USAGE TO THE RBM USER. SINCE IT IS A SEPARATE PROCESSOR THE FEATURES ARE AVAILABLE FOR ANY TYPE OF SYMBOLIC DECK. THUS THE FORTRAN USER MAY HAVE THE ADVANTAGES OF COMPRESSED DECKS AND CORRECTION PACKETS.
COMMENTS:
THIS PROGRAM HAS THE ABILITY TO PROCESS A COMPRESSED DECK THAT HAS BEEN DAMAGED OR IS OTHERWISE UNACCEPTABLE TO META-SYMBOL. THAT IS IT PRINTS AN ERROR MESSAGE AND CONTINUES TO PROCESS THE REMAINDER OF THE INPUT DECK WHEN AN ERROR OCCURS.
- 708201 SIGMA 5/8/7 TRANSMOQ- EBCDIC BINARY FILE BUILD
AUTHOR: H.L. SMITH, XDS
ABSTRACT:
TRANSMOQ IS A BPM PROGRAM WHOSE PURPOSE IS TO BUILD A FILE FROM A DECK OF CARDS CONTAINING CONTROL CARDS. SINCE IN NORMAL BPM USAGE THE MONITOR INTERCEPTS CONTROL CARDS, A SPECIAL PROGRAM SUCH AS THIS IS REQUIRED.
- 708227 SIGMA 5/7 CONTACT CLOSURE HANDLER
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
IS A HANDLER FOR 7930/31 DIGITAL MODULES. TABLE OF DIGITAL MODULE ADDRESSES IS ASSEMBLED INTO ROUTINE. CONTACT CLOSURE IS FORTRAN CALLABLE.
COMMENTS:
USES SUBROUTINES DESCRIBED IN 705896-11A00. THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES.
- 708228 SIGMA 5/7 HANDLER FOR TUNABLE SUBBARRIER OSCILLATOR (VCO)
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
PROVIDES AN INTERFACE TO AN EHR MODEL 4540 TUNABLE SUBBARRIER OSCILLATOR. VCO ACCEPTS INTEGER VALUES AND CONVERTS THEM TO THE FORM REQUIRED BY THE VCO. VCO IS FORTRAN CALLABLE.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES.
- 708229 SIGMA 5/7 DHS-12 DAC HANDLER
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
TO ENABLE A USER'S PROGRAM TO CONTROL A DAC CONNECTED TO A DHS-12. DACOUT PERMITS A USER TO OUTPUT A SINGLE BUFFER ONCE OR TWO BUFFERS FROM 1 TO N TIMES IN A CYCLIC FASHION. DACOUT IS FORTRAN CALLABLE.
COMMENTS:
USES SUBROUTINES DESCRIBED IN 705896-11A00. THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES.
- 708231 SIGMA 5/7 ADC HIGH LEVEL ROUTINES (ADCHIGH)
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
TO CONTROL THOSE FUNCTIONS ASSOCIATED WITH THE ACQUISITION OF DATA FROM A DHS-12.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE WESTERN TECHNOLOGY CENTER FOR INSTALLATION INFORMATION.

- 706232 SIGMA 5/7 ADC LOW LEVEL ROUTINES (ADCLW)
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
TO ALLOW A USER TO CONTROL THE DMS-12 ADC AND MUX CONTROLLERS. THIS ALLOWS THE USER TO INPUT HIGH SPEED ANALOGUE LEVEL. ADCLW IS FORTRAN CALLABLE.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE WESTERN TECHNOLOGY CENTER FOR INSTALLATION INFORMATION.
- 706233 SIGMA 5/7 DATA RETRIEVAL SUBROUTINES
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
DATA RETRIEVAL RETRIEVES CHANNEL INFORMATION FROM THE SPECIAL DATA BASE GENERATED BY ADCHIGH. DATA IS STORED RIGHT JUSTIFIED, SIGN EXTENDED IN A USER SUPPLIED BUFFER. DATA IS RETRIEVED ON A CHANNEL/INDEX BASIS. DATA RETRIEVAL CONSISTS OF TWO SUBROUTINES, OPEN AND RETRIEVE. OPEN LOCATES AND OPENS THE INPUT FILE. RETRIEVE FETCHES DATA AND STORES IT IN THE USER BUFFER.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES
- 706237 SIGMA 5/7 TIME CODE SYSTEM HANDLER (TCSH)
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
TCSH PERFORMS ALL FUNCTIONS ASSOCIATED WITH CONTROLLING THE TIME CODE TRANSLATOR AND THE TAPE SEARCH UNIT. TCSH ALSO READS TIME FROM THE TCT AND CONVERTS TIME WORDS FROM AND TO TCT FORMAT.
COMMENTS:
THIS PROGRAM IS CUSTOMIZED FOR EACH INSTALLATION. THEREFORE IT IS NECESSARY TO CONTACT THE APPLICATIONS SECTION OF DATA SYSTEMS FOR INSTALLATION CHARGES
- 706242 SIGMA 5-9 METAFUMBLE
AUTHOR: H. GARDNER ROWLEY, II
ABSTRACT:
METAFUMBLE SIMPLIFIES THE CONTROL-CARD SEQUENCE REQUIRED TO EXECUTE MULTIPLE METASYMBOL ASSEMBLIES INVOLVING A COMPRESSED INPUT (CI) MEDIUM.
COMMENTS:
THE PROCESSOR IS ESPECIALLY VALUABLE WHEN UPDATING AND ASSEMBLING THE BPM/BTH SYSTEM FROM ITS CI-TAPE. IF THE OUTPUT INCLUDES LISTINGS TO BE COMPRESSED TO TAPE OR FILE, ORDER LIBRARY CATALOG 706243 (UTILIST).
- 706243 SIGMA 5-9 UTILIST
AUTHOR: R. NAKEN
ABSTRACT:
UTILIST IS DESIGNED TO CREATE A FILE/LABEL-TAPE CONSISTING OF LISTING DATA OR TO LIST A FILE/TAPE PREVIOUSLY CREATED. THE FILE/TAPE OUTPUT WILL BE COMPRESSED (BLANKS REMOVED). INPUT TO BE PRINTED CAN BE COMPRESSED OR NON-COMPRESSED.
- 706292 SIGMA 5-9 BASIC CONCORDANCE
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM TAKES AN XEROX BASIC PROGRAM FOR INPUT AND PRODUCES A CONCORDANCE OF THAT PROGRAM, LISTING LINE NUMBER REFERENCES, USER DEFINED FUNCTIONS, ARRAYS, STRINGS, AND SIMPLE VARIABLES ALONG WITH THOSE LINE NUMBERS IN WHICH THEY ARE USED.
COMMENTS:
THE PROGRAM SOURCE LANGUAGE IS XEROX EXTENDED FORTRAN IV.
- 706437 SIGMA 5-9 SCU INTERPRETER
AUTHOR: XEROX
ABSTRACT:
THE SCU INTERPRETER (SIN) ENABLES DEVELOPMENT OF SCU SOFTWARE ON SIGMA COMPUTERS. SCU INSTRUCTIONS CAN BE TRACED WITH A, B, AND C BUS VALUES DISPLAYED. PSEUDO CONTROL MEMORY IMAGE CAN BE BUILT BY COMBINING ASSEMBLIES. SIN HAS CAPABILITY OF PATCHING BOTH PSEUDO CONTROL AND MAIN MEMORIES.
COMMENTS:
THE SCU INTERPRETER REQUIRES EITHER UTS OR A BPM OPERATING SYSTEM AND SUFFICIENT MEMORY TO FIT A 13K WORD PROCESSOR.
- 706454 SIGMA 7/9 RELIABILITY PREDICTION CREATE/UPDATE
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM CREATES OR UPDATES A FILE OF ASSEMBLY, SUBASSEMBLY AND COMPONENT PART NUMBERS. THESE PARTS ARE ORGANIZED INTO PART STRUCTURES; SOME TOP ASSEMBLIES HAVE AS MANY AS 8 LEVELS OF SUBASSEMBLIES. THIS PROGRAM ACCEPTS TRANSACTIONS IN THE FORM OF CARDS TO ADD, DELETE, OR MODIFY A PART'S PARAMETERS OR THE PARAMETERS OF THE RELATIONSHIP BETWEEN 2 PARTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE FILE OF PARTS AND PART STRUCTURES IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS) THE PROGRAM USES DMS TO ACCESS THE FILE.

- 708455 SIGMA 7/9 RELIABILITY PREDICTION CALCULATION
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM CALCULATES THE FAILURE RATE OF THE VARIOUS SUBASSEMBLIES AND TOP ASSEMBLIES IN A FILE OF PARTS AND PART STRUCTURES. AT THE COMPONENT LEVEL, THE FAILURE RATE IS GIVEN DEPENDING WHERE THE PART IS USED. THE TOP ASSEMBLY OR SUBASSEMBLY FAILURE RATE IS THE SUM OF THE FAILURE RATE OF ITS PARTS MODIFIED BY AN APPLICATION FACTOR OR DUTY CYCLE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE FILE OF PARTS AND PART STRUCTURE IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE PROGRAM USES DMS TO ACCESS THE FILE.
- 708458 SIGMA 7/9 RELIABILITY PREDICTION REPORT GENERATOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM LISTS OUT IN VARIOUS FORMATS THE DATA IN A FILE OF PARTS AND PART STRUCTURES. THIS INCLUDES A LISTING OF TOP ASSEMBLIES AND ITS PARTS AND A PARTS EXPLOSION LISTING. THE USER SELECTS THE LISTINGS HE NEEDS WITH TRANSACTION CARDS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE FILE OF PARTS AND PART STRUCTURES IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE PROGRAM USES DMS TO ACCESS THE FILE.
- 708457 SIGMA 7/9 RECOMMENDED SPARES
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM PRODUCES A RECOMMENDED SPARES LIST FOR ANY COMBINATION OF 100 TOP ASSEMBLIES FROM A FILE OF PARTS AND THEIR FAILURE RATES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. THE FILE OF PARTS IS ORGANIZED USING XEROX'S DATA MANAGEMENT SYSTEM (DMS). THE PROGRAM USES DMS TO ACCESS THE FILE.
- 708467 SIGMA 5-9 RBM ERROR LOG LISTER
AUTHOR: XEROX
ABSTRACT:
THE RBM ERROR LOG LISTER PROGRAM READS AN ERROR LOG FILE AND FORMATS AND PRINTS THESE RECORDS ON AN OUTPUT FILE.
COMMENTS:
THE RBM ERROR LOG LISTER RUNS AS A BACKGROUND PROGRAM. IT IS A TEMPORARY PRODUCT FOR USE WITH THE C03 RELEASE OF RBM ONLY. IT WILL BE REPLACED BY ANOTHER PRODUCT FOR THE NEXT RELEASE OF RBM.
- 708504 SIGMA 6/7/9 BOOK
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM AND THREE ASSOCIATED EBCDIC DATA FILES ALLOW AN ON-LINE USER TO SELECT AND DISPLAY ANY PART OF THE CP-V USER GUIDE. THE PROGRAM IS WRITTEN IN CP-V BASIC AND OPERATES IN THE CP-V TIMESHARING MODE WITH ANY TELETYPE-COMPATIBLE TERMINAL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN CP-V BASIC.
- 708500 SIGMA 6/7/9 PLANT SECURITY CONTROL PACKAGE
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PURPOSE OF THE PLANT SECURITY CONTROL PACKAGE IS TO: 1) PROVIDE CONTROL FOR KEYCARD READERS INSTALLED AT CRITICAL ACCESS LOCATIONS, 2) BUILD AND MAINTAIN THE DATABASE ACCESSED BY THE READER-CONTROL PROGRAMS, AND 3) DUMP SELECTED REPORTS ON THE STATUS OF THAT DATABASE.
THIS PACKAGE CONSISTS OF SEVEN PROGRAMS:
1. SECSHEMA-THE SCHEMA FOR THE EDMS DATABASE.
2. SECCONTROL-THE CTRL MODULE WHICH DRIVES THE COC GHOST MODULE AND RECORDS ATTEMPT TO ACCESS.
3. SECCOC-THE COC GHOST MODULE WHICH CONTROLS THE DEDICATED COC CONTROLLER AND EVALUATES ENTRY REQUESTS.
4. SECUPDATE-A MODULE WHICH PROVIDES A MECHANISM FOR THE INSERTION, DELETION OR MODIFICATION OF RECORDS IN THE EDMS DATABASE.
5. SECREPORT-A MODULE TO OUTPUT FORMATTED REPORTS FROM THE EDMS DATABASE.
6. SECSTATISTICS-A MODULE TO CALCULATE AND GRAPH ELAPSED RECORD HANDLING TIME BY THE COC MODULE.
7. SECLOADDB-A PROGRAM TO LOAD NEW EMPLOYEE RECORDS FROM PUNCHED CARDS.
AMONG THE FEATURES OF THIS SYSTEM IS THE ABILITY FOR A MANAGER TO CONTROL WHO HAS ACCESS PAST READERS UNDER HIS RESPONSIBILITY, AND THE ABILITY TO QUERY THE DATABASE FOR SELECTED DATA FROM EITHER THE CONTROL OR UPDATE MODULES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
A BOO OR LATER VERSION OF CP-V IS REQUIRED AS REAL-TIME EXTENSIONS TO CP-V ARE REQUIRED. THIS PACKAGE IS WRITTEN IN METASYMBOL, AND IS DESIGNED TO CONTROL KEYCARD READERS WHICH TRANSMIT SERIALLY. THE DECODE FUNCTION IS BASED ON THE ALGORITHM UTILIZED BY READERS PROVIDED BY RUSCO INDUSTRIES, LOS ANGELES, CA. ANY CHANGE IN SUPPLIERS WILL REQUIRE CODE MODIFICATIONS. A DEDICATED 7611 COC CONTROLLER WITH 1-84 LINES IS REQUIRED. CERTAIN PROGRAMS REQUIRE AN ED PRIVILEGE TO EXECUTE REAL-TIME CALS. THIS SYSTEM IS AVAILABLE ON A CONTROLLED RELEASE BASIS. THIS PROGRAM IS RESTRICTED.

- 890000 SIGMA 5/7 XDS NUMERICAL SUBROUTINE PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THE XDS NUMERICAL SUBROUTINE PACKAGE CONSISTS OF 132 FORTRAN SUBROUTINES DIVIDED INTO 7 CLASSES: 1 MISCELLANEOUS ROUTINES 2. MATRICES 3. POLYNOMIALS 4. PROBABILITY AND STATISTICS 5. MATHEMATICAL ROUTINES 6. ANALYSIS 7. REGRESSION THESE SUBROUTINES ARE WRITTEN IN THE FORTRAN IV-H LANGUAGE AND WILL OPERATE IN ANY CONFIGURATION WHICH WILL SUPPORT THE COMPILER AND RUN-TIME PACKAGES.
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBER 890001-890132. ALL PROGRAM DESCRIPTIONS ARE INCLUDED IN XDS MANUAL 901505. SOURCE IMAGES ARE AVAILABLE ON MAGNETIC ONLY.
- 890143 SIGMA 5-9 ROM BREAKDOWN TRANSLATOR (ROMBUST)
AUTHOR: XEROX
ABSTRACT:
RELOCATABLE OBJECT MODULE (ROM) RECORDS FROM SOURCE INPUT (S1) ARE ANALYZED AND INTERPRETED INTO PLAIN TEXT ON THE LO DEVICE. ALL RECORD CONTROL INFORMATION AND EACH ROM LOAD ITEM IS DISPLAYED AS A GROUP. ALL LOAD ITEM BYTES ARE ALSO DISPLAYED IN HEXADECIMAL FORM ABOVE EACH LOAD ITEM INTERPRETATION.
- 890144 SIGMA 5/7 SYMMETRIC LIST PROCESSOR (32K)
AUTHOR: VANDERBILT UNIV
ABSTRACT:
SLIP-I IS THE XDS VERSION OF THE SYMMETRIC LIST PROCESSOR AS DESCRIBED IN COMMUNICATIONS OF ACM - VOLUME 6/NUMBER 9/SEPT-63. THE PACKAGE CONSISTS OF TWO PARTS, ONE PART CONSISTS OF COMPILER LANGUAGE SUBROUTINES, THE SECOND PART CONSISTS OF ASSEMBLY LANGUAGE PRIMITIVES. THE PACKAGE IS DESIGNED AS A SET OF LIBRARY ROUTINES TO BE LOADED WITH A USER'S PROGRAM OR INCLUDED AS PART OF A STANDARD LIBRARY SLIP-I IS DESIGNED TO OPERATE IN A 32K MACHINE.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV-H AND SYMBOL
- 890145 SIGMA 5/7 SYMMETRIC LIST PROCESSOR (OVER 32K)
AUTHOR: VANDERBILT UNIV
ABSTRACT:
SLIP-II IS THE XDS VERSION OF THE SYMMETRIC LIST PROCESSOR AS DESCRIBED IN COMMUNICATIONS OF ACM - VOLUME 6/NUMBER 9/SEPT-63. THE PACKAGE CONSISTS OF TWO PARTS, ONE PART CONSISTS OF COMPILER LANGUAGE SUBROUTINES, THE SECOND PART CONSISTS OF ASSEMBLY LANGUAGE PRIMITIVES. THE PACKAGE IS DESIGNED AS A SET OF LIBRARY ROUTINES TO BE LOADED WITH A USER'S PROGRAM OR INCLUDED AS PART OF A STANDARD LIBRARY. SLIP-II IS DESIGNED TO OPERATE IN A MACHINE WITH OVER 32K.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV-H AND SYMBOL.
- 890146 SIGMA 5/7 SIGMA 5/7 MFOR LINEAR PROGRAMMING CODE
AUTHOR: XEROX
ABSTRACT:
SOLUTION TO LINEAR PROGRAMMING PROBLEMS USING THE PRODUCT FORM OF THE INVERSE METHOD. THE COMPUTATION IS DONE ALL-IN-CORE, AND THE PROGRAM WILL ATTEMPT TO SOLVE PROBLEMS WITH UP TO 511 ROWS, 2000 COLUMNS, AND 6000 MATRIX ENTRIES.
COMMENTS:
THIS PROGRAM REQUIRES 32K DECIMAL LOCATIONS AND OPERATES UNDER THE BASIC CONTROL MONITOR. THE DISTRIBUTED SOURCE TAPE INCLUDES ALL NECESSARY CONTROL CARDS FOR RUNNING UNDER RAD-75 BCH. IN ORDER TO RUN IT IS NECESSARY TO ISYST C,9TXYZ (WHERE X, Y, AND Z ARE VALID IOP, CHANNEL, AND UNIT NOS RESPECTIVELY). IN ORDER TO KEEP THIS PROGRAM FROM EXCEEDING 32K MEMORY, IT IS NECESSARY TO COMPILE IT USING THE FORTRAN-H VERSION B COMPILER. INCLUDED ON THE DISTRIBUTED SOURCE TAPE ARE DATA FOR THE SAMPLE PROBLEM SHOWN IN THE PROGRAM DESCRIPTION.
- 890147 SIGMA 5/7 BATCH MONITOR CROSS REFERENCE GENERATOR
AUTHOR: JAMES R. GREENWOOD RUTGERS NUCLEAR PHYSICS LAB
ABSTRACT:
THIS PROGRAM GENERATES A CROSS REFERENCE DICTIONARY OF DEFINITIONS AND REFERENCES WHICH APPEAR IN PROGRAMS IN THE SIGMA 5/7 BATCH MONITOR. THE MODIFICATION OF THE MONITOR THEN CAN BE ACCOMPLISHED, KNOWING EXACTLY HOW IT IS INTERCONNECTED.
- 890157 SIGMA 5/7 CROSS REFERENCE SYMBOL LISTING PROG.
AUTHOR: UC BERKELEY-SPACE SCIENCES LAB J. MC CONNEL
ABSTRACT:
THIS PROGRAM LISTS ALL INTERNAL AND EXTERNAL SYMBOLS AND WHERE THEY ARE REFERENCED WITHIN A SYMBOL DECK.
COMMENTS:
PROGRAM RUNS UNDER BCH.
- 890311 SIGMA 5/7 DEBUG ROUTINE-ON-LINE
AUTHOR: R. FALZONE - XDS
ABSTRACT:
ASSISTS IN THE DEBUGGING OF LARGER PROGRAMS. IT ENABLES THE USER TO DISPLAY AND/OR ENTER DATA INTO MEMORY, VIA KEYBOARD PRINTER, TO SEARCH WITHIN LIMITS FOR KNOWN DATA, TO ANALYZE AND EXECUTE INSTRUCTIONS AT ANY MEMORY LOCATION, TO ALTER MEMORY, AND TO TRACE.
COMMENTS:
USES 350 LOCATIONS.

- 890312 SIGMA 5/7 FOCAL, FORTRAN-CALCULATOR, DESK CALC.
AUTHOR: J.D. LARSON, BROOKHAVEN NATIONAL LABORATORIES
ABSTRACT:
PERFORMS ARITHMETIC COMPUTATIONS USING FORTRAN STATEMENTS ENTERED DIRECTLY FROM A KEYBOARD DEVICE. IN ADDITION, FOCAL ASSIMILATES AND STORES CONTROL, BRANCHING, AND ARITHMETIC
- 890319 SIGMA 5/7 REGISTRATION STATISTICS PACKAGE
AUTHOR: UNIVERSITY OF NEVADA
ABSTRACT:
THIS REGISTRATION PACKAGE PERFORMS VARIOUS SORTS ON THE REGISTRATION INFORMATION AND PRINTS SELECTIVE REPORTS. EACH PROGRAM IS STAND ALONE!
COMMENTS:
APPENDIX A CONTAINS THE GLOSSARY OF PROGRAM TERMS. APPENDIX B CONTAINS THE FORMATS FOR VARIOUS DATA CARDS.
- 890321 SIGMA 5/7 CN704852 MOD0FORTIV COMP BCD CONVERSION
AUTHOR: P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
PROVIDES PROPER FORTRAN BCD CONVERSION SO THAT OLD BCD DECKS MAY BE UPDATED WITH EBCDIC CARDS
- 890322 SIGMA 5-9 FREE FIELD FORTRAN IV INPUT SUBROUTINE
AUTHOR: P.C. ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEW YORK
ABSTRACT:
FREEFLD FORTRAN PROVIDES A CONVENIENT MEANS OF READING ALPHANUMERIC DATA IN A FREE FIELD FORM AND ENCODING THE INPUT INTO CHARACTER STRINGS, INTEGERS AND DOUBLE PRECISION VALUES
- 890323 SIGMA 5/7 FORTRAN IV KEYED FILE I/O ROUTINES
AUTHOR: P.C. ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEW YORK
ABSTRACT:
USED TO READ/WRITE KEYED FILES FROM RAD. MODIFIED FROM BUFFERIN/BUFFEROUT ROUTINES
- 890324 SIGMA 5-9 FORTRAN IV BCD-EBCDIC CONVERSION SUBR.
AUTHOR: P.C. ROGERS BROOKHAVEN NATIONAL LABORATORY UPTON NEW YORK
ABSTRACT:
THIS ROUTINE CONVERTS BYTE STRINGS FROM BCD TO EBCDIC (BTOE) OR EBCDIC TO BCD (ETOB)
- 890325 SIGMA 5/7 TIME AND/OR DATE SUBROUTINE
AUTHOR: S. WHEELER, UNIVERSITY OF TEXAS AT ARLINGTON
ABSTRACT:
THIS THREE-ENTRY-POINT SUBROUTINE ALLOWS THE XDSFORTRAN IV CALLER TO OBTAIN THE CURRENT TIME, DATE, OR BOTH IN A PRINTABLE (I.E ALPHANUMERIC) FORM BY CALLING THE APPROPRIATE ENTRY POINT.
COMMENTS:
THE SUBROUTINE USES BPM SYSTEM PROCEDURES AND BYTE STRING INSTRUCTIONS.
- 890326 SIGMA 5/7 COMPRESSED SOURCE MERGE PROGRAM
AUTHOR: M. COBB, RCA INTERNATIONAL SERVICE CORP.
ABSTRACT:
THIS PROGRAM MERGES TWO SEPARATE COMPRESSED SOURCE VERSIONS OF A PROGRAM INTO A SINGLE OUTPUT. IT GENERATES A LISTING OF THE MERGED OUTPUT AT THE SAME TIME, NUMBERS THE LINES, AND FLAGS THOSE LINES THAT DIFFER BETWEEN THE TWO INPUT SOURCES. IT IS USED WHERE ONE LARGE BPM-CONFIGURATION COMPUTER SYSTEM SUPPORTS ANOTHER SMALLER BPM-CONFIGURATION AT A REMOTE SITE.
- 890327 SIGMA 7 INTEGER BOOLEAN FUNCTIONS FOR SIGMA 7
AUTHOR: DONALD V. HIRST, BROOKHAVEN NATIONAL LABORATORY.
ABSTRACT:
THESE FUNCTIONS MAY BE PLACED IN THE FORTRAN IV-H RUN TIME LIBRARY AND MAY BE CALLED UPON BY FORTRAN ROUTINES.
- 890363 SIGMA 5-9 SOL-SIMULATION-ORIENTED LANGUAGE
AUTHOR: R.B. COOK, G.J. HANSEN, G.E. HAYNAM - VANDERBILT UNIVERSITY
ABSTRACT:
SOL IS A GENERAL PURPOSE LANGUAGE PROCESSOR USEFUL FOR DESCRIBING AND SIMULATING COMPLEX SYSTEMS. INCLUDED ARE CAPABILITIES FOR EXPRESSING PARALLEL COMPUTATION, NOTATIONS FOR EMBEDDING RANDOM QUANTITIES WITHIN ARITHMETIC EXPRESSIONS AND AUTOMATIC MEANS FOR GATHERING STATISTICS ABOUT THE ELEMENTS INVOLVED. SOL IS CAPABLE OF DESCRIBING MODELS WITHOUT INCLUDING COMPUTER-ORIENTED CHARACTERISTICS. NECESSARY TO FORM THE SOL COMPILER, DCBS AND LIBRARIES IS ELEMENT (-28).
COMMENTS:
PROGRAM TYPE: PROCESSOR LANGUAGE: METASYMBOL SYSTEM: BPM/BTH STORAGE: DOCU. PAGES: 26

- 890366 SIGMA 5/7 LISP 1.5-LANGUAGE FOR LIST PROCESSING
AUTHOR:G. ROBERTSON, VANDERBILT UNIVERSITY
ABSTRACT:
LISP 1.5 IS A PROGRAMMING LANGUAGE SUITABLE FOR LIST PROCESSING BASED ON LISP-A MATHEMATICAL LANGUAGE DESIGNED FOR MEANINGFUL MANIPULATION OF LIST STRUCTURES. THE EXTENSIONS WHICH HAVE BEEN MADE, MAKE IT A PROGRAMMING LANGUAGE, ALSO 1.5 IS AN INTERPRETIVE SYSTEM. THERE ARE NO RESTRICTIONS IN THIS VERSION. THE PRIMARY USE HAS BEEN IN THE FIELD OF ARTIFICIAL INTELLIGENCE RESEARCH. IT IS USED FOR SYMBOLIC CALCULATIONS IN CALCULUS, MATHEMATICAL LOGIC, GAME PLAYING, AND OTHER FIELDS. THE LISP TAPE (-46) CONTAINS THE COMPLETE COMPRESSED SOURCE, THE ENTIRE SET OF RELOCATABLE OBJECT MODULES (-26) NECESSARY TO FORM THE LISP COMPILER AS WELL AS THE COMPLETE LISP BINARY SYSTEM (-86).
COMMENTS:
MEMORY REQUIREMENT FOR LISP 1.5 MAY BE ADJUSTED, UP OR DOWN, BY REASSEMBLING LISP WITH A CHANGE TO THE VALUE OF LISPSYS. ELEMENT 86 PRESENT OF LISP-BIAS 4400. NOTE: FILE 1-DIRECTORY ELEMENT 18- CONTAINS DIRECTORY OF THE USES DCBROM TO GENERATE ITS DATA CONTROL BLOCKS. INCLUDED IS INTERACTIVE LISP 1.5 (14K BTM LISP). ELEMENT 86 PRESENT OF LISP: BIAS 10800.
- 890383 SIGMA 5/7 MESSAGE WRITER FOR PRINTER OR TYPEWRITER
AUTHOR:K. JAMERSON - XDS
ABSTRACT:
PRINTS ANY MESSAGE ENTERED IN LARGE LENGTHWISE LETTERS ON THE LO DEVICE. IF A LINE PRINTER IS USED THE CARRIAGE CONTROL TAPE SHOULD BE REMOVED. THE MESSAGE WILL BE FORMED BY ASTERISK CHARACTERS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM STORAGE: DOC.PAGES:10 DATE:12/13/68.
- 890387 SIGMA 5/7 PLOT DRIVER PACKAGE
AUTHOR:G. SIMON, SACRAMENTO PEAK OBSERVATORY
ABSTRACT:
PLOT DRIVER PACKAGE FOR CALCOMP PLOTTER ON SIGMA 5/7. DRIVES THE PLOTTER FROM (X1,Y1) TO (X2,Y2) IN ANY OF 52 MODES. ALSO CONTAINS ENTRIES OF FSET, WHERE, CLRPLT, AND PEN. WRITTEN AS A FORTRAN IV-M CALLABLE SUBROUTINE FOR RBM MONITOR.
COMMENTS:
INCLUDED IS THE SOURCE DECK AND LISTING FOR THE FORTRAN IV-M PROGRAM WHICH PREPARED THE ATTACHED DATA SHEET TO ILLUSTRATE THE USE OF PLOT AND SYMBOL, THE LATER BEING A ROUTINE WHICH ANNOTATES CHARTS.
- 890388 SIGMA 5/7 SYMBOL LAB. ROUTINE FOR CALCOMP PLOTTER
AUTHOR:G. SIMON - SACRAMENTO PEAK OBSERVATORY
ABSTRACT:
LABELING ROUTINE FOR CALCOMP PLOTTER ON SIGMA 5/7. PLOTS VALUE OF ANY INTEGER OR REAL VARIABLE, OR ANY OF 150 SPECIFIED SYMBOLS, INCLUDING ENGLISH AND GREEK UPPER AND LOWER CASE ALPHABETIC, MATHEMATICAL, SCIENTIFIC, PUNCTUATION, AND COMMERCIAL CHARACTER. WRITTEN AS A FIV-M CALLABLE SUBROUTINE- REQUIRES SUBROUTINE PLOT
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 701 DOC.PAGES: 38 DATE: 1/7/70
- 890400 SIGMA 5-9 VUL2-VANDERBILT STATISTICAL PACKAGE
AUTHOR:VANDERBILT UNVIERSITY COMPUTER CENTER
ABSTRACT:
INCLUDED ARE TWO SYSTEMS: THE COMPUTER PROGRAMS FOR STATISTICAL ANALYSIS PACKAGE, PROVIDING 50 PROGRAMS AND ALLOWING THE USER A VERY COMPREHENSIVE CAPABILITY FOR ANALYSIS; AND THE MINISTAT SYSTEM, ALLOWING BTM TIME-SHARING USERS 10 SUCH PROGRAMS FOR JOBS WHICH ARE SUFFICIENTLY SMALL SO THAT ALL INPUT AND OUTPUT CAN OCCUR AT THE TELETYPE. A QUALITY ASSURANCE DECK IS PROVIDED (-74) WHICH PERMITS USERS TO CHECK ANY OR ALL PROGRAMS AGAINST TEST DATA.
NOTE: 800 VERSION OF FLAG COMPILER IS REQUIRED TO RUN THIS PACKAGE.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN IV SYSTEM:BPM/BTM DOCU.PAGES:106
- 890427 SIGMA 5-9 COCHRAN Q-TEST
ABSTRACT:
CALCULATES THE COCHRAN Q-TEST STATISTIC, GIVEN A MATRIX OF DICHOTOMOUS. ROW AND COLUMN TOTALS ARE CALCULATED, THEN THE Q-STATISTIC IS COMPUTED.
COMMENTS:
ORDERABLE UNDER COVER NUMBER 890400.
- 890428 SIGMA 5-9 PARTIAL CORRELATIONS
ABSTRACT:
COMPUTES PRODUCT MOMENT CORRELATIONS FOR UP TO 50 VARIABLES AND CALCULATES REGRESSION COEFFICIENTS, MULTIPLE CORRELATIONS AND PARTIAL CORRELATION COEFFICIENTS FOR ANY SPECIFIED COMBINATION OF THESE VARIABLES.
COMMENTS:
ORDERABLE UNDER COVER NUMBER 890400.
- 890429 SIGMA 5-9 FRIEDMAN TWO-WAY ANALYSIS
ABSTRACT:
PROGRAM READS EITHER RANKED OR UNRANKED DATA AND COMPUTES THE FRIEDMAN TWO-WAY ANALYSIS OF VARIANCE STATISTIC.
COMMENTS:
ORDERABLE UNDER COVER NUMBER 890400.

- 890430 SIGMA 5-9 KENDALL COEFFICIENT OF CONCORDANCE
 ABSTRACT:
 PROGRAM READS EITHER RANKED OR UNRANKED DATA AND COMPUTES THE KENDALL COEFFICIENT OF CONCORDANCE.
 COMMENTS:
 ORDERABLE UNDER COVER NUMBER 890400.
- 890431 SIGMA 5-9 MANN-WHITNEY U-TEST
 ABSTRACT:
 PROGRAM COMPUTES THE MANN-WHITNEY U STATISTIC TESTING WHETHER TWO INDEPENDENT GROUPS ARE FROM THE SAME POPULATION.
 COMMENTS:
 ORDERABLE UNDER COVER NUMBER 890400.
- 890432 SIGMA 5-9 MAXPLANE
 ABSTRACT:
 PROGRAM ACCEPTS A FACTOR MATRIX OR A FACTOR MATRIX WITH A TRANSFORMATION MATRIX AND ROTATES IT TO AN OBLIQUE SOLUTION. UP TO 100 VARIABLES IN THE FACTOR MATRIX AND 25 FACTORS ARE ACCEPTED.
 COMMENTS:
 ORDERABLE UNDER COVER NUMBER 890400.
- 890433 SIGMA 5-9 SCATTERGRAM HISTOGRAM
 ABSTRACT:
 PROGRAM WILL GENERATE BOTH SCATTERGRAMS FOR PAIRS OF VARIABLES AND HISTOGRAMS FOR SINGLE VARIABLES. THE NUMBER OF VARIABLES IS LIMITED TO 50 AND THE NUMBER OF VARIABLES TIMES THE NUMBER OF CASES MAY NOT EXCEED 20,000. THE PROGRAM WILL DO AS MANY AS 100 SCATTERGRAMS AND/OR HISTOGRAMS FROM ONE DATA SET.
 COMMENTS:
 ORDERABLE UNDER COVER NUMBER 890400.
- 890434 SIGMA 5/7 AXB LEAST SQUARES
 ABSTRACT:
 THIS PROGRAM PERFORMS A TWO-WAY ANALYSIS OF VARIANCE WITHOUT ASSUMPTIONS OF PROPORTIONACITY OR EQUALITY OF CELL FREQUENCY. THE METHOD OF LEAST SQUARES IS USED. EACH FACTOR MAY HAVE UP TO 50 LEVELS. THE MAXIMUM NUMBER OF ENTITIES PER ANALYSIS IS 1000. UP TO 5 DEPENDENT VARIABLES MAY BE PROCESSED AT THE SAME TIME.
 COMMENTS:
 CPSA01-890434 - ORDERABLE UNDER COVER NUMBER 890400.
- 890435 SIGMA 5/7 A*B*C - DESIGN ANALYSIS
 ABSTRACT:
 THIS PROGRAM ANALYZES DESIGNS HAVING TWO OR THREE (SUBJECTS) FACTORS. IT ACCEPTS UNEQUAL CELL FREQUENCIES AND MAKES ADJUSTMENTS BY THE METHOD OF UNWEIGHTED MEANS. THIS METHOD IS APPROPRIATE IF THE LOSS OF OBSERVATIONS IS ESSENTIALLY RANDOM AND NOT DIRECTLY RELATED TO THE EXPERIMENTAL VARIABLES (CF. MINER, P. 199F). EACH OF THE FACTORS MAY HAVE UP TO 25 LEVELS. THE MAXIMUM NUMBER OF DEPENDENT VARIABLES TO BE ANALYZED IS 100.
 COMMENTS:
 CPSA05-890435 - ORDERABLE UNDER COVER NUMBER 890400.
- 890436 SIGMA 5/7 A*B*S ANALYSIS OF VARIANCE
 ABSTRACT:
 A*B*S ANALYSIS OF VARIANCE
 COMMENTS:
 CPSA03-890436 - ORDERABLE UNDER COVER NUMBER 890400.
- 890437 SIGMA 5/7 ANOVA - A*S ANAL. OF VARIANCE HIGH SPEED
 ABSTRACT:
 THE PROGRAM CALCULATES AN ANALYSIS OF VARIANCE WITH ONE REPEATED MEASURE CONSISTING OF UP TO 10000 VALUES PER ENTITY. THE PROGRAM TAKES LESS RUNNING TIME THAN THE USUAL PROGRAM.
 COMMENTS:
 CPSA04-890437 - ORDERABLE UNDER COVER NUMBER 890400.
- 890438 SIGMA 5/7 ANOVA - CONVARIANCE
 ABSTRACT:
 THE PROGRAM TAKES UP TO EIGHT CONVARIATES AND PERFORMS AN ANALYSIS OF VARIANCE WITH UP TO 8 FACTORS ON THE SINGLE DEPENDENT MEASURE FOR UP TO 1500 ENTITIES PER CELL. THE PROGRAM TAKES TWO MINUTES FOR A SMALL PROBLEM AND 3 TO 4 FOR A MODERATE SIZE PROBLEM.
 COMMENTS:
 CPSA05-890438 - ORDERABLE UNDER COVER NUMBER 890400.
- 890439 SIGMA 5/7 ANOVA - GENERAL BALANCE DESIGNS
 ABSTRACT:
 THIS PROGRAM PERFORMS AN ANALYSIS OF VARIANCE ACCORDING TO A BALANCED DESIGN SUPPLIED BY THE USER. IT WILL NOT HANDLE INCOMPLETE DESIGNS (E.G., LATIN SQUARES). THE PROGRAM REQUIRES AN EQUAL NUMBER OF

890439 CONTINUED ON FOLLOWING PAGE

- 890439 ANOVA - GENERAL BALANCE DESIGNS (CONTINUED)
ENTITIES IN EACH OF THE SMALLEST CELL. THE TOTAL NUMBER OF 'BETWEEN SUBJECTS' FACTORS AND 'WITHIN SUBJECTS' FACTORS MUST NOT EXCEED EIGHT. SEVERAL SETS OF DEPENDENT VARIABLES INVOLVING THE SAME ENTITIES AND THE SAME DESIGN MAY BE PROCESSED ON THE SAME JOB.
COMMENTS:
CPSA08-890439 - ORDERABLE UNDER COVER NUMBER 890400.
- 890440 SIGMA 5/7 ANOVA - GENERALIZED ANALYSIS OF VARIANCE
ABSTRACT:
THIS IS A GENERALIZED ANALYSIS OF VARIANCE PROGRAM THAT WILL ANALYZE INCOMPLETE DESIGNS (LATIN OR GRECO-LATIN SQUARES) AND ANY FACTORIAL OR SINGLY NESTED DESIGN. AN EQUAL NUMBER OF SUBJECTS PER CELL IS REQUIRED. TO DESCRIBE A DESIGN, THE USER SUPPLIES AN APPROPRIATE MATRIX OF COEFFICIENTS FOR ORTHOGONAL COMPARISONS (HENCEFORTH REFERRED TO AS TREATMENT COEFFICIENTS) COVERING EVERY DEGREE OF FREEDOM FOR MAIN EFFECTS AS WELL AS INTERACTION TERMS IN THE DESIGN.
COMMENTS:
CPSA07-890440 - ORDERABLE UNDER COVER NUMBER 890400.
- 890441 SIGMA 5/7 ANOVA-LINDQUIST TYPE I ANAL. OF VARIANCE
ABSTRACT:
THIS PROGRAM ANALYZES UP TO 250 SCORES FOR EACH ENTITY IN UP TO 250 GROUPS.
COMMENTS:
CPSA08-890441 - ORDERABLE UNDER COVER NUMBER 890400.
- 890442 SIGMA 5/7 ANOVA - LINDQUIST TYPE III
ABSTRACT:
THE PROGRAM ANALYZES UP TO 100 SCORES FOR THE ENTITIES IN EACH OF BC GROUPS. THE A-DIMENSION IS A WITHIN SUBJECTS DIMENSION AND THE B AND C DIMENSIONS ARE BETWEEN SUBJECTS. UP TO 20 LEVELS OF B AND 50 LEVELS OF C ARE ALLOWED. THE NUMBERS OF ENTITIES PER CELL ARE ASSUMED TO BE PROPORTIONAL.
COMMENTS:
CPSA09-890442 - ORDERABLE UNDER COVER NUMBER 890400.
- 890443 SIGMA 5/7 ANOVA - LINDQUIST TYPE III EXTENDED
ABSTRACT:
THE PROGRAM ANALYZES UP TO 20 SCORES PER ENTITY IN EACH BCD GROUP. THE A DIMENSION IS A WITHIN ENTITIES (SUBJECTS) DIMENSION AND THE B, C, AND D DIMENSIONS ARE BETWEEN ENTITIES (SUBJECTS). THE PROGRAM PERMITS UP TO 20 LEVELS OF A, 10 LEVELS OF B, 8 LEVELS OF C, AND 50 LEVELS OF D. THE NUMBER OF ENTITIES IN EACH BCD GROUP IS UNLIMITED. THE NUMBER OF ENTITIES IN EACH CELL IS ASSUMED TO BE PROPORTIONAL. THE PROGRAM TAKES TWO MINUTES FOR A MODERATE SIZE PROBLEM.
COMMENTS:
CPSA10-890443 - ORDERABLE UNDER COVER NUMBER 890400.
- 890444 SIGMA 5/7 LINDQUIST TYPE IV ANALYSIS OF VARIANCE
ABSTRACT:
THE TYPE VI DESIGN INVOLVES C INDEPENDENT REPLICATIONS OF THE AXBXS DESIGN. EACH OF THE ENTITIES AT A GIVEN LEVEL OF THE C DIMENSION HAS A SCORE OF EACH AB COMBINATION OF THE A AND B DIMENSIONS. THE PROGRAM PERMITS UP TO 50 LEVELS OF A, 20 LEVELS OF B, AND 50 LEVELS OF C. NUMBER OF ENTITIES IS UNRESTRICTED.
COMMENTS:
CPSA11-890444 - ORDERABLE UNDER COVER NUMBER 890400.
- 890445 SIGMA 5/7 LINDQUIST TYPE EXT. ANAL. OF VARIANCE
ABSTRACT:
THIS DESIGN HAS 2 WITHIN MEASURES (A,B) AND 2 BETWEEN MEASURES (C,D). THE PROGRAM ACCEPTS UP TO 20 LEVELS OF A, 10 LEVELS OF B, 8 LEVELS OF C AND 50 LEVELS OF D. THE NUMBER OF SUBJECTS IN EACH OF THE CD GROUPS IS ASSUMED TO BE PROPORTIONAL. NUMBER OF ENTITIES IS UNRESTRICTED. THE PROGRAM TAKES TWO MINUTES FOR A MODERATE SIZED PROBLEM.
COMMENTS:
CPSA12-890445 - ORDERABLE UNDER COVER NUMBER 890400.
- 890446 SIGMA 5/7 SIMPLE RANDOMIZED
ABSTRACT:
MAY CONSIST OF UP TO 150 GROUPS WITH UP TO 2400 SCORES PER GROUP. THE NUMBER OF ENTITIES MAY BE UNEQUAL ACROSS GROUPS. UP TO FIVE DEPENDENT VARIABLES MAY BE READ FROM THE SAME ENTITY CARD. RUNNING TIME IS ABOUT HALF THAT GIVEN FOR THE AVERAGE PROGRAM.
COMMENTS:
CPSA13-890446 - ORDERABLE UNDER COVER NUMBER 890400.
- 890447 SIGMA 5/7 AUTOMATIC INTERACTION DETECTION (AID)
ABSTRACT:
THE PROGRAM SELECTS THE OPTIMAL COMBINATION OF CATEGORIES OF INDEPENDENT VARIABLES TO PREDICT ONE DEPENDENT VARIABLE.
COMMENTS:
CPSA14-890447 - ORDERABLE UNDER COVER NUMBER 890400.

- 890448 SIGMA 5/7 AUTO-B CROSS-LAG INTERCORRELATION
 ABSTRACT:
 THIS PROGRAM COMPUTES INTERCORRELATION MATRICES FROM UP TO 400 REPEATED MEASUREMENTS ON UP TO 75 VARIABLES. IT COMPUTES INTERCORRELATIONS FOR EACH DEGREE OF LAG FROM ZERO TO A LIMIT SPECIFIED BY THE USER.
 COMMENTS:
 CPSA15-890448 - ORDERABLE UNDER COVER NUMBER 890400.
- 890449 SIGMA 5/7 BINOMIAL SIGNIFICANCE TEST
 ABSTRACT:
 THE PROGRAM COMPUTES THE PROBABILITY THAT THE OBSERVED NUMBER (OR LESS) OF ENTITIES COULD HAVE FALLEN IN THIS ONE OF TWO POSSIBLE CATEGORIES BY CHANCE.
 COMMENTS:
 CPSA16-890449 - ORDERABLE UNDER COVER NUMBER 890400.
- 890450 SIGMA 5/7 CANONICAL ANALYSIS - CPSA
 ABSTRACT:
 THIS PROGRAM ACCEPTS TWO ENTITY-BY-VARIABLE MATRICES (SET A AND SET B) WHERE THE ENTITIES ARE THE SAME FOR EACH SET. AFTER COMPUTING CORRELATION MATRICES FOR EACH SET, THE PROGRAM CROSS-CORRELATES THE TWO SETS OF VARIABLES. THE PROGRAM THEN CALCULATES THE SETS OF WEIGHTS WHICH WILL YIELD TWO COMPOSITE VARIABLES (ONE FOR EACH SET OF ORIGINAL VARIABLES) WHICH WILL CORRELATE MAXIMALLY. THE MAXIMUM NUMBER OF VARIABLES FOR EACH SET CANNOT EXCEED 60. THE NUMBER OF ENTITIES IS NOT RESTRICTED.
 COMMENTS:
 CPSA17-890450 - ORDERABLE UNDER COVER NUMBER 890400.
- 890451 SIGMA 5-9 CORRELATIONS: PRODUCT MOMENT
 ABSTRACT:
 THE PROGRAM COMPUTES THE MEANS, STANDARD DEVIATIONS, AND THE PRODUCT-MOMENT CORRELATION MATRIX FOR UP TO 200 VARIABLES. N IS USED IN COMPUTING THE STANDARD DEVIATIONS RATHER THAN N-1. RANK, PHI, AND POINT-BISERIAL C COEFFICIENTS RESULT IF THE DATA ARE RANKS, DICHOTOMOUS-DICHOTOMOUS, OR DICHOTOMOUS-CONTINUOUS, RESPECTIVELY. THE NUMBER OF ENTITIES IS UNLIMITED.
 COMMENTS:
 CPSA18-890451 - ORDERABLE UNDER COVER NUMBER 890400.
- 890452 SIGMA 5-9 PRODUCT MOMENT / 200-300 VARIABLES
 ABSTRACT:
 THIS PROGRAM IS IDENTICAL TO CORRELATION: PRODUCT MOMENT EXCEPT THAT IT TAKES UP TO 300 VARIABLES, AND REQUIRES APPROXIMATELY 50K WORDS OF STORAGE. A 277-VARIABLE, 341-ENTITY PROBLEM TOOK 25 MINUTES WHEREAS A 277-VARIABLE, 4-ENTITY PROBLEM TOOK 8 1/2 MINUTES.
 COMMENTS:
 CPSA19-890452 - ORDERABLE UNDER COVER NUMBER 890400.
- 890453 SIGMA 5/7 CORRELATIONS WITH MISSING DATA
 ABSTRACT:
 THIS PROGRAM CALCULATES MEANS, STANDARD DEVIATIONS, AND PRODUCT MOMENT CORRELATION COEFFICIENTS FOR ALL ENTITIES WHICH HAVE THE DATA NEEDED FOR THAT CALCULATION. THE NUMBER OF ENTITIES UPON WHICH EACH STATISTIC IS BASED IS REPORTED. THE PROGRAM ACCEPTS A MAXIMUM OF 70 VARIABLES. THE NUMBER OF ENTITIES IS UNRESTRICTED
 COMMENTS:
 CPSA20-890453 - ORDERABLE UNDER COVER NUMBER 890400.
- 890454 SIGMA 5/7 CROSS TABS, CHI-SQUARES, CONTING. COEFF.
 ABSTRACT:
 THIS PROGRAM DETERMINES THE CHI-SQUARE, CONTINGENCY COEFFICIENTS AND THE TOTAL NUMBER OF SUBJECTS PER CATEGORY FOR UP TO 100 VARIABLES. FOR EACH DESIGNATED PAIR OF VARIABLES, A CROSSTABULATION TABLE IS PRINTED. THE TABLE'S DEGREES OF FREEDOM AND CONTINGENCY COEFFICIENT ARE ALSO PRINTED IF A MEANINGFUL CHISQUARE EXISTS (CF. SIEGEL, P. 110).
 COMMENTS:
 CPSA21-890454 - ORDERABLE UNDER COVER NUMBER 890400.
- 890456 SIGMA 5/7 CROSS CLASSIFICATION ANALYSIS
 ABSTRACT:
 THIS PROGRAM PRODUCES UP TO 72 CROSS-CLASSIFICATION TABLES IN TWO, THREE, OR FOUR DIMENSIONS. PERCENTAGES, CHI-SQUARES AND SEVERAL CORRELATION COEFFICIENTS (SEE OUTPUT) ARE REPORTED FOR ALL TABLES
 COMMENTS:
 CPSA22-890456 - ORDERABLE UNDER COVER NUMBER 890400.
- 890457 SIGMA 5/7 DISTRIBUTION ANALYSIS
 ABSTRACT:
 THIS PROGRAM PROVIDES DESCRIPTIVE STATISTICAL INFORMATION ABOUT EACH OF UP TO 120 VARIABLES. THE NUMBER OF ENTITIES IS UNRESTRICTED.
 COMMENTS:
 CPSA23-890457 - ORDERABLE UNDER COVER NUMBER 890400.

- 890458 SIGMA 5/7 EDIT DATA CARDS FOR ILLEG.PUNCHES & SEQ.
 ABSTRACT: THIS PROGRAM CHECKS DATA CARDS FOR NON-NUMERIC PUNCH CODES AND /OR CORRECT CARD SEQUENCE.
 COMMENTS: CP5A24-890458 - ORDERABLE UNDER COVER NUMBER 890400.
- 890459 SIGMA 5/7 ENTITY SELECTION
 ABSTRACT: TWO METHODS FOR SELECTING ENTITIES FROM A TOTAL ENTITY POOL ARE PROVIDED. THE USER SPECIFIES EITHER THE PROPORTION OF ENTITIES TO BE RANDOMLY SELECTED OR THE CRITERIA BY WHICH TO INCLUDE OR EXCLUDE AN ENTITY BY UP TO 1000 CRITERIA.
 COMMENTS: CP5A25-890459 - ORDERABLE UNDER COVER NUMBER 890400.
- 890460 SIGMA 5/7 FACTOR ANALYSIS (PRINCIPLE COMPONENTS)
 ABSTRACT: UP TO 50 PRINCIPAL COMPONENTS AND LATENT ROOTS ARE EXTRACTED FROM A CORRELATION MATRIX WITH UP TO 200 VARIABLES. THE USER MAY SPECIFY THE NUMBER OF FACTORS HE DESIRES OR HAVE THE PROGRAM USE GUTTMAN'S CRITERION TO DETERMINE THE NUMBER TO EXTRACT
 COMMENTS: CP5A26-890460 - ORDERABLE UNDER COVER NUMBER 890400.
- 890461 SIGMA 5/7 HIERARCHICAL TRANSFORMATION
 ABSTRACT: THE HIERARCHICAL TRANSFORMATION PROGRAM UTILIZES THE RESULTS FROM FACTOR ANALYSIS AND ROTATION PROGRAMS TO COMPUTE THE RELATIONSHIP OF EACH VARIABLE IN THE FIRST ORDER ANALYSIS TO EACH HIGHER ORDER FACTOR.
 COMMENTS: CP5A27-890461 - ORDERABLE UNDER COVER NUMBER 890400.
- 890465 SIGMA 5/7 FACTOR ANALYSIS WITH ROTATION
 ABSTRACT: BEGINNING WITH THE RAW DATA OR THE CORRELATION MATRIX, THE PROGRAM EXTRACTS THE PRINCIPAL COMPONENTS, PRINCIPAL AXIS FACTORS USING ESTIMATED COMMUNALITIES IMPROVED BY ITERATION, OR IMAGE ANALYSIS FACTORS.
 COMMENTS: CP5A28-890465 - ORDERABLE UNDER COVER NUMBER 890400.
- 890466 SIGMA 5/7 FACTOR EXTENSION
 ABSTRACT: THE LOADINGS OF UP TO 100 VARIABLES NOT IN THE ORIGINAL FACTOR ANALYSIS ARE COMPUTED FROM THE CORRELATIONS OF THESE NEW, EXTENSION VARIABLES WITH THE VARIABLES IN THE INITIAL FACTOR ANALYSIS. THE ORIGINAL FACTOR ANALYSIS MAY CONTAIN UP TO 300 VARIABLES AND 50 FACTORS. A SMALL PROBLEM TOOK LESS THAN 1/2 MINUTE TO RUN.
 COMMENTS: CP5A29-890466 - ORDERABLE UNDER COVER NUMBER 890400.
- 890467 SIGMA 5/7 FACTOR HYPOTHESIS TESTING
 ABSTRACT: GIVEN A HYPOTHESIZED REFERENCE VECTOR STRUCTURE, THE TRANSFORMATION MATRIX NECESSARY TO ROTATE THE ORTHOGONAL FACTOR MATRIX TO THE CLOSEST POSITION TO THE HYPOTHESIZED STRUCTURE IS FOUND. THE ERROR BETWEEN THIS CLOSEST FIT IS COMPARED TO THE ERROR FROM A SET OF RANDOM 'HYPOTHESIS' MATRICES. IF THE ACTUAL HYPOTHESIS STRUCTURE FITS THE FACTOR MATRIX SIGNIFICANTLY BETTER THAN THE RANDOM STRUCTURES, IT IS CONSIDERED TO BE CONFIRMED.
 COMMENTS: CP5A30-890467 - ORDERABLE UNDER COVER NUMBER 890400.
- 890468 SIGMA 5/7 FACTOR RELATING
 ABSTRACT: THE PROGRAM ROTATES UP TO 200 VARIABLE VECTORS OF ONE STUDY AS CLOSELY AS POSSIBLE TO THE SAME VARIABLE VECTORS FROM ANOTHER STUDY AND THEN COMPUTES THE CORRELATIONS BETWEEN TWO SETS OF UP TO 30 PRIMARY FACTORS. IT ALSO COMPUTES THE CORRELATIONS BETWEEN THE PAIRED VARIABLE VECTORS. THE PROGRAM ACCEPTS OBLIQUE FACTORS AS WELL AS ORTHOGONAL FACTORS.
 COMMENTS: CP5A31-890468 - ORDERABLE UNDER COVER NUMBER 890400.
- 890469 SIGMA 5/7 FACTOR ROTATION
 ABSTRACT: THIS PROGRAM READS AN ORTHOGONAL FACTOR MATRIX AND ROTATES THE FACTORS FIRST TO THE NORMALIZED ORTHOGONAL VARIMAX CRITERION, AND THEN, USING THE VARIMAX RESULTS AS A TARGET MATRIX, IT COMPUTES AN OBLIQUE SOLUTION USING THE PROMAX PROCEDURE. THE PROGRAM WILL ACCEPT UP TO 300 VARIABLES AND UP TO 30 FACTORS. A 277 VARIABLE BY 30 FACTOR PROBLEM TOOK 11-1/2 MINUTES WHILE A 24 VARIABLE, 4 FACTOR PROBLEM TOOK ONE MINUTE.
 COMMENTS: CP5A32-890469 - ORDERABLE UNDER COVER NUMBER 890400.

- 890470 SIGMA 5/7 FACTOR SCORING
 ABSTRACT:
 THIS PROGRAM COMPUTES FACTOR SCORES BY CALCULATING A WEIGHT FROM THE FACTOR STRUCTURE AND APPLYING IT TO A SET OF RAW SCORES. THE WEIGHT MATRIX IS CALCULATED ACCORDING TO ONE OF THREE PROCEDURES. (1) LEAST SQUARES (MULTIPLE CORRELATION) PROCEDURE, (2) SALIENT VARIABLE PROCEDURE (ALL VARIABLES CORRELATING WITH THE FACTOR ABOVE THE USER SPECIFIED LEVEL ARE WEIGHTED 1.0 AND ALL OTHERS 0.0), OR, (3) HIGHEST SALIENT VARIABLE PROCEDURE (THE HIGHEST FACTOR STRUCTURE LOADING FOR EACH VARIABLE IS GIVEN A WEIGHT OF 1.0, WHILE ALL OTHER LOADINGS FOR THAT VARIABLE ARE SET TO 0.0). THE PROGRAM ACCEPTS A MAXIMUM OF 100 VARIABLES AND 50 FACTORS.
 COMMENTS:
 CPSA33-890470 - ORDERABLE UNDER COVER NUMBER 890400.
- 890471 SIGMA 5/7 FILE PROCESSING
 ABSTRACT:
 THE FILE PROCESSING PROGRAM IS AN AID TO THE HANDLING OF NONCARD DATA FILES (E.G., TAPES). IT PLACES DATA FROM CARDS INTO A FILE, UPDATES, PRINTS, COPIES A SET OF FILES FROM ONE DEVICE TO ANOTHER, MERGES TWO FILES, MERGES TWO FILES WHILE CHECKING FOR INAPPROPRIATE ENTITY ID'S IN THE SECOND FILE, AND ORDERS THE RECORDS OF A FILE CONTAINING UP TO 1200 RECORDS ACCORDING TO THE FIRST ID CHARACTERS IN EACH RECORD. ALL RECORDS ARE ASSUMED TO BE UNBLOCKED, 80-COLUMN EBCDIC CARD IMAGES.
 COMMENTS:
 CPSA34-890471 - ORDERABLE UNDER COVER NUMBER 890400.
- 890472 SIGMA 5-9 CLUSTER ANALYSIS : HIERARCHICAL GROUPING
 ABSTRACT:
 THIS PROGRAM CLUSTERS A SET OF ENTITIES INTO SUCCESSIVELY FEWER GROUPS ON THE BASIS OF A LEAST SQUARES CRITERION WHICH COMBINES THOSE ENTITIES SEPARATED BY THE LEAST DISTANCE. DISTANCE IS DEFINED INITIALLY BY SUMMING THE SQUARED DIFFERENCES BETWEEN TWO ENTITIES FOR EACH VARIABLE.
 COMMENTS:
 CPSA35-890472 - ORDERABLE UNDER COVER NUMBER 890400.
- 890473 SIGMA 5/7 ITEM ANALYSIS
 ABSTRACT:
 THIS PROGRAM SCORES TESTS CONSISTING OF UP TO 500 CATEGORICAL (ONE CORRECT ANSWER, AS IN MULTIPLE CHOICE QUIZZES) OR INTERVAL (RANGE OF 'CORRECT' ANSWERS, AS IN RATING SCALES) ITEMS. IT ALSO CALCULATES ITEM AND TEST STATISTICS AND WILL CORRELATE EACH ITEM WITH UP TO 5 ADDITIONAL CRITERIA.
 COMMENTS:
 CPSA36-890473 - ORDERABLE UNDER COVER NUMBER 890400.
- 890474 SIGMA 5/7 MULTIPLE CLASSIFICATION ANALYSIS
 ABSTRACT:
 MULTIPLE CLASSIFICATION ANALYSIS IS A TECHNIQUE FOR EXAMINING THE INTER-RELATIONSHIPS BETWEEN SEVERAL PREDICTOR VARIABLES AND A DEPENDENT VARIABLE WITHIN THE CONTEXT OF AN ADDITIVE MODEL.
 COMMENTS:
 CPSA37-890474 - ORDERABLE UNDER COVER NUMBER 890400.
- 890475 SIGMA 5/7 MULTIPLE DISCRIMINANT ANALYSIS
 ABSTRACT:
 A MULTIPLE DISCRIMINANT ANALYSIS IS CALCULATED ON A SET OF UP TO 85 VARIABLES FOR TWO TO 50 PREVIOUSLY DEFINED GROUPS. RUNNING TIME IS SLIGHTLY LONGER THAN THAT OF THE USUAL PROGRAM.
 COMMENTS:
 CPSA38-890475 - ORDERABLE UNDER COVER NUMBER 890400.
- 890476 SIGMA 5/7 MULTIPLE REGRESSION ANALYSIS
 ABSTRACT:
 THIS PROGRAM READS EITHER RAW SCORES OF A CORRELATION MATRIX AND PERFORMS ONE OR MORE MULTIPLE REGRESSION ANALYSES USING SUBSETS OF VARIABLES SPECIFIED BY THE USER. F-TESTS BETWEEN THE DIFFERENT REGRESSION MODELS MAY ALSO BE COMPUTED.
 COMMENTS:
 CPSA39-890476 - ORDERABLE UNDER COVER NUMBER 890400.
- 890477 SIGMA 5/7 MULTIPLE REGRESSION ANALYSIS, STEPWISE
 ABSTRACT:
 INDEPENDENT VARIABLES ARE ADDED INTO OR DELETED FROM THE REGRESSION EQUATION ACCORDING TO THEIR RELATIVE IMPORTANCE AS JUDGED BY THEIR INCREMENTAL EFFECT ON THE MULTIPLE CORRELATION COEFFICIENT. OPTIONS ARE PROVIDED TO TRANSFORM VARIABLES, TO CREATE NEW VARIABLES, AND TO OMIT THE CONSTANT TERM FROM THE EQUATION.
 COMMENTS:
 CPSA40-890477 - ORDERABLE UNDER COVER NUMBER 890400.
- 890478 SIGMA 5/7 SIMULTANEOUS LINEAR EQUATIONS
 ABSTRACT:
 THE PROGRAM READS SYSTEMS OF UP TO 40 LINEAR EQUATIONS IN MATRIX FORM AND COMPUTES THE UNKNOWN'S. CROUT'S VARIATION OF THE GAUSSIAN ELIMINATION METHOD IS USED.
 COMMENTS:
 CPSA41-890478 - ORDERABLE UNDER COVER NUMBER 890400.

- 890479 SIGMA 5/7 TEST SCORING
 ABSTRACT:
 THE PROGRAM READS UP TO 800 ITEM RESPONSES PER ENTITY, SCORES THEM FOR UP TO 50 SCALES, AND CALCULATES A SCORE FOR EACH ENTITY ON EACH SCALE. TOTAL NUMBER OF ITEMS MULTIPLIED BY THE NUMBER OF SCALES CANNOT EXCEED 5000.
 COMMENTS:
 CPSA42-890479 - ORDERABLE UNDER COVER NUMBER 890400.
- 890480 SIGMA 5/7 TRANSGENERATION
 ABSTRACT:
 THIS PROGRAM WILL TRANSFORM OR TRANSGENERATE UP TO 99 VARIABLES PER SUBJECT. EITHER A SPECIFIED SUBSET OF VARIABLES OR ALL VARIABLES CAN BE TRANSGENERATED.
 COMMENTS:
 CPSA43-890480 - ORDERABLE UNDER COVER NUMBER 890400.
- 890481 SIGMA 5/7 T-TESTS AND F-RATIOS
 ABSTRACT:
 THIS PROGRAM COMPUTES T-TESTS AND F-RATIOS FOR EITHER RELATED OR UNRELATED DATA FOR UP TO 500 VARIABLES.
 COMMENTS:
 CPSA44-890481 - ORDERABLE UNDER COVER NUMBER 890400.
- 890531 SIGMA 5/7 FILE EDITOR (METAMEDIA)
 AUTHOR: XEROX
 ABSTRACT:
 TO ALLOW THE USER TO PERFORM A VARIETY OF FILE-EDITING TASKS CONVERTING DATA TYPES OF SOURCE, COMPRESSED AND BINARY. IT ALLOWS BLOCKING AND DEBLOCKING, COMPRESSION AND DECOMPRESSION, UPDATING BY FILE, RECORD, AND/OR CONTENT OF RECORDS, AND VERIFICATION OF COPIES.
 COMMENTS:
 PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BCM
 STORAGE:3800 WORDS DOC.PAGES:89 DATE:11/26/89
 ADDITIONAL INFORMATION:THIS PROGRAM WILL RUN UNDER BCM, RBM2 AND BPM.
- 890532 SIGMA 5/7 JANUS TIMESHARING SYSTEM
 AUTHOR:MICHIGAN STATE
 ABSTRACT:
 JANUS IS A TIMESHARED OPERATING SYSTEM. PERMITS SIMULTANEOUS EXECUTION OF TASKS, INVOKED BY THE OPERATOR FROM A LIBRARY OF TASKS ON THE DISC. TASKS CONSIST OF JBCH (JANUS BASIC CONTROL MONITOR), JFCH (JANUS FILE CONTROL MONITOR), AND JPCH (JANUS PROCESS CONTROL MONITOR).
 COMMENTS:
 PROGRAM TYPE:SYSTEM LANGUAGE:SYMBOL* SYSTEM:BPM DOCU.PAGES:38 DATE:12/29/89. ADDITIONAL INFORMATION:*JANUS MUST BE ASSEMBLED USING MODIFIED SYMBOL FILE 5 JANUS SOURCE MAG. TAPE. THIS IS DUE TO THE IMPL. OF THE LIST/NOLIST OPTIONS IN JANUS SYMBOL AND THE USE OF THEM IN THE JANUS SOURCE ELEMENTS.
- 890533 SIGMA 7 GORDO TIME SHARED GRAPHICS FACILITY
 AUTHOR:G. B ANDERSON, LAWRENCE RADIATION LABORATORY
 ABSTRACT:
 GORDO PROVIDES INTERACTIVE GRAPHIC SERVICE TO UP TO 8 USER TERMINALS. EACH TERMINAL SHOULD CONSIST OF A CRT WITH KEYBOARD, FUNCTION BUTTONS, AND A LIGHT PEN. THE SYSTEM PROVIDES HIGH RATES OF INTERACTION FOR A SMALL NUMBER OF USERS AND A HIGH DEGREE OF SECURITY IN HANDLING USER FILES AND PROCESSES.
 COMMENTS:
 PROGRAM TYPE:SYSTEM LANGUAGE:SYMBOL DOCU.PAGES:44 DATE 12/89 SYSTEM WILL RUN IN A 32K SIGMA 7
- 890534 SIGMA 5/7 PHORMER - DATAFORM GENERATOR BY PLOTTER
 AUTHOR:CHELL - P. HUGHES MD ANDERSON HOSPITAL
 ABSTRACT:
 PHORMER ENABLES THE PROGRAMMER TO SPECIFY THE FORM IN COMPUTER TERMS FROM A ROUGH SKETCH. THESE SPECIFICATIONS SERVE AS INPUT TO PHORMER WHICH THEN PLOTS THE FINISHED FORM ON THE CALCOMP PLOTTER. THIS PLOT CAN BE DIRECTLY PHOTOCOPIED AND REPRODUCED FOR IMMEDIATE USE.
 COMMENTS:
 LANGUAGE: FORTRAN IV-H, SYSTEM: RBH.
- 890543 SIGMA 5/7 TIC TAC TOE -3D
 AUTHOR: XEROX
 ABSTRACT:
 THE PROGRAM PLAYS 3-D TIC TAC TOE WITH A HUMAN OPPONENT. IT WILL OPERATE UNDER ANY SYSTEM SUPPORTING FORTRAN IVH, INCLUDING BTH.
 COMMENTS:
 PROGRAM TYPE:GAME LANGUAGE:FORTRAN IV SYSTEM:BCM,RBH,BTH DOCU.PAGES:10 DATE:01/23/70 ADDITIONAL INFORMATION:MODIFIED FROM 1620 PROGRAM.

- 890544 SIGMA 5/7 UTILITY PACKAGE 'HELP'
AUTHOR:R. I. MUSTVEDT - XDS
ABSTRACT:
PROVIDES AN EASILY EXPANDED COLLECTION OF UTILITY ROUTINES, SHARING A COMMON EXECUTIVE ROUTINE AND MANY SUBROUTINES. THE ROUTINES INCLUDED IN THE BASIC PACKAGE ARE DESIGNED TO FACILITATE THE PREPARATION, LOADING, DEBUGGING AND DUMPING OF MACHINE LANGUAGE PROGRAMS. THIS IS A STAND-ALONE PACKAGE.
- 890545 SIGMA 5-9 FORTRAN CROSS REFERENCE PROGRAM
AUTHOR:P. SHERROD, VANDERBILT UNIVERSITY
ABSTRACT:
CROSS IS A UTILITY PROCESSOR WHICH WILL PRODUCE A CROSS REFERENCE LISTING OF A FORTRAN SOURCE PROGRAM. ALL VARIABLES AND STATEMENT NUMBERS ARE LISTED IN ALPHA-NUMERIC ORDER WITH THE NUMBERS OF THE LINES ON WHICH THEY APPEAR. THE MAIN PROGRAM AND ANY SUBPROGRAMS ARE CROSS REFERENCED SEPARATELY. CROSS WILL ACCEPT THE EXTENDED FORTRAN LANGUAGE WHICH IS LEGAL TO XEROX EXTENDED FORTRAN-IV.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM AND UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL. THE 800 VERSION OF THIS PROGRAM CORRECTS A NUMBER OF BUGS WHICH CAUSED THE FIRST VERSION TO MISS SYMBOLS IN THE SOURCE PROGRAM. IT ALSO IMPLEMENTS AN OPTION WHICH ALLOWS THE CROSS REFERENCE TO BE PERFORMED WITH RESPECT TO EDIT KEYS IF THE FORTRAN SOURCE PROGRAM IS IN AN EDIT KEYED FILE. THE SIGMA 5 MUST HAVE MBS AND CVS SIMULATION.
- 890546 SIGMA 5-9 GETFILE
AUTHOR:SHERROD, NASHVILLE TENNESSEE - LIPFORD, XEROX
ABSTRACT:
GETFILE IS A UTILITY PROCESSOR WHICH MAY BE USED TO MOVE GROUPS OF FILES FROM LABELED TAPE TO DISC, FROM DISC TO LABELED TAPE, OR FROM ONE LABELED TAPE TO ANOTHER LABELED TAPE.
- 890547 SIGMA 5/7 SNAP TRANSLATOR
AUTHOR:M. P. BARNETT.
ABSTRACT:
THIS IS A FORTRAN PROGRAM WHICH TRANSLATES PROGRAMS WRITTEN IN SNAP(STYLIZED NATURAL PROCEDURAL LANGUAGE SNAP HAS DESIGNED AS A KIND OF BASIC ENGLISH TO APPEAL TO STUDENTS WHO USE WORDS RATHER THAN SYMBOLS AS THEIR NATURAL FORM OF EXPRESSION.
COMMENTS:
LANGUAGE: FORTRAN SYSTEM: BPM STORAGE: 23K
- 890548 SIGMA 5/7 FREE-FIELD EBCDIC INPUT ROUTINE
AUTHOR:M. COBB, RCA INTERNATIONAL
ABSTRACT:
THIS ROUTINE READS IN CARD IMAGES AND, USING A FREE-FIELD FORMAT, DECODES THE EBCDIC INTO MACHINE DOUBLEWORDS OF DATA.
- 890550 SIGMA 5/7 GENERALIZED EBCDIC OUTPUT ROUTINE
AUTHOR:M. COBB, RCA INTERNATIONAL
ABSTRACT:
THIS ROUTINE PERFORMS THE CONVERSIONS FROM MACHINE WORDS TO AN EBCDIC LINE IMAGE REPRESENTATION FOR LISTING AND OUTPUTS THE LINE TO A SPECIFIED DESTINATION.
- 890554 SIGMA 5/7 CARD LISTER USING SIG 5/7 (STAND-ALONE)
AUTHOR:D. GOEMOTZ, XDS
ABSTRACT:
ONE CARD PROGRAM THAT ALLOWS PROGRAMMER TO LIST EBCDIC CARDS ON LINEPRINTER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:BIN SYSTEM:STAND-ALONE
STORAGE:50 WORDS DOC PAGES:1 DATE:01/20/70.
- 890556 SIGMA 5/7 CARD DUPLICATOR - USES 7160 PUNCH
AUTHOR:G. GLICKMAN, XDS
ABSTRACT:
ONE CARD PROGRAM USING THE 7160 CARD PUNCH. PROGRAM WILL PUNCH DUPLICATION OF CARDS FOLLOWING IT IN CARD READER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:BIN CARD SYSTEM:STAND-ALONE
STORAGE:50 WORDS DOC.PAGES:2 DATE:01/20/70
- 890557 SIGMA 5/7 BIRD WHISTLING-SIMULATION
AUTHOR:B. BROWN, XDS
ABSTRACT:
SOUNDS LIKE MANY BIRDS WHISTLING, CHIRPING, ETC.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:MACHINE SYSTEM:STAND-ALONE
STORAGE:50 WORDS DOC.PAGES:1 DATE:01/09/70

- 890558 SIGMA 5/7 BUSINESS POLICY GAME
AUTHOR: DR. R.V. COTTER, UNIV. OF NEVADA
ABSTRACT:
THE PROGRAM CONSTITUTES A BUSINESS SIMULATION EXERCISE (COVERING UP TO 20 QUARTERLY PERIODS) WHICH PERMITS 3 TO 6 MANAGEMENT TEAMS TO COMPETE IN A HYPOTHETICAL OLOGOPOLISTIC INDUSTRY (LITTLE PRODUCT DIFFERENTIATION AMONG COMPETITORS). THE GAME REQUIRES MANAGEMENT DECISIONS REGARDING FINANCE, MARKETING, PRODUCTION, OTHER VARIABLES COVERING A WIDE SPECTRUM OF BUSINESS.
COMMENTS:
PROGRAM TYPE: PROG. LANGUAGE: FORTRAN IV DATE: 4/13/70
STORAGE: 18K DOC. PAGES: 8
- 890559 SIGMA 5/7 BTM/3 GASP II
AUTHOR: P. BECKER - XDS
ABSTRACT:
BTM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM WHICH MAY BE USED FROM A REMOTE TERMINAL ATTACHED TO A MINIMUM CONFIGURATION BATCH TIME SHARING SYSTEM. BTM/3 GASP II IS USED FOR DISCRETE SIMULATION, THE USER WRITES IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT ORIENTED VERSUS QUEING.
- 890560 SIGMA 5/7 BPM/3 GASP II SIMULATION PACKAGE
AUTHOR: P. BECKER - XDS
ABSTRACT:
BPM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM. IT IS USED FOR DISCRETE SIMULATION, THE USER WRITES IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT ORIENTED VERSUS QUEING.
- 890561 SIGMA 5/7 ANALOG DIGITAL SIMULATION PROGRAM
AUTHOR: R. MANNING, VANDERBILT UNIVERSITY
ABSTRACT:
ANALOG IS AN INTERPRETIVE SIMULATION PROGRAM WITH THE PROVISION FOR REPEATING PROBLEMS WITH NEW PARAMETERS. ANALOG IS USEFUL FOR SOLVING BOUNDARY VALUE AND OTHER TYPES OF ITERATIVE PROBLEMS. FOR SIMPLICITY ONLY THE COMMON ANALOG COMPUTER ELEMENTS ARE INCLUDED WITH PROVISION FOR THE USER TO ADD OTHER USEFUL DEVICES. OUTPUT INCLUDES PUNCHING, PLOTTING AND PRINTING.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 08/08/70
STORAGE: 30-45K WORDS DOC. PAGES: 43
- 890562 SIGMA 5/7 PAYROLL SYSTEM
AUTHOR: BUCKNELL UNIVERSITY
ABSTRACT:
THE PAYROLL SYSTEM CONSISTS OF THREE PARTS: PAYROLL RUN, TIME REPORTS, AND QUARTERLY REPORTS. THE PACKAGE CONTAINS 18 PROGRAMS, THREE OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN IV. CHECKS ARE PRODUCED, PAYROLL DISTRIBUTIONS PRINTED, CHECK REGISTERS PRINTED, TIME REPORTS, SOCIAL SECURITY REPORTS, LOCAL TAX REPORTS AND ALL ASSOCIATED RECORD KEEPING.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN/COBOL SYSTEM: BPM DOC. PAGES: 236 DATE: 05/15/70.
THIS PACKAGE CONTAINS CATALOG NUMBERS 890563 - 890578. DOUBLE PRECISION OPTION MUST BE USED ON ALL FORTRAN PROGRAMS.
- 890563 SIGMA 5/7 PAYROLL TOTALS CONFIRMATION
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
MAKES SURE THAT THE VALUES ON THE INPUT CARDS ARE EQUAL TO CHECKSUMS PROVIDED BY THE PAYROLL OFFICE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890564 SIGMA 5/7 GENERAL PAYROLL REGISTER
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
PRODUCES A CHECK REGISTER WITH THE INFORMATION THAT IS ON EACH CHECK PRINTED AND TOTALS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890565 SIGMA 5/7 PAYROLL ERROR CHECK
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
WHEN TOTALS FROM PAYROLL TOTALS ARE INCORRECT, THIS PROGRAM IS USED. IT PRINTS OUT SUMS (HOURS, GROSS) BY EMPLOYEE NUMBER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.

- 890566 SIGMA 5/7 PAYROLL CHECKS
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS PAYROLL CHECKS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890567 SIGMA 5/7 EXTRACT WAGE CARDS
AUTHOR: JOHN KOCH - BUCKNELL UNIVERSITY
ABSTRACT:
EXTRACTS PAYROLL WAGE CARDS AND 'P' CARDS PRIOR TO RUNNING THE PAYROLL DISTRIBUTION PROGRAM.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890568 SIGMA 5/7 PAYROLL DISTRIBUTION
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS THE STRAIGHT PAYROLL DISTRIBUTION AND THE BUILDING AND GROUNDS DISTRIBUTION
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890569 SIGMA 5/7 DEDUCTION REGISTER
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE DEDUCTION REGISTER FOR STANDARD AND SPECIAL DEDUCTIONS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890570 SIGMA 5/7 EXTRACT PAYROLL 5 CARDS
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
EXTRACTS PAYROLL '5' CARDS PRIOR TO RUNNING THE SPECIAL DEDUCTION REGISTER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890571 SIGMA 5/7 SPECIAL DEDUCTION REGISTER
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE SPECIAL DEDUCTION REGISTER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890572 SIGMA 5/7 INSERT DEPARTMENT NUMBER
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
PUTS DEPARTMENT NUMBER ON ALL CARDS PRIOR TO SORTING INTO DEPARTMENT NO. ORDER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890573 SIGMA 5/7 GENERATE PAYROLL TIME REPORTS
AUTHOR: HOMER ELDRIDGE - BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE BUILDING AND GROUNDS AND THE CLERICAL PAYROLL TIME REPORTS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890574 SIGMA 5/7 CREATE QUARTERLY REPORT RECORD
AUTHOR: MRS. CAROL VARGAS - BUCKNELL UNIVERSITY
ABSTRACT:
GENERATE 180 CHARACTER RECORD FOR USE IN QUARTERLY REPORTS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.

- 890575 SIGMA 5/7 PAYROLL QUARTERLY PROOF AND LOCAL TAX
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS OUT EITHER THE PAYROLL QUARTERLY PROOF OR THE LOCAL TAX REPORT
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890576 SIGMA 5/7 SOCIAL SECURITY QUARTERLY REPORT
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS THE QUARTERLY REPORT FOR SOCIAL SECURITY.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890577 SIGMA 5/7 PAYROLL PROOF TEST
AUTHOR:CARLTON DEPNER - BUCKNELL UNIVERSITY
ABSTRACT:
IS USED TO PROVE THAT THE INPUT CARDS ARE IN THE CORRECT ORDER.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 05/15/70.
PART OF PAYROLL SYSTEM CATALOG NO. 890562.
- 890581 SIGMA 5/7 SOP-STUDENT ONLINE PREREGISTRATION PROG.
AUTHOR: XEROX
ABSTRACT:
THE SOP PROGRAM IS DESIGNED TO PROVIDE A MEANS OF GATHERING STUDENT INFORMATION FOR COLLEGE AND UNIVERSITY CLASS REGISTRATION. INPUT IS VALIDITY CHECKED AT THE TIME OF ENTRY THEREBY ELIMINATING HUMAN ERROR SUCH AS COURSE CONFLICTS INCORRECT NAME SPELLING OR WRONG STUDENT NUMBER.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:SYM.,METASYM. SYSTEM:BPM/BTH STORAGE:1179 WORDS DOC.PAGES:11
DATE:05/29/70. SEE DESCRIPTION PRINTED FOR ADDITIONAL INFORMATION.
- 890582 SIGMA 5/7 BLDGRSE-S-O-P COURSE NAME PROGRAM
AUTHOR: XEROX
ABSTRACT:
PROGRAM BLDGRSE USES CARDS AS INPUT TO CREATE A FILE OF COURSES TO BE USED BY STUDENT ONLINE PREREGISTRATION (S-O-P PROGRAM)
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTH.
- 890583 SIGMA 5/7 BLDNAME - S-O-P STUDENT NAME PROGRAM
AUTHOR: XEROX
ABSTRACT:
BLDNAME USES CARDS AS INPUT TO CREATE A FILE OF STUDENT NAMES, ADDRESSES, AND TELEPHONE NUMBERS TO BE USED BY STUDENT ONLINE PREREGISTRATION PROGRAM (S-O-P PROGRAM).
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTH DATE:05/29/70.
- 890585 SIGMA 5/7 BPM SELF SCARE- CARD READER SYMB. START
AUTHOR:A.MITCHELL, BUCKNELL UNIVERSITY
ABSTRACT:
SELF SCARE AUTOMATICALLY INITIATES THE SCRA03 SYMBIONT DEVICE AFTER THE SYSTEM HAS RECEIVED A IFIM CARD WHEN THE START BUTTON IS DEPRESSED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTH
STORAGE:60 WORDS DOC.PAGES:1 DATE:06/01/70
ADDITIONAL INFORMATION:THIS PROGRAM WITH PATCH IS FOR DOI OPERATING SYSTEM.
- 890587 SIGMA 5/7 EBCDIC-HEXDUMP MAG TAPE / RAD FILE
AUTHOR:R. LOFQUIST, TRANSDATA CORP.
ABSTRACT:
PROGRAM DUMPS IN HEXIDECIMAL AND EBCDIC, MAG TAPE OR RAD FILES ON THE LISTING OUT DEVICE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:8500 WORDS DOC.PAGES:1
DATE:06/01/70. ADDITIONAL INFORMATION:PROGRAM USES M:E1, M:S1, M:L0 DCBS.
- 890588 SIGMA 5/7 DELETE RAD FILE PROGRAM
AUTHOR:R. LOFQUIST, TRANSDATA CORP.
ABSTRACT:
USED TO DELETE FILES IN THE CURRENT ACCOUNT BY FILE NAME, WITH A SINGLE CARD OR CARDS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM/BTH
STORAGE:20 WORDS DOC.PAGES:2 DATE:06/01/70

- 890589 SIGMA 5/7 FORTIV-SCATTER READ/WRITE MAG TAPE PACK.
AUTHOR:SACRAMENTO PEAK OBSERVATORY
ABSTRACT:
THIS PACKAGE CONTAINS FORTRAN-IV CALLABLE ROUTINES FOR READING A 7 OR 9 TRACK TAPE NOT WRITTEN BY A FORTRAN PROGRAM. THE PACKAGE IS BASED ENTIRELY ON BYTE TRANSFERS, NOT WORDS. BLOCKED TAPES, LONG RECORDS AND PACKED BINARY CAN BE HANDLED EASILY.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: METASYMBOL SYSTEM: BPM/BTH DATE: 06/02/70.
- 890590 SIGMA 5/7 PERSPECTIVE PLOT
AUTHOR: RICHARD BUSH, DENNIS RUFF - SACRAMENTO PEAK OBSERVATORY
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO PLOT SURFACES WHICH CAN BE EXPRESSED AS A FUNCTION OF TWO VARIABLES: $Y = F(X, Y)$. PERSPECTIVE INSTEAD OF CONTOUR PLOT, IS USED IN THIS PROGRAM GIVING THE PLANAR PROJECTION WHICH BEST REPRESENTS REAL OBJECTS AS VIEWED BY THE NAKED EYE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV-H SYSTEM: RBH/BPH.
- 890591 SIGMA 5/8/7 GENERAL LEDGER SYSTEM (COVER)
AUTHOR:BUCKNELL UNIVERSITY
ABSTRACT:
THE GENERAL LEDGER SYSTEM IS A RECORD OF ALL GENERAL LEDGER TRANSACTIONS OF THE UNIVERSITY. THE PACKAGE CONTAINS SIX PROGRAMS TWO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN IV. DISTRIBUTION TRIAL BALANCE, MONTHLY BUDGET STATEMENTS, GENERAL LEDGER TOTALS, GENERAL LEDGER PROOF, GENERAL LEDGER MONTHLY STATEMENT, AND OUTSTANDING CHECK LISTING ARE CREATED AND PRINTED BY THE SYSTEM.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN/COBOL SYSTEM:BPM DATE:09/11/70. THIS PACKAGE CONTAINS CATALOG NUMBERS 890592- 890597.
- 890592 SIGMA 5/8/7 DISTRIBUTION LEDGER TRIAL BALANCE DP0215
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PRODUCES A TRIAL BALANCE LISTING OF DISTRIBUTION LEDGER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG 890591
- 890593 SIGMA 5/8/7 MONTHLY BUDGET STATEMENTS (DP0222)
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS THE MONTHLY DEPARTMENTAL BUDGET STATEMENTS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-85 SYSTEM:BPM DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591
- 890594 SIGMA 5/8/7 GENERAL LEDGER TOTALS (DP0311)
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
COMPUTES THE TOTALS OF THE GENERAL LEDGER BY GENERAL LEDGER NUMBER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.
- 890595 SIGMA 5/8/7 GENERAL LEDGER PROOF
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES A PROOF LISTING FOR THE GENERAL LEDGER PRIOR TO LEDGER ENTRIES.
COMMENTS:
DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.
- 890596 SIGMA 5/8/7 GENERAL LEDGER MONTHLY STATEMENT (DP0316)
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE MONTHLY GENERAL LEDGER.
COMMENTS:
DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.
- 890597 SIGMA 5/8/7 OUTSTANDING CHECK LISTING (DP0512)
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES A LISTING OF THE AMOUNT OF OUTSTANDING CHECKS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM DATE:09/11/70. PART OF GENERAL LEDGER SYSTEM CATALOG NUMBER 890591.

890598 SIGMA 5-9 COBOL KEYED-FILE UTILITY SUBROUTINES
AUTHOR:R. EVANS, XEROX
ABSTRACT:
THIS A SERIES OF SUBROUTINES TO AID USERS OF COBOL-65. NINE SEPARATE ROUTINES COMPRISE THE PACKAGE; REL-FILE (890599), DELREC (890600), GETCOM (890601), GETKEY (890602), KEYSTART (890603), ADDSEQ (890604), PAPERCHG (890605), BDPSPRT (890606), BINARY SEARCH (890607). A DESCRIPTION OF EACH SUBROUTINE IS LISTED IN THE PAL MANUAL UNDER INDIVIDUAL CATALOG NUMBERS.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:META-SYMBOL DOCU.PAGES:13

890599 SIGMA 5/6/7 COBOL RELEASE FILES (RELFILES)
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS ROUTINE WILL CLOSE AND RELEASE DISC FILES TO THE MONITOR WHEN THE USER IS THROUGH WITH THEM.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:33 DOCU.PAGES:1

890600 SIGMA 5/6/7 COBOL SUBROUTINE DELREC
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS ROUTINE WILL DELETE RECORDS FROM KEYED FILES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:32 DOCU.PAGES: 1

890601 SIGMA 5/6/7 COBOL SUBROUTINE GETCOM
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS ROUTINE WILL PICK UP THE CURRENT DATE, TIME AND SWITCH SETTING AND INSERT SAME INTO THE WORKING STORAGE SECTION OF THE COBOL PROGRAM. THE ROUTINE WILL ALSO OPTIONALLY PICK UP THE CURRENT LINES PER PAGE FROM THE PRINTER DCB.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:81 DOCU.PAGES: 2

890602 SIGMA 5/6/7 COBOL SUBROUTINE GETKEY
AUTHOR:P. HIBBS, XDS
ABSTRACT:
THIS ROUTINE ELIMINATES THE NECESSITY OF DEFINING THE KEY VALUE AS PART OF THE DATA RECORD BY OBTAINING THE KEY VALUE OF THE LAST RECORD READ AND RETURNING THIS VALUE TO THE USER SPECIFIED WORKING AREA.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:35 DOCU.PAGES: 1

890603 SIGMA 5/6/7 COBOL SUBROUTINE KEYSTART
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS ROUTINE WILL POSITION A KEYED-FILE TO A SPECIFIC OR GENERIC KEY.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:52 DOCU.PAGES: 2

890604 SIGMA 5/6/7 COBOL ADD SEQUENTIAL SUBROUTINE
AUTHOR:P. HIBBS, XDS
ABSTRACT:
THIS ROUTINE WILL ADD A RECORD TO A KEYED FILE BEING PROCESSED SEQUENTIALLY.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:44 DOCU.PAGES:1

890605 SIGMA 5/6/7 COBOL SUBROUTINE PAPERCHG
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS ROUTINE WILL INSTRUCT THE OPERATOR TO CHANGE THE PAPER, CARRIAGE TAPE OR PUNCH CARD STOCK BETWEEN THE TIME THE LAST AND NEXT RECORDS ARE PROCESSED BY THE SYMBIONT.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:72 DOCU.PAGES:1

890606 SIGMA 5/6/7 COBOL SUBROUTINE BDPSPRT
AUTHOR:R. EVANS, XDS
ABSTRACT:
THIS PROGRAM WAS WRITTEN TO PROCESS PRINT-TAPES CREATED BY COBOL PROGRAMS USING THE SUBROUTINE 'PAPERCHG' #890605. ITS PURPOSE IS TO PRINT REPORTS (PREVIOUSLY WRITTEN TO TAPES) ON FORMS THAT NEED ALIGNMENT.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM: BPM

- 890607 SIGMA 5/6/7 COBOL SUBROUTINE BINARY SEARCH
AUTHOR:R. SPANGLER, XDS
ABSTRACT:
THIS ROUTINE SEARCHES A TABLE FOR AN ELEMENT WITHIN THE TABLE WHICH SATISFIES THE SPECIFIED CONDITION AND ADJUSTS THE ASSOCIATED INDEX NAME TO INDICATE THAT TABLE ELEMENT.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:44 DOCU.PAGES:2
- 890612 SIGMA 5/7 HIERARCHICAL TEXT EDITOR
AUTHOR:D. WINTER, XDS
ABSTRACT:
THE HIERARCHICAL TEXT EDITOR PROGRAM ALLOWS THE USER TO CREATE, UPDATE AND MANIPULATE VERY LARGE OR SMALL TEXT WHILE CREATING A FINAL DRAFT DOCUMENT. THE TEXT EDITOR CAN BE VERY USEFUL FOR GENERATING SYSTEM DISCUSSIONS AND USER GUIDES AS EXEMPLIFIED BY THE TEXT EDITORS OWN USER GUIDE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BTM STORAGE:6000 DOCU.PAGES:20
- 890613 SIGMA 7 PDUMP
AUTHOR:R. GARDNER, BUCKNELL UNIVERSITY
ABSTRACT:
THIS PROGRAM PRODUCES A HEXADECIMAL DUMP WITH AN EBCDIC INTERPRETATION OF THE 'MONDMP' ONTO 109 COLUMN PAPER. THIS PROGRAM IS A MODIFICATION OF THE BPM DUMP ROUTINE (PDUMP) USED TO LIST THE CORE-DUMP FILE CREATED BY THE RECOVERY ROUTINES. THE MODIFICATION COMPRESSES THE ORIGINAL 125 COLUMN OUTPUT TO 109 COLUMNS WHICH WILL FIT ON STANDARD 8-1/2 X 11 PAPER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:177 DOCU.PAGES:4
- 890614 SIGMA 5/7 RAD FILES IN/OUT
AUTHOR:J.F. MOLLENAVER-BELL LABS, S. ANTEBY-X.D.S.
ABSTRACT:
THIS PROCESSOR WRITES OUT ALL FILES IN THE CURRENT ACCOUNT TO MAGNETIC TAPE THROUGH THE M:EO DCB, OR READS IN ALL THE FILES ON A TAPE AND RESTORES THEM TO THE CURRENT ACCOUNT.
COMMENTS:
LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:7A HEX DOCU.PAGES:7. READS IN A TAPE WRITTEN UNDER ANOTHER ACCOUNT. ASSIGN M:E1 AS FOLLOWS: IASSIGN M:E1,(LABEL,X,ACCT)
- 890615 SIGMA 5/7 PROCEDURES FOR ASSEMBLY OF SIGMA 2 PROG.
AUTHOR:R. HUBER, RUTGERS UNIVERSITY
ABSTRACT:
SYSTEM SIG2 IS A SET OF META-SYMBOL PROCEDURES FOR ASSEMBLING SIGMA 2 PROGRAMS ON A SIGMA 5 OR 7. EACH SIGMA 2 WORD IS GENERATED AS A 32-BIT SIGMA 5/7 WORD WITH THE FIRST HALFWORD FILLED WITH ZEROES OR BLANKS. IT IS ASSUMED THAT THE TRANSMISSION ROUTINES WILL REMOVE THEM. SEVERAL RESTRICTIONS EXIST, COMPARED TO SIGMA 2 SYMBOL.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BPM DOCU.PAGES:11
- 890616 SIGMA 5/7 DISC DUMP PROGRAM
AUTHOR:R. HUBER, RUTGERS UNIVERSITY
ABSTRACT:
PROGRAM DUMPS RAD ADDRESS DISC TO MAGNETIC TAPE ADDRESS MT. DISC AND MT ARE EQU'S IN THE PROGRAM. PROGRAM WRITES AN IDENTIFICATION AND BOOTSTRAP ON TAPE. BOOTSTRAP ALLOWS RESTORE OF RAD FROM TAPE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:STAND-ALONE DOCU.PAGES:12
- 890617 SIGMA 5/6/7 DITTO - SIGMA UTILITY FILE MANIPULATOR
AUTHOR:R. JUGEL - I.M.T., W. SCHNECK - X.D.S.
ABSTRACT:
TO PROVIDE THE SIGMA USER WITH A DEVICE TO DEVICE CAPABILITY, UNDER BPM, SIMILAR TO THAT OF THE DEBE PROGRAM ON SYSTEM/360. A LIST OF THE AVAILABLE FUNCTIONS IS PROVIDED IN THE DOCUMENTATION.
(NOTE COMPATIBLE IBM FUNCTIONS.)
COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:BPM/BTM STORAGE:5000 DOCU.PAGES:12
LIST OF AVAILABLE FUNCTIONS IS PROVIDED IN DOCUMENTATION.
- 890620 SIGMA 5/6/7 ACCOUNTS PAYABLE SYSTEM (COVER)
AUTHOR:BUCKNELL UNIVERSITY
ABSTRACT:
THE ACCOUNTS PAYABLE SYSTEM CONSISTS OF FIVE PROGRAMS TWO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN IV. ACCOUNTS PAYABLE CHECKS, A/P CHECK REGISTER, TOTALS LISTING OF ACCRUED PAYABLE BY DUE DATE, VENDOR ADDRESSES OR ADDRESS LABELS AND A YEARLY LISTING OF VENDORS SHOWING AMOUNT OF BUSINESS DONE WITH EACH ARE PRODUCED BY THE ACCOUNTS PAYABLE SYSTEM.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN/COBOL SYSTEM:BPM DATE:09/11/70 DOCU.PAGES:32 THIS PACKAGE CONTAINS CATALOG NUMBERS 890621-890625.

PROGRAM AVAILABILITY LIST

SIGMA 5-9/550/980 CLASS 83
PROGRAM SUMMARIES

- 890621 SIGMA 5/6/7 YEARLY ACCOUNTS PAYABLE TOTALS (DP0112)
AUTHOR: J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
MAKES A YEARLY LISTING OF ALL VENDORS AND THE AMOUNT OF BUSINESS DONE WITH EACH.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 370 DATE: 09/11/70. PART OF
ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890620.
- 890622 SIGMA 5/6/7 ACCOUNTS PAYABLE VENDOR LABELS (DP0113)
AUTHOR: J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS LABELS OR LISTS OF ADDRESSES FOR ALL ACCOUNTS PAYABLE VENDORS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 428 DATE: 09/11/70. PART OF
ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890620.
- 890623 SIGMA 5/6/7 DUE DATE ACCRUED PAYABLES (DP0115)
AUTHOR: D. GAY, BUCKNELL UNIVERSITY
ABSTRACT:
MAKES LISTING OF DUE DATE ACCRUED PAYABLES WITH TOTALS BY DUE DATE AND FINAL TOTAL.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 727 DATE: 09/11/70. PART OF
ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890620.
- 890624 SIGMA 5/6/7 ACCOUNTS PAYABLE CHECK REGISTER (DP0118)
AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS THE ACCOUNTS PAYABLE CHECK REGISTER WITH ALL INVOICES FROM EACH COMPANY AND AMOUNT OF EACH CHECK
PRINTED.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-65 SYSTEM: BPM DATE: 09/11/70. PART OF ACCOUNTS
PAYABLE SYSTEM CATALOG NUMBER 890620.
- 890625 SIGMA 5/6/7 ACCOUNTS PAYABLE CHECKS (DP0120)
AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS ACCOUNTS PAYABLE CHECKS CONSISTENT WITH THE CHECK REGISTER, DP0118.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-65 SYSTEM: BPM DATE: 09/11/70. PART OF ACCOUNTS
PAYABLE SYSTEM CATALOG NUMBER 890620.
- 890626 SIGMA 5/6/7 ACCOUNTS RECEIVABLE SYSTEM (COVER)
AUTHOR: BUCKNELL UNIVERSITY
ABSTRACT:
THE ACCOUNTS RECEIVABLE SYSTEM IS USED TO BILL STUDENTS FOR TUITION, ROOM AND BOARD, LOANS, FEES, ETC..
THE TWO PROGRAMS IN THIS PACKAGE ARE IN XDS FORTRAN IV AND CREATE AN ACCOUNTS RECEIVABLE TRIAL BALANCE
FOR VERIFICATION AND PRINT THE BILLS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN IV SYSTEM: BPM DATE: 09/11/70 DOCU.PAGES: 23 THIS
PACKAGE CONTAINS CATALOG NUMBERS 890627-890628.
- 890627 SIGMA 5/6/7 ACCOUNTS RECEIVABLE TRIAL BALANCE-DP0718
AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS A TRIAL BALANCE OF ALL ACCOUNTS RECEIVABLE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 902 DATE: 09/11/70. PART OF
ACCOUNTS PAYABLE SYSTEM CATALOG NUMBER 890626.
- 890628 SIGMA 5/6/7 ACCOUNTS RECEIVABLE BILLING-DP0721
AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
WRITES THE ACCOUNTS RECEIVABLE BILLS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 1836 DATE: 09/11/70.
- 890629 SIGMA 5/6/7 BOOKSTORE SYSTEM (COVER)
AUTHOR: BUCKNELL UNIVERSITY
ABSTRACT:
THE BOOKSTORE SYSTEM CONSISTS OF FOUR PROGRAMS TWO OF WHICH ARE IN XDS COBOL AND THE REST IN XDS FORTRAN
IV. BOOKSTORE ACCOUNTS RECEIVABLE IS LISTED, BOOKSTORE STATEMENTS ARE PRINTED, DEPARTMENT CHARGES AND
TRIAL BALANCE ARE CREATED BY THE BOOKSTORE SYSTEM.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN/COBOL SYSTEM: BPM DATE: 09/11/70. THIS PACKAGE CONTAINS
CATALOG NUMBERS 890630-890633.

PROGRAM AVAILABILITY LIST

SIGMA 5-9/550/580 CLASS 83
PROGRAM SUMMARIES

- 890630 SIGMA 5/8/7 BOOKSTORE ACCOUNTS RECEIVABLE (DP0911)
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES A DETAILED LISTING OF ALL BOOKSTORE ACCOUNTS RECEIVABLE TRANSACTIONS FOR A DAY.
COMMENTS:
DATE:09/11/70 STORAGE:804. PART OF BOOKSTORE PACKAGE CATALOG NUMBER 890629
- 890631 SIGMA 5/8/7 BOOKSTORE STATEMENTS (DP0913)
AUTHOR:C. MUSSMAN, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE BILLING STATEMENTS FOR THE BOOKSTORE..
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-85 SYSTEM:BPM DATE:09/11/70. PART OF BOOKSTORE
PACKAGE CATALOG NUMBER 890629
- 890632 SIGMA 5/8/7 BOOKSTORE DEPARTMENT CHARGES (DP0916)
AUTHOR:A. SEAMAN, BUCKNELL UNIVERSITY
ABSTRACT:
GENERATES THE BOOKSTORE ACCOUNTS RECEIVABLE FOR UNIVERSITY DEPARTMENTS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-85 SYSTEM:BPM DATE:09/11/70. PART OF BOOKSTORE
SYSTEM CATALOG NUMBER 890629
- 890633 SIGMA 5/8/7 BOOKSTORE TRIAL BALANCE (DP0917)
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
PRINTS A TRIAL BALANCE OF BOOKSTORE ACCOUNTS RECEIVABLE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:855 DATE:09/11/70. PART OF
BOOKSTORE PACKAGE CATALOG NUMBER 890629
- 890634 SIGMA 5/8/7 ALUMNI SYSTEM
AUTHOR:BUCKNELL UNIVERSITY, LEWISBURG, PENNSYLVANIA
ABSTRACT:
ALUMNI CONSISTS OF A SET OF PROGRAMS WHICH CREATE, UPDATE AND MANIPULATE A DISC/MAG TAPE SYSTEM FOR
MAINTAINING AND CONTACTING THE ALUMNI STUDENT BODY OF A COLLEGE OR UNIVERSITY.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORT IV/METASYMSYSTEM:BPM STORAGE:8426 DOCU.PAGES:31
- 890635 SIGMA 5/8/7 ALUM1 ALUMNI UPDATING
AUTHOR:J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
ALUM1 PERFORMS THE UPDATING AND NEW RECORD CREATION ON THE ALUMNI FILE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:8426
- 890638 SIGMA 5/8/7 ALUM2 LONG FORM DIRECTORY
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
ALUM2 GENERATES A DIRECTORY OF ALL ALUMNI IN THE ALUMNI DATA FILE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:1591
- 890639 SIGMA 5/8/7 ALUM3 CLASS DIRECTORY
AUTHOR:J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
ALUM3 CONSISTS OF TWO PROGRAMS WHICH SELECT THE PEOPLE FROM SPECIFIC GRADUATING CLASSES AND PRINT OUT
CLASS DIRECTORIES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:973
- 890642 SIGMA 5/8/7 ALUM4 SELECTIVE ALUMNI
AUTHOR:K. LYON, BUCKNELL UNIVERSITY
ABSTRACT:
ALUM4 CREATES A TAPE FOR USE BY ALUMS OF ALUMNI ADDRESSES BY CLASS YEAR, ALUMNI CLUB CODE OR CURRICULUM.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:738
- 890643 SIGMA 5/8/7 ALUM5 HEAT TRANSFER ADDRESS TAPE
AUTHOR:K. LYON, BUCKNELL UNIVERSITY
ABSTRACT:
ALUM5 MAKES A HEAT TRANSFER TAPE OF ALUMNI ADDRESSES BY CLASS YEAR, ALUMNI CLUB CODE OR CURRICULUM.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:464

- 890644 SIGMA 5/6/7 SUBROUTINE DISCPROC
AUTHOR:A. MITCHELL, BUCKNELL UNIVERSITY
ABSTRACT:
DISPROC ALLOWS A FORTRAN PROGRAM TO CREATE AND ACCESS A KEYED RAD FILE.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:345
- 890645 SIGMA 5/6/7 REGISTRAR SYSTEM
AUTHOR:BUCKNELL UNIVERSITY-LEWISBURG, PENNSYLVANIA
ABSTRACT:
REGISTRAR SYSTEM IS A SERIES OF PROGRAMS WHICH HANDLE REPORT LISTINGS OF NON-ACADEMIC STATISTICS IN 13 DISTINCT WAYS SUCH AS ALPHABETICAL, BY SEX, BY BIRTHDATE, TYPE OF REGISTRATION AND 9 OTHERS. COURSE CONFLICTS ARE REDUCED; GRADE POINT AVERAGES ARE LISTED, A SUMMARY BY GEOGRAPHICAL DISTRIBUTION MAY BE MADE, AND CLASS ROSTERS LISTED FOR ALL COURSES WITH EITHER COURSE CREDIT OR GRADE EARNED.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORT/COBOL SYSTEM:BPM DOCU.PAGES:76
- 890646 SIGMA 5/6/7 ACST1 NON-ACADEMIC STATISTICS LISTINGS
AUTHOR:C. DEPNER/ J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
THE PURPOSE OF THESE PROGRAMS IS TO MAKE SELECTED LISTINGS BASED ON INFORMATION CONTAINED ON EACH STUDENT'S NON-ACADEMIC STATISTICS CARD.
COMMENTS:
PROGRAM TYPE:PROGRAMS LANGUAGE:FORTAN IV SYSTEM:BPM STORAGE:1950
- 890647 SIGMA 5/6/7 ACST2 FINAL GRADE REPORTS
AUTHOR:A. F. SEAMAN, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM GENERATES THE FINAL GRADE REPORTS FOR A SEMESTER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM:BPM
- 890648 SIGMA 5/6/7 ACST3 CLASS ROSTERS
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM LISTS THE STUDENTS SIGNED UP FOR ALL THE COURSES AT THE UNIVERSITY WITH EITHER THE COURSE CREDIT OR GRADE EARNED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM:BPM
- 890649 SIGMA 5/6/7 ACST4 HEAT TRANSFER STUDENT MASTER
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM GENERATES HEAT TRANSFER TAPES OF STUDENT ADDRESSES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTAN IV SYSTEM:BPM STORAGE:165
- 890650 SIGMA 5/6/7 ACST5 CLASS SCHEDULES
AUTHOR:A. F. SEAMAN/C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM GENERATES THE STUDENT CLASS SCHEDULES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM:BPM
- 890651 SIGMA 5/6/7 ACST7 PERMANENT RECORDS
AUTHOR:R. DROZIN/C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM GENERATES HEAT-TRANSFER MASTER FOR ADDITION TO STUDENT'S PERMANENT RECORD.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM:BPM
- 890652 SIGMA 5/6/7 ACST10 GRADE POINT AVERAGE LISTINGS
AUTHOR:J. KOCH, BUCKNELL UNIVERSITY
ABSTRACT:
ACST10 CONTAINS 19 PROGRAMS AND GENERATES OPA LISTINGS FOR SELECTED GROUPS.
COMMENTS:
PROGRAM TYPE:PROGRAMS LANGUAGE:FORTAN IV SYSTEM:BPM STORAGE:5000
- 890653 SIGMA 5/6/7 ACST12 GEOGRAPHICAL DISTRIBUTION SUMM.
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM DOES A GEOGRAPHICAL DISTRIBUTION SUMMARY FROM THE NON-ACADEMIC STATISTICS CARDS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTAN IV SYSTEM:BPM STORAGE:3055

- 890654 SIGMA 5/6/7 ACST32 COURSE CONFLICTS
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM REDUCES SCHEDULING OF CONFLICTING REQUIRED COURSES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:475
- 890655 SIGMA 5/6/7 ACST33 LANGUAGE LAB FILE MAINTENANCE
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM PUTS THE NEW LANGUAGE LAB USE CARDS INTO THE FILE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:673
- 890656 SIGMA 5/6/7 ACST34 LANGUAGE LAB WEEKLY REPORT
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM GENERATES THE LANGUAGE LAB WEEKLY REPORT SO PROFESSORS CAN TELL HOW MUCH EACH STUDENT USED THE LAB THAT WEEK.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM STORAGE:323
- 890657 SIGMA 5-9 CHARACTER MANIPULATION ROUTINES--FORTRAN
AUTHOR:B. MCKEON, S.U.R.C.
ABSTRACT:
THESE ROUTINES AND FUNCTIONS SIMPLIFY CHARACTER MANIPULATION IN FORTRAN. INCLUDED ARE ROUTINES TO MOVE, COMPARE, MODIFY STRINGS AND INDIVIDUAL BYTES. THEY ARE ESPECIALLY USEFUL IN BUSINESS APPLICATIONS. THERE ARE 27 ENTRY POINTS, INCLUDING SUBROUTINES TO 'GET' OR 'PUT' A CHARACTER, MOVE A STRING WITH VARIOUS EDITING, COMPARE TWO STRINGS, DETERMINE THE 'TYPE' OF CHARACTER TRANSLATE A STRING AND SEARCH A STRING.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:503 DOCU.PAGES:7
SIGMA 5 TIMINGS APPEAR AS COMMENTS WITHIN THE PROGRAM SOURCE CARDS.
- 890658 SIGMA 5-9 SUBROUTINE PUNCH (COL. BINARY)
AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
PUNCH CONVERTS 80 BYTES OF DATA IN EBCDIC FORMAT TO 120 BYTES OF BINARY FORMAT. THE ENTRY POINT UNPUNCH DECODES 120 BYTES OF COLUMN BINARY CARD CODE TO 80 BYTES OF EBCDIC.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.
BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
SUBROUTINES USED: LD BYTE, LDHWD, MBYTES CN 890662
FORTRAN OPTIONS S AND NMP ARE REQUIRED.
- 890659 SIGMA 5/6/7 UTILITIES.SINGLE CARD
AUTHOR:P. C. ROGERS,BROOKHAVEN NAT'L LABORATORY
ABSTRACT:
PACKAGE CONSISTS OF MANY ONE CARD UTILITIES FOR MOVING DATA FROM ONE MEDIUM TO ANOTHER. THEY ALL OPERATE AT THE SPEED OF THE SLOWER DEVICE. INCLUDED ARE: CR-TY, CR-LP, CR-9T CR-7T, TY-LP, TY-9T, 9T-LP, 9T-9T, 7T-9T ET AL. DEVICE ASSIGNMENTS ARE STANDARD BUT MAY EASILY BE CHANGED BY REASSEMBLING.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:META-SYMBOL SYSTEM:S/A DOCU.PAGES:2 ASSIGNMENTS: TY=1, LP=2, CR=3, 7T=AF0, 9T=AF0.
- 890660 SIGMA 5-9 CALS FOR FORTRAN USERS-MONITOR CAL1'S
AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
SIGMA MONITOR FUNCTION ROUTINE FOR CAL1 FUNCTIONS. FORMS FPT'S FOR AND EXECUTES THE SPECIFIED MONITOR CAL. INCLUDED ARE: CAL1.1, CAL1.2, CAL1.3, CAL1.4, CAL1.5, CAL1.6, CAL1.8, CAL1.9, CAL1.10.
THIS ROUTINE IS UPDATED THROUGH THE FO1 VERSION OF BPH.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY.
BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890661 SIGMA 5-9 SUBROUTINE DATETIME
AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
SUBROUTINE TO GET DATE AND TIME IN FOUR CONTIGUOUS WORDS IN A4 FORMAT.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:META-SYMBOL DOCU.PAGES:1

- 890662 SIGMA 5-9 PARTIAL WORD MANIPULATION OR TEST
AUTHOR:P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
THIS PACKAGE CONTAINS FUNCTIONS AND SUBROUTINES CALLABLE FROM FORTRAN WHICH ALLOW THE USER TO: LOAD BYTE (LDBYTE), LOAD HALFWORD (LDHWD), MOVE BYTES (MBYTES), TRANSLATE BYTES (TBYTES), COMPARE BYTE COUNT (CBYTES), CONVERT BCD-BIN(CONVA), CONVERT BIN TO BCD (CONVS), FINDS # OF BYTES LAST TRANSFERRED THROUGH OCB (RECLGT)
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:META-SYMBOL SYSTEM:BPM DOCU.PAGES:4
- 890665 SIGMA 5/6/7 LIBUPDAT FORTRAN IV LIBRARY UPDATE
AUTHOR:S. ANTEBY, XDS
ABSTRACT:
LIBRARY UPDATE ALLOWS A USER TO DELETE A GROUP OR GROUPS FROM THE :SYS ACCOUNT AND THEN REPLACE IT WITH ANOTHER
COMMENTS:
LANGUAGE:META-SYMBOL SYSTEM:BPM STORAGE:200 DOCU.PAGES:1
- 890668 SIGMA 5/7 BTH DEMO - GAMES PROGRAMS
AUTHOR: XEROX
ABSTRACT:
THIS IS A PACKAGE OF DEMO OR GAME PROGRAMS WHICH MAY BE RUN FROM A BTH USER TERMINAL. A FEW OF THE PROGRAMS ARE: CRAPS, BANDIT, BLAKJ--BLACKJACK, TICTAC--TIC-TAC-TOE.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:BASIC SYSTEM:BTH DOCU.PAGES:2 DATE:09/24/70.
- 890667 SIGMA 5-9 1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM
AUTHOR:G. WEBER, BUCKNELL UNIVERSITY
ABSTRACT:
ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OF OUTPUT DESIRED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM DOCU.PAGES:1
- 890672 SIGMA 5/6/7 SIGMA 2 BASIC SYMBOL ASSEMBLER
AUTHOR:K. S. BOOTH; E. LEWIS, UNIVERSITY OF ALABAMA
ABSTRACT:
THE SIGMA 2 BASIC SYMBOL ASSEMBLER WILL ASSEMBLE SIGMA 2 SOURCE CODE ON THE SIGMA 5/7 AND OUTPUT 1) A BINARY OBJECT PROGRAM ON PAPER TAPE, OR PUNCHED CARDS, WHICH CAN BE LOADED INTO THE SIGMA 2 AND 2) AN ASSEMBLY LISTING.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:RBM STORAGE:16120 DOCU.PAGES:3
- 890673 SIGMA 5/7 INTERACTIVE SNOBOL4
AUTHOR:E. SMITH, HARVARD UNIVERSITY
ABSTRACT:
INTERACTIVE SNOBOL4 WAS DEVELOPED FOR USE UNDER BTH. CONVERSATIONAL DEBUGGING FACILITIES INCLUDE BREAK-POINTS AND DIRECT STATEMENTS. THE LANGUAGE IS A NEARLY COMPLETE SUBSET OF BELL LABS SNOBOL4, AND THE SUBSYSTEM RUNS WELL IN A SMALL (10K) BTH USER AREA.
COMMENTS:
PROGRAM TYPE:SUBSYSTEM LANGUAGE:METASYMBOL SYSTEM:BTH STORAGE:18000 DOC.PAGES:7
FILE 1 OF THE TAPE (INSTRUCT) CONTAINS ASSEMBLY AND LOAD INSTRUCTIONS. ATTACHED DOCUMENTATION SHOWS THE DIFFERENCES FROM THE LANGUAGE DESCRIBED IN THE BOOK (THE SNOBOL4 PROGRAMMING LANGUAGE), BY GRISHOLD ET. AL..
- 890674 SIGMA 5/6/7 RELABL-SOURCE DECK RELABELER&REFORMATTER
AUTHOR:D. SMITH, XEROX COMPUTER SERVICES
ABSTRACT:
ALLOWS USER TO CHANGE SPECIFIED LABELS THROUGHOUT A PROGRAM AND TO HAVE A PROGRAM REFORMATTED INTO A FORM SUITABLE FOR PUBLICATION I.E. COLUMN 1,10,19, 36 FORMAT.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:8311 DOC.PAGES:5
- 890675 SIGMA 5/6/7 DUMP
AUTHOR:R. GARDNER, BUCKNELL UNIVERSITY
ABSTRACT:
THIS IS A MODIFICATION OF THE DUMP PROGRAM SECTION OF THE MONITOR OVERLAY SEGMENTS 'DEBUO' AND 'EXIT'. THE PURPOSE OF THE MODIFICATIONS IS TO PRODUCE A HEXIDECIMAL DUMP WITH AN EBCDIC INTERPRETATION OF THE HEX LINE AT THE RIGHT SIDE OF THAT LINE. THE OUTPUT IS COMPRESSED SUFFICIENTLY TO FIT ONTO 8 1/2 X 11 PAPER.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM DOC.PAGES:7. LISTED UPDATES ARE TO TAPE BCDD

- 890676 SIGMA 5-9 LINE PLOTTER PLOT SUBROUTINE
AUTHOR: J. SCHWARIZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION
ABSTRACT:
LINE PRINTER PLOT SUBROUTINE RUNS UNDER XDS FORTRAN IV AND PLOTS NUMERIC DATA USING A STANDARD LINE PRINTER AS THE OUTPUT DEVICE.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 11326 DOCU. PAGES: 3
DATE: 09/21/70. THE SUBROUTINE IS A MODIFIED VERSION OF 705380 WHICH RUNS UNDER XDS FORTRAN IV-M. ORDER 705380-11 FOR DOCUMENTATION AND SUBROUTINE USAGE.
- 890677 SIGMA 5/6/7 ADMISSIONS SYSTEM FOR SCHOOL ENROLLMENT
AUTHOR: BUCKNELL UNIVERSITY-LEHISBURG, PENNSYLVANIA
ABSTRACT:
THE ADMISSIONS SYSTEM CONTAINS 22 ROUTINES WHICH PROCESS ADMISSIONS APPLICATIONS FROM PROSPECTIVE NEW STUDENTS AND PRODUCE STATISTICAL STUDIES ON ADMITTED STUDENTS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: COBOL/FORTRAN SYSTEM: BPM (32K MINIMUM) DOCU. PAGES: 88
- 890678 SIGMA 5/6/7 ADMIS1-RECEIPT FORM
AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS1 PRINTS RECEIPT FORMS ACKNOWLEDGING THAT AN APPLICATION FROM A STUDENT HAS BEEN RECEIVED.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-85 SYSTEM: BPM
- 890679 SIGMA 5/6/7 ADMIS2-FILE FOLDER LABELS
AUTHOR: J. HERBERT/ L. GIBSON, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS2 PRINTS LABELS TO BE USED ON FILE FOLDERS IN THE ADMISSIONS OFFICE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-85 SYSTEM: BPM
- 890680 SIGMA 5/6/7 ADMIS3-APPLICANT ENVELOPES
AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS3 PRINTS NAMES AND ADDRESSES ON ENVELOPES TO BE SENT TO APPLICANTS WHEN DECISIONS HAVE BEEN REACHED ON THEIR APPLICATIONS.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM
- 890681 SIGMA 5/6/7 ADMIS5-HIGH SCHOOL COUNSELOR ENVELOPE
AUTHOR: R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS5 PRINTS NAMES AND ADDRESSES OF HIGH SCHOOL COUNSELORS ON ENVELOPES NOTIFYING THEM OF THE ACTION TAKEN ON APPLICANTS FROM THEIR SCHOOL.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-85 SYSTEM: BPM
- 890682 SIGMA 5/6/7 ADMIS6-LOAD AND UPDATE ADMISSION FILE
AUTHOR: C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS6 CREATES AND UPDATES RECORDS IN THE ADMISSIONS FILE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM
ADMIS6 CONSISTS OF 3 PARTS, ADMIS6ACD AND SUBROUTINES RADTAPE, MATCHFIL, TABS, AND SSLOAD.
- 890683 SIGMA 5/6/7 ADMIS10-ALUMNI CHILDREN LIST
AUTHOR: C. MUSSMAN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS10 MAKES A LIST OF THOSE APPLICANTS WHOSE PARENTS ARE ALUMNI OF BUCKNELL.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: COBOL-85 SYSTEM: BPM
- 890684 SIGMA 5/6/7 ADMIS11-APPLICANT PROFILE SHEET
AUTHOR: C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS11 PRINTS OUT A PROFILE SHEET ON EACH APPLICANT TO BE USED BY THE REVIEW COMMITTEE IN THE SELECTION PROCESS. THE PROFILE SHEET CONTAINS ALL OF THE INFORMATION THAT HAS BEEN RECORDED FOR THE APPLICANT.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN IV SYSTEM: BPM

PROGRAM AVAILABILITY LIST

- 890685 SIGMA 5/6/7 ADMIS13-WEEKLY DISTRIBUTION
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS13 GIVES WEEKLY TOTALS OF APPLICANTS BY DEGREE AND SAT SCORES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890686 SIGMA 5/6/7 ADMIS14-HIGH SCHOOL LIST
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS14 CREATES A LIST OF APPLICANTS BY STATE AND SECONDARY SCHOOL.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
ADMIS14 CONSISTS OF 2 PROGRAMS 14A-B AND SUBROUTINES ADMACT, ADMCURR, ADMRELA, ADMVIEW, AND NEWPAGE
- 890687 SIGMA 5/6/7 ADMIS15-SELECTIVE ENVELOPES/LABELS
AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS15 ALLOWS ENVELOPES AND LABELS TO BE PRINTED OUT FOR SELECTED GROUPS OF APPLICANTS I.E. WAITING LIST, ACCEPTED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL-65 SYSTEM:BPM
- 890688 SIGMA 5/6/7 ADMIS16-SELECTIVE LISTINGS
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS16 PRINTS ALPHABETICAL LISTS BY SELECTED ITEMS OF THE ADMISSIONS RECORD.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
SUBROUTINE ADMACT AND PROGRAM ADMIS27 REQUIRED. ADMIS16 CONSISTS OF 5 PROGRAMS ADMIS16B-F.
- 890689 SIGMA 5/6/7 ADMIS17-SHORT WEEKLY REPORTS
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS17 CREATES SHORT WEEKLY REPORTS, STATE TOTALS AND DISTRIBUTIONS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890690 SIGMA 5/6/7 ADMIS19-STATISTICS BY STATE
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS19 PRINTS STATISTICS OF ACTION TAKEN ON APPLICANTS BY STATE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890691 SIGMA 5/6/7 ADMIS20-PROFILE BY SAT AND RANK
AUTHOR:C. VARGAS, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS20 PRINTS MATRICES OF SAT SCORES VERSUS CLASS RANK (TENTHS) BROKEN DOWN BY ACTION CODE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890692 SIGMA 5/6/7 ADMIS21-APPLICANT ACTIVITIES TOTALS
AUTHOR:P. KAUFHOLD, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS21 GIVES A TALLY OF APPLICANT INTERESTS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890693 SIGMA 5/6/7 ADMIS22-ACTIVITY INTEREST ADDRESSES
AUTHOR:R. DROZIN, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS22 PROVIDES A LIST OF NAMES AND ADDRESSES OF ACCEPTED APPLICANTS WHO HAVE EXPRESSED INTEREST IN THE VARIOUS ACTIVITIES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890694 SIGMA 5/6/7 ADMIS25-FINANCIAL NEED MATRICES
AUTHOR:C. VARGAS
ABSTRACT:
ADMIS25 PRINTS MATRICES OF SAT SCORES VERSUS CLASS RANK (TENTHS) FOR FINANCIAL CATEGORIES.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM

- 890695 SIGMA 5/8/7 ADMIS26-FAMILY INCOME CHART
AUTHOR:P. KAUFHOLD
ABSTRACT:
ADMIS26 PRINTS A CHART OF FAMILY INCOME LEVELS VERSUS CANDIDATE ACTION.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890696 SIGMA 5/8/7 ADMIS27-SELECTIVE COMPRESSED RECORDS
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
ADMIS27 CREATES A COMPRESSED RECORDS FOR INPUT TO ADMIS18-SELECTIVE LISTINGS.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:BPM
- 890698 SIGMA 5-9 GENERAL I/O PACKAGE - GETPUT
AUTHOR:J. MASON, XEROX CORPORATION
ABSTRACT:
GETPUT PROVIDES THE FORTRAN/COBOL/METASYMBOL USER WITH THE FOLLOWING SERVICES:1)DYNAMICALLY CREATE AND DELETE FILES WITH OR WITHOUT IASSIGN CARDS. FILES MAY BE ON TAPE, DISC, OR A DEVICE. A SINGLE DCB MAY BE OPENED TO MANY DIFFERENCE FILES OR DEVICES DURING THE COURSE OF A JOB; 2)DYNAMICALLY CONTROL ANY OR ALL ERROR/ABNORMAL CONDITIONS THAT MAY OCCUR DURING THE JOB; 3)USE THE I/O SERVICES OF THE MONITOR TO DELETE RECORDS, PERFORM KEYED READS/WRITES, SKIP RECORDS/FILES, AND READ/WRITE MULTI-VOLUME FILES; 4)OBTAIN THE KEY AND RECORD SIZE OF THE LAST RECORD READ/Written THROUGH A DCB.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OR UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890699 SIGMA 5/8/7 GEFORT
AUTHOR:J. MASON, XEROX DATA SYSTEMS
ABSTRACT:
THIS PROGRAM CONVERTS GE TIMESHARING FORTRAN TO XDS FORTRAN IVH. CONVERSION INCLUDES FORMATTING, DATA STATEMENTS FREEFORM READ STATEMENTS, COMPOUND STATEMENTS, MULTIPLE ASSIGNMENT STATEMENTS, REPLACING QUOTES WITH APOSTROPHES, SUPPRESSING III SEQUENCES, AND INCLUDING DOUBLE PRECISION STATEMENTS.
COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:SYMBOL SYSTEM:BPM/BTH STORAGE:639 DOCU.PAGES:6 DATE:10/10/70.
- 890700 SIGMA 5/8/7 FREEFORM
AUTHOR:J. MASON, XEROX DATA SYSTEMS
ABSTRACT:
THIS PROGRAM PROVIDES THE FORTRAN USER WITH FREEFORM INPUT. FREEFORM-4 IS FOR FORTRAN IV, EXTENDED FORTRAN IV AND EXTENDED FORTRAN IV-H. FREEFORM 4H IS FOR FORTRAN IV-H. IT ALSO PROVIDES COMPATABILITY WITH GE TIMESHARING FORTRAN.
COMMENTS:
PROGRAM TYPE:SUBPROO LANGUAGE:SYMBOL SYSTEM:BPM/BTH STORAGE:571 DOCU.PAGES:5 DATE:10/10/70.
- 890701 SIGMA 5/8/7 FORM
AUTHOR:J. MASON, XEROX DATA SYSTEMS
ABSTRACT:
FORM NOTIFIES THE OPERATOR A FORM CHANGE IS NEEDED, AND SUSPENDS THE PRINTER SYMBIONT WITH AN M:DEVICE M:LO.(FORM) CAL. FORM IS LOADED AS A PROCESSOR AND CALLED VIA CONTROL CARD IFORM. THE MESSAGE FOR THE OPERATOR IS INCLUDED ON THE CONTROL CARD, E.G. IFORM CHANGE PRINTER PAPER TO 4 PART CARBON.
COMMENTS:
PROGRAM TYPE:PROCESSOR LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:58 DOCU.PAGES:1 DATE:10/10/70.
- 890702 SIGMA 5/8/7 DETAB/85 PREPROCESSOR
AUTHOR:ANSON CHAPMAN
ABSTRACT:
THE DETAB/85 PREPROCESSOR CONVERTS LIMITED-ENTRY DECISION TABLES CONTAINED WITHIN COBOL PROGRAMS INTO A FORM ACCEPTABLE BY A COBOL COMPILER. DETAB/85 WOULD BE USEFUL IN THE AREAS OF ANALYSIS, DESIGN AND PROGRAMMING OF A COMPUTER SYSTEM.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:COBOL SYSTEM:BPM STORAGE:8975 DOCU.PAGES:55 DATE:10/10/70.
- 890703 SIGMA 5/8/7 MOTHER-OPERATOR CONSOLE TAPE HANDLER
AUTHOR:J. ELMAN, HARVARD UNIVERSITY
ABSTRACT:
THIS PROGRAM ALLOWS INPUTS TO THE OPERATOR CONSOLE TO PERFORM A NUMBER OF OPERATIONS ON 9 TRACK MAGNETIC TAPE. OPERATIONS SUCH AS: POSITION FORWARD, POSITION REVERSE, COPY CONDITIONALLY OR UNCONDITIONALLY, DUMP, WRITE TAPE MARK MAY BE ACCOMPLISHED VIA MOTHER.
COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:787 DOCU.PAGES:8 DATE:10/10/70.
PATCH IS REQUIRED FOR E00 AND IS DEPENDENT ON SOME LOCATIONS IN MONITOR. THE E00 VERSION IS A CONDITIONAL ASSEMBLY-E00 EQUI. LABEL MOMOPRCO IS THE -16 WRITE-UP FILE FOR MOTHER.

- 890706 SIGMA 5/8/7 SCORE KEEPER FOR CONTINUING TOURNAMENTS
AUTHOR: KATHERINE JAMERSON, COMPUTER SCIENCES CORP.
ABSTRACT:
THIS PROGRAM MAINTAINS A FILE WITH AN ENTRY FOR EACH PLAYER IN THE TOURNAMENT. WHEN THE PROGRAM IS RUN YOU HAVE THE OPTIONS OF: UPDATING AN EXISTING PLAYER, INSERTING A NEW PLAYER, DELETING A PLAYER, OR RUNNING (GETTING A REPORT OF CURRENT STATUS).
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: BASIC SYSTEM: BTH STORAGE: 700 DOCU. PAGES: 8
- 890707 SIGMA 5/8/7 BTH PLOTTING PACKAGE NONLABELING
AUTHOR: KATHERINE JAMERSON, COMPUTER SCIENCES CORP.
ABSTRACT:
THIS IS A NON LABELING FORTRAN PLOTTING SUBROUTINE WHICH WILL DO AUTOMATIC SCALING AND PRINT THE PLOT. A CHOICE OF TWO SCALING SUBROUTINES ALLOWS A VARYING OF THE PLOT SIZE AND DATA READABILITY.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN IVH SYSTEM: BTH STORAGE: 812 DOCU. PAGES: 18
- 890708 SIGMA 5/8/7 FORTRAN PRECOMPILER FORT II-FORT IVH
AUTHOR: G. SAGER, HONEYWELL, INC.
ABSTRACT:
THE PRECOMPILER CONVERTS FORTRAN II PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS THAT ARE THE BASIC FORTRAN IVH EQUIVALENT I.E. NEGATIVE DO LOOPS, IRREGULARITIES WHICH ARE NOT CONVERTIBLE ARE FLAGGED.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORTRAN IV SYSTEM: BPM STORAGE: 7583 DOCU. PAGES: 3
THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.
- 890709 SIGMA 5/8/7 TIMER ELAPSED TIME SUBR FOR COBOL
AUTHOR: H. LINGO, XEROX DATA SYSTEMS
ABSTRACT:
A COBOL CALLABLE SUB-ROUTINE TO START, STOP, AND READ TIME AND DATE CLOCK.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: METASYMBOL SYSTEM: BPM STORAGE: 48 DOCU. PAGES: 3
- 890711 SIGMA 5/8/7 CAL-CONVERSATIONAL ALGEBRAIC LANGUAGE
AUTHOR: D. GOLUB, HARVARD UNIVERSITY
ABSTRACT:
CAL IS AN INTERACTIVE COMPILER BASED ON SUCH OTHERS AS JOSS AND JOVIAL. IT HAS SOME ADVANTAGES OVER OTHER COMPILERS LIKE BASIC, NOTABLY THE ABILITY TO EASILY EXECUTE PORTIONS OF A PROGRAM INTERACTIVELY. THIS PARTICULAR IMPLEMENTATION OF CAL HAS WRITTEN TO RUN UNDER BTH.
COMMENTS:
PROGRAM TYPE: SUBSYSTEM LANGUAGE: SYMBOL/METASYM. SYSTEM: BTH D01 STORAGE: 12000 DOCU. PAGES: 88
DATE: 01/15/71.
- 890713 SIGMA 5/8/7 PRINTER PLOT SUBROUTINE
AUTHOR: C. CODLING, XEROX DATA SYSTEMS
ABSTRACT:
FORTRAN CALLABLE SUBROUTINE ALLOWS USER TO PLOT UP TO 90 CONCURRENT GRAPHS OVER A 100 POINT INTERVAL ON THE LINE PRINTER OR OTHER SIMILAR DEVICE. MULTIPLE CALLS WILL CREATE A TWO-DIMENSIONAL EFFECT.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: FORTRAN IVH SYSTEM: RBH/BPH STORAGE: 325 DOCU. PAGES: 4
- 890714 SIGMA 5/8/7 BATCH STREAM CARD LISTER
AUTHOR: A. BRYANT, BUCKNELL UNIVERSITY
ABSTRACT:
PROGRAM WILL LIST A DECK OF CARDS INCLUDING CONTROL CARDS. ALL EXCLAMATION POINTS (BANGS) PRINT AS ' OVER ' IN THE SAME COLUMN. THE MESSAGE '<BINARY CARD(S)>' IS PRINTED WHENEVER ONE OR MORE BINARY CARDS IS ENCOUNTERED. THE DECK TO BE LISTED MUST BE REVERSED (LAST CARD READ FIRST, FIRST CARD LAST). THE PROGRAM REVERSES CARD AND COLUMN SEQUENCE; LISTING CARDS IN CORRECT ORDER.
COMMENTS:
PROGRAM TYPE: UTILITY LANGUAGE: METASYMBOL SYSTEM: BPM STORAGE: 116 DOCU. PAGES: 2
- 890715 SIGMA 5-9 MIX ASSEMBLER/INTERPRETER SYSTEM
AUTHOR: P. SHERROD, VANDERBILT UNIVERSITY COMPUTER CENTER
ABSTRACT:
THE MIX ASSEMBLER SIMULATES AS CLOSELY AS POSSIBLE. THE MIX COMPUTER AS DESCRIBED BY DONALD KNUTH IN 'THE ART OF COMPUTER PROGRAMMING.' FLOATING POINT INSTRUCTIONS OF MIX ARE IMPLEMENTED MAKING IT A COMPLETE MIX SIMULATOR. REQUIRES 10K OF CORE.
COMMENTS:
PROGRAM TYPE: PROCESSOR LANGUAGE: METASYMBOL SYSTEM: BPM/BTH STORAGE: 10K DOCU. PAGES: 4.

- 890716 SIGMA 7 DREV APL
AUTHOR:DREV (DEFENSE RESEARCH ESTABLISHMENT AT VALCARTIER, CANADA)
ABSTRACT:
DREV APL IS A POWERFUL INTERACTIVE PROBLEM-SOLVING LANGUAGE WHICH BRINGS TO THE TIME-SHARING USER NEW DIMENSIONS IN PROGRAMMING, ANALYSIS AND SYSTEMS DESIGN CAPABILITIES. DREV APL OPERATES AS A RESIDENT FOREGROUND PROGRAM UNDER RBM OR BPM, AND IS ALMOST COMPLETELY COMPATIBLE WITH APL/360. MINIMUM CORE REQUIRED--RBM/30K, BPM/56K. ALSO REQUIRED--A DEDICATED 7204,7212 OR 7232 RAD, A 60-HZ CLOCK, A 7811 WITH FORMAT TIMING MODULE FOR 2741-LIKE DEVICES, AND A DEDICATED INTERRUPT.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:RBM/BPM STORAGE:30-84 DOCU.PAGES:136 BATCH BACKGROUND OR OTHER FOREGROUND TASKS MAY TAKE PLACE CONCURRENTLY DEPENDING ON CORE SIZE. APL PROVIDES ITS OWN TIME-SHARING MONITOR, SHARING A FIXED PERCENTAGE OF CPU TIME WITH THE BACKGROUND. THE SYSTEM PERFORMS ITS OWN COMM I/O AND HANDLES ITS OWN INTERRUPTS. IT INTERFACES ITS RAD I/O AND HANDLING OF SYSTEM CALLS WITH THE MONITOR TO PERMIT CONCURRENT BACKGROUND TASKS AND TO ALLOW OPERATOR INTERACTION.
- 890717 SIGMA 5-9 COBOL RESTART PROGRAM
AUTHOR:J.M. URBAN, XEROX CORPORATION
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO RESTART A CHECKPOINTED COBOL PROGRAM.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:58 DOCU.PAGES:3
- 890718 SIGMA 5-9 SIGMA PROJECT MANAGEMENT SYSTEM (SPMS)
AUTHOR:NEWPORT NEWS SHIPBUILDING AND DRYDOCK CO./P. BECKER, XEROX DATA SYSTEM
ABSTRACT:
A SYSTEM BASED UPON THE CRITICAL PATH METHOD IS USED TO DEVELOP AND EVALUATE PROJECT SCHEDULING.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAM-METASYM SYSTEM:BPM STORAGE:12K DOCU.PAGES:118
- 890721 SIGMA 5/6/7 C36T84 CONVERT 36 BIT WORD TO 64 BIT
AUTHOR:R. SPENCER, PURDUE UNIVERSITY
ABSTRACT:
USED TO CONVERT IBM 7094 SINGLE PRECISION FLOATING POINT NUMBERS, READ IN BINARY, TO XDS SIGMA 5/6/7 64 BIT DOUBLE PRECISION FLOATING POINT NUMBERS. C36T84 IS FORTRAM CALLABLE.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:SYMBOL SYSTEM:RBM STORAGE:90 DOCU.PAGES:2
- 890724 SIGMA 5-9 AUTOMATED MEDICAL HISTORY PROGRAM
AUTHOR:N. JOHNSON, XEROX DATA SYSTEMS
ABSTRACT:
THIS SYSTEM CONTAINS A GENERAL-PURPOSE QUESTIONNAIRE DRIVER WITH A SAMPLE AUTOMATED MEDICAL HISTORY QUESTIONNAIRE AND A REPORT GENERATOR. THE SAMPLE QUESTIONNAIRE IS MOST APPLICABLE TO A MEDICAL SCREENING ENVIRONMENT BUT THE BRANCHING-QUESTION TECHNIQUE IS APPLICABLE TO ANY QUESTION-ANSWER SITUATION.
COMMENTS:
PROGRAM TYPE:APPLICATION LANGUAGE:FORTRAM SYSTEM:BPM/UTS STORAGE:8K DOCU.PAGES:13
- 890727 SIGMA 5-9 CCOPY-PUNCHED CARD COPY/VERIFY PROGRAM
AUTHOR:L. BAIN, XEROX DATA SYSTEMS
ABSTRACT:
CCOPY IS A UTILITY PROCESSOR WHICH WILL PRODUCE SINGLE OR MULTIPLE COPIES OF A PUNCHED CARD DECK AND VERIFY THE OUTPUT DECK(S).
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:720 DOCU.PAGES:5
- 890728 SIGMA 5-9 POSITION TAPE PROGRAM FOR 7T/8T
AUTHOR:S. WHEELER, UNIVERSITY OF TEXAS AT ARLINGTON
ABSTRACT:
ADD VERSION OF POST(CN705425) ASSUMED ANY LABELED TAPE WAS 9-TRACK. THIS VERSION ALLOWS THE 7-TRACK LABELED TAPE USER TO SPECIFY '(DEVICE,7T)' ON AN M:EI ASSIGN CARD IN ORDER TO OVERRIDE POST'S 9-TRACK DEFAULT IF THE POST 'LABEL' OPTION IS USED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:5584 DOCU.PAGES:1
- 890730 SIGMA 5-9 SORT INTERFACE
AUTHOR:J. MASON, XDS
ABSTRACT:
THIS ROUTINE ALLOWS FORTRAM PROGRAMS TO CALL THE BPM SORT PROCESSOR (REFERENCE MANUAL 901199). THE SORT PARAMETERS ARE PASSED AS SOURCE CARD IMAGES IN A 20 TO 60 WORD INTEGER ARRAY. TWO DCB ADDRESSES, ONE FOR INPUT, ONE FOR OUTPUT, MUST ALSO BE PASSED TO SORT.
COMMENTS:
PROGRAM TYPE:ROUTINE LANGUAGE:SYMBOL SYSTEM:BPM STORAGE:>70 HEX DOCU.PAGES: 3

- 890732 SIGMA 5-9 CALCOMP PLOTTER SUBROUTINE PACKAGE
AUTHOR: J. CABELL MOORE, U. S. NAVAL RESERVE LAB.
ABSTRACT:
A MORE POWERFUL PLOTTER SUBROUTINE PACKAGE FOR FORTRAN USERS OF THE CALCOMP 565 X-Y DRUM PLOTTER.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: FORT-METASYMBOL SYSTEM: BPM STORAGE: 1094 DOCU. PAGES: 82
- 890733 SIGMA 5/6/7 STAND-ALONE RAD EDITOR
AUTHOR: P. SHERROD, VANDERBILT UNIVERSITY
ABSTRACT:
BOOTABLE PROGRAM WHICH MAY BE USED TO INSPECT OR CHANGE THE CONTENTS OF A RAD. FUNCTIONS SUCH AS: RAD (DEFINE), TYPE (DISPLAY), SEARCH (SEARCH FOR VALUE(S)), INSERT (REPLACE VALUE(S) AT SPEC. ADDR.), ZERO (CLEAR TO ZERO) ARE AVAILABLE AND FUNCTION CALLS ARE MADE FROM THE OPERATOR'S CONSOLE.
COMMENTS:
PROGRAM TYPE: UTILITY LANGUAGE: METASYMBOL SYSTEM: S/A STORAGE: 1153 DOCU. PAGES: 4
- 890734 SIGMA 5/6/7 SYSTEM DISC DUMP/RESTORE/AUTO BOOT
AUTHOR: B. PHILLIPS, VANDERBILT UNIVERSITY
ABSTRACT:
BOOTABLE PROGRAM WHICH OPERATES ON THE BATCH MONITOR. IT SAVES ALL PSA AND ALL USED PFA AREA NECESSARY FOR SYSTEM OPERATE. THE PORTIONS OF THE DISC ARE SAVED ON 1-4 TAPES WHICH MAY BE WRITTEN SIMULTANEOUSLY. THE SYSTEM MAY BE RESTORED FROM TAPE WITH WRITE CHECKING AND WILL AUTOMATICALLY BE BOOTED FROM DISC IF REQUESTED.
COMMENTS:
PROGRAM TYPE: UTILITY LANGUAGE: META-SYMBOL SYSTEM: S/A STORAGE: 48K DOCU. PAGES: 3
- 890735 SIGMA 5/6/7 FACTORIAL FUNCTIONS FAC AND DFAC
AUTHOR: T. E. HEITHECKER, UNIVERSITY OF TEXAS AT ARLINGTON
ABSTRACT:
TO COMPUTE THE FACTORIAL OF A NUMBER IN THE RANGE 0 TO 56 INCLUSIVE, AND RETURN THE RESULT AS A REAL (WHEN USING FAC) OR DOUBLE PRECISION (WHEN USING DFAC) NUMBER.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: META-SYMBOL SYSTEM: BPM STORAGE: 223 DOCU. PAGES: 3
- 890736 SIGMA 5-9 ECD ENGLISH CODED DECIMAL
AUTHOR: B. MCKEON, SYRACUSE UNIVERSITY RESEARCH CORPORATION
ABSTRACT:
THIS PROGRAM CONVERTS A PACKED DECIMAL NUMBER TO A CHARACTER STRING CONTAINING THE REPRESENTATION OF THE NUMBER IN ENGLISH WORDS.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: SYMBOL SYSTEM: BPM STORAGE: 92 DOCU. PAGES: 3
- 890737 SIGMA 5-9 XCORE - EXTRA CORE FOR FORTRAN PROGRAMS
AUTHOR: J. SCHWARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION
ABSTRACT:
A MAIN PROGRAM WHICH MAKES AN EXTRA 1024 WORDS OF CORE AVAILABLE TO FORTRAN PROGRAMS RUNNING UNDER BPM. ONLY SLIGHT MODIFICATIONS ARE REQUIRED TO USE THIS TECHNIQUE WITH CURRENTLY RUNNING PROGRAMS. THE CORE IS USED BY THE MONITOR DURING THE READING OF LOAD MODULE. IT IS OBTAINED BY USING AN M:OP CAL.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: META-SYMBOL SYSTEM: BPM STORAGE: 24 DOCU. PAGES: 3
- 890738 SIGMA 5-9 CALCOMP PLOTTING PACKAGE
AUTHOR: J. SCHWARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION
ABSTRACT:
MODIFICATION OF 705657. THE PRIMARY PURPOSE OF THE CHANGES IS TO PRODUCE AN ENCODED VERSION OF THE PLOTTING COMMANDS. FOR STRAIGHT HORIZONTAL, VERTICAL OR 45 DEGREE LINES, ENCODED COMMANDS ARE LESS THAN 1X THE LENGTH OF UNCODED COMMANDS. THIS CAN SAVE RAD SPACE IF THE PLOTTER IS A SYMBIONT DEVICE. THIS ROUTINE CANNOT BE USED WITH THE STANDARD PLOTTER HANDLER. A HANDLER WHICH ACCEPTS THE ENCODED COMMANDS IS AVAILABLE AS CN890739.
COMMENTS:
PROGRAM TYPE: SUBROUTINE LANGUAGE: META-SYMBOL SYSTEM: BPM DOCU. PAGES: 2
- 890739 SIGMA 5-9 PLOTTER HANDLER
AUTHOR: J. SCHWARZ, SYRACUSE UNIVERSITY RESEARCH CORPORATION
ABSTRACT:
A HANDLER WHICH CAN REPLACE THE STANDARD XDS PLOTTER HANDLER. IT ACCEPTS AN ENCODED VERSION OF THE RECORDS TO BE WRITTEN TO THE PLOTTER, DECODES THEM, AND CONSTRUCTS THE CHANNEL COMMANDS TO SEND THEM TO THE PLOTTER. IF THE PLOTTER IS A SYMBIONT DEVICE RAD SPACE CAN BE SAVED. ENCODED COMMANDS FOR STRAIGHT HORIZONTAL, VERTICAL, OR 45 DEGREE LINES ARE LESS THAN 1X THE LENGTH OF THE UNCODED VERSION. THE HANDLER WILL TREAT UNCODED COMMANDS PROPERLY, PROVIDED THEIR LOW ORDER TWO BITS ARE ZERO.
COMMENTS:
LANGUAGE: META-SYMBOL SYSTEM: BPM STORAGE: 130 DOCU. PAGES: 4

- 890743 SIGMA 5-9 UNIVAC 1108 COMMUNICATIONS CONTROL PROG.
AUTHOR:L. WINCKLER, XEROX DATA SYSTEMS
ABSTRACT:
THE SIGMA 5/UNIVAC 1108 COMMUNICATIONS CONTROL PROGRAM (CCP) GIVES THE SIGMA 5-9 BPM/BTH SYMBIONT SYSTEM THE CAPABILITY OF DOING REMOTE JOB ENTRY TO A UNIVAC 1108 RUNNING THE EXEC-2 MONITOR. IT ALLOWS THE SIGMA 5-9 TO BE RUNNING BATCH AND/OR TIME-SHARING CONCURRENTLY WITH THE CCP.
COMMENTS:
REQUIRES HALF-DUPLEX 7601 DATA SET CONTROLLER AND USES SYMBIONT CARD READER, LINE PRINTER, AND CARD PUNCH. CURRENTLY RUNNING ON SIGMA 5 WITH 7232 RAD, 7248 DISK DRIVE, 7140 CARD READER, 7165 CARD PUNCH, 7440 LINE PRINTER, 7601 DATA SET CONTROLLER AND 8 LINES OF TIME-SHARING.
- 890745 SIGMA 5-9 CRSH - LOAD MODULE CRUSHER
AUTHOR:D.E. ERICKSON - JET PROPULSION LABORATORY
ABSTRACT:
THIS PROGRAM REDUCES RAD STORAGE REQUIREMENTS OF LOAD MODULES.
COMMENTS:
PROGRAM TYPE:UTILITY LANGUAGE:METASYMBOL SYSTEM:BPM STORAGE:1K DOCU.PAGES:1
- 890746 SIGMA 5-9 COBOL TELETYPE INTERFACE SUBROUTINES
AUTHOR:R. GERRITSEN, XEROX DATA SYSTEMS
ABSTRACT:
THREE SUBROUTINES WHICH ENABLE A COBOL PROGRAM TO INTERFACE IN A NATURAL WAY WITH A USER AT A TELETYPE TERMINAL. THE FUNCTIONS THE SUBROUTINES PROVIDE ARE 1.CARRIAGE RETURN AND LINE FEED ISSUED 2.PRINT A PROMPT ON TELETYPE 3.READ TELETYPE INTO A BUFFER.
COMMENTS:
PROGRAM TYPE:SUBROUTINE LANGUAGE:META-SYMBOL SYSTEM:BPM/UTS STORAGE:133 DOCU.PAGES:4
- 890747 SIGMA 5-9 ADAPT - NUMERICAL CONTROL PROGRAM
AUTHOR:NEWPORT NEWS SHIPBUILDING AND DRYDOCK CO.
ABSTRACT:
ADAPT IS A NUMERICAL CONTROL COMPILER FOR THE SIGMA 5-9 LINE. IT IS A SIGMA REWRITE OF THE XDS 9-SERIES ADAPT COMPILER, PROGRAM NUMBER 850754.
COMMENTS:
PROGRAM TYPE:PROCESSOR LANGUAGE:FORT IV/METASYM SYSTEM:BPM STORAGE:35K DOCU.PAGES:25
THE ELEMENT -11 OF THIS PROGRAM CONTAINS CORRECTIONS TO REFERENCE MANUAL 901045 WHICH SHOULD BE ORDERED.
- 890748 SIGMA 5-9 APT3 (LEVEL 3)
AUTHOR:R. REEVES, XEROX CORPORATION
ABSTRACT:
A NUMERICAL-CONTROL PARTS PROGRAMMING LANGUAGE COMPATIBLE WITH THE LEVEL 3 SUBSET OF THE APT LANGUAGE STANDARDS PUBLISHED BY THE APT LONG RANGE PROGRAM OF IITRI. OPERATION IS EITHER BATCH OR INTERACTIVE ON-LINE, AND CONTROL TAPES, LISTINGS, ETC., ARE PRODUCED AS DESIRED VIA THE USER'S TERMINAL OR ON-LINE EQUIPMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THIS PROGRAM OPERATES UNDER UTS USING 18K OVERLAYS. SOURCE IS 20K FORTRAN STATEMENTS AND 200 META STATEMENTS. IT ALSO RUNS UNDER CP-V.
- 890750 SIGMA 5-9 EXTENDED ALGOL 60
AUTHOR:O. HAYNAM, O. HANSEN, R. COOK - VANDERBILT UNIVERSITY
ABSTRACT:
ALGOL 60 IS A LANGUAGE SUITABLE FOR EXPRESSING A LARGE CLASS OF NUMERICAL PROCESSES IN A FORM SUFFICIENTLY CONCISE FOR DIRECT AUTOMATIC TRANSLATION INTO MACHINE LANGUAGE. THE EXTENSIONS WHICH HAVE BEEN MADE FACILITATE THE HANDLING OF LARGE, COMPLEX PROGRAMS PLUS MORE FLEXIBLE I/O, DOUBLE PRECISION ARITHMETIC, STRING OPERATIONS, DEBUGGING, AND BIT OPERATIONS.
COMMENTS:
PROGRAM TYPE:PROCESSOR LANGUAGE:META-SYMBOL SYSTEM:BPM DOCU.PAGES:143
- 890751 SIGMA 5-9 XREF
AUTHOR: XEROX
ABSTRACT:
XREF PROVIDES INFORMATION ABOUT PROGRAM LINKAGES BY FINDING, SORTING, AND LISTING EXTERNAL REFERENCES AND DEFINITION FROM SETS OF ROM'S.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS/BPM/BTH OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 890752 SIGMA 5-9 MAP PROCESSOR WITH SHELL SORT
AUTHOR: XEROX
ABSTRACT:
MAP DISPLAYS LOAD MODULES BY SEGMENTS SHOWING SEGMENT ATTRIBUTES; PRIMARY AND SECONDARY REFERENCES, ABSOLUTE, DOUBLY DEFINED, AND LIBRARY DEFINITIONS; PROGRAM SECTIONS; AND RELOCATABLE DEFINITIONS SORTED BY HEXADECIMAL VALUE AND/OR NAME. MAP LINKS TO SHELL SORT SUBROUTINE SSSUBR, WHICH IS INCLUDED IN THIS PROGRAM.

890752 CONTINUED ON FOLLOWING PAGE

- 890752 MAP PROCESSOR WITH SHELL SORT (CONTINUED)
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH/UTS OPERATION SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890753 SIGMA 6-9 APAM LIBRARIAN
AUTHOR:K. KRUM, XEROX
ABSTRACT:
ALLOWS XOS USERS TO ACCESS ANY MEMBER OF A PARTITIONED FILE BY UTILIZING ANY ONE OR ALL OF THE FOLLOWING SIX FUNCTIONS: CREATE MEMBERS, MODIFY RECORDS OF A MEMBER, CHANGE MEMBER NAME, DELETE MEMBER, COPY MEMBER, AND LIST MEMBER. USING THIS UTILITY TO MAINTAIN PROGRAM SOURCE ON DISK CAN NOW BE EFFICIENTLY IMPLEMENTED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890754 SIGMA 5-9 PAPLIST
AUTHOR:A. MITCHELL, BUCKNELL UNIVERSITY
ABSTRACT:
PAPLIST PRODUCES DELIVERY LISTS AND PURCHASE SUMMARY FOR UP TO 16 DIFFERENT NEWSPAPERS. ADVANCED PAYMENT BILL MAY ALSO BE COMPUTED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH/UTS OPERATING SYSTEMS. PROGRAM TYPE IS COMMERCIAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890756 SIGMA 5-9 RBPRINT
AUTHOR:C. DEPNER, BUCKNELL UNIVERSITY
ABSTRACT:
RBPRINT IS A SUBROUTINE ENABLING A COBOL PROGRAM TO CORRECT SPACE FORMS ON A 7870 REMOTE BATCH PRINTER. RBPRINT ELIMINATES THE EXTRA SPACING WHICH NORMALLY OCCURS WHEN A COBOL PROGRAM ADVANCES THE PRINTER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE BPH/BTH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890757 SIGMA 5-9 KEYED/RANDOM FILES FOR FORTRAN IV
AUTHOR:T.G. SCHULTZ, CUMMINS ENGINE CO.
ABSTRACT:
THE FORTRAN IV LIBRARY ROUTINES 8RDISC AND 8WDISC HAVE BEEN REWRITTEN TO HANDLE KEYED FILES (WITH 3 BYTE KEY) AND RANDOM FILES BY RECORDS. THE ACCESS METHOD BY RELATIVE WORD DISPLACEMENT HAS BEEN RETAINED. DISC I/O IS HANDLED BY THE STANDARD READ DISC, WRITE DISC STATEMENTS, NOT BY THE BUFFERIN, BUFFEROUT CALLS.
- 890758 SIGMA 5-9 EXECUTION ANALYZER PROGRAM (EAP)
AUTHOR:P. SHERROD, VANDERBILT UNIVERSITY
ABSTRACT:
THE EXECUTION ANALYZER PROGRAM (EAP) IS A PROGRAM WHICH WILL EXECUTE A SUBJECT PROGRAM AND IDENTIFY THOSE LOCATIONS IN THE SUBJECT PROGRAM WHERE MOST OF THE TIME IS BEING SPENT. EAP TAKES CONTROL AND EXECUTES THE SUBJECT PROGRAM INSTRUCTION BY INSTRUCTION KEEPING TRACK OF THE TIME SPENT AT EACH LOCATION. WHEN THE SUBJECT PROGRAM EXITS, EAP PRINTS OUT A HISTOGRAM SHOWING THE TIME SPENT AT VARIOUS LOCATIONS. THE RANGE OF LOCATIONS WHICH ARE TO BE KEPT TRACK OF AND THE NUMBER OF LOCATIONS PER HISTOGRAM CELL ARE PROGRAMMER SUPPLIED PARAMETERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH, CP-V, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE 800 VERSION OF EAP CORRECTS A NUMBER OF PROBLEMS WHICH EXISTED IN THE EARLIER VERSION AND ADDS SEVERAL ENHANCEMENTS.
- 890759 SIGMA 5-9 FORTRAN RANDOM DISC
AUTHOR:G. POWERS, WOODS HOLE OCEANOGRAPHIC INSTITUTE
ABSTRACT:
A SUBROUTINE FOR FORTRAN IV PROGRAMS. IT ALLOWS THE USER TO TREAT DISC STORAGE AS A NUMBER OF VARIABLE ARRAYS. EACH OF THESE ARRAYS IS DYNAMICALLY EXTENDABLE. THE USER MAY DIRECTLY ACCESS LOCATIONS WITHIN EACH ARRAY. THE ROUTINE USES ONE PAGE OF DYNAMIC STORAGE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTH OPERATING SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890763 SIGMA 6/7/9 FLOPLOT - A UTS FLOWCHARTING PROGRAM
AUTHOR:XEROX CORPORATION
ABSTRACT:
FLOPLOT PROVIDES AN EASY TO USE METHOD OF PRODUCING AND MAINTAINING FLOWCHARTS. THE FLOWCHART IS DESCRIBED BY A FLOWCHARTING LANGUAGE THAT IS SIMILAR (SYNTACTICALLY) TO AN ASSEMBLY LANGUAGE. THE FLOWCHART WHICH IS DRAWN ON THE PLOTTER, CONFORMS TO THE ANS X3.5-1970 STANDARD.
COMMENTS:
FLOPLOT RUNS UNDER UTS IN ABOUT 8K OF CORE AND REQUIRES A XEROX 7530 OR 7531 PLOTTER. A USERS GUIDE IS INCLUDED AS PART OF THE PRINTED DESCRIPTION (-11).

- 890784 SIGMA 5-9 HASP REMOTE JOB ENTRY
AUTHOR: BILLING HOSPITAL-UNIV. OF CHICAGO AND XEROX CORP.
ABSTRACT:
THE HASP RJE COMMUNICATION HANDLER GIVES THE SIGMA 5/9 BPM F01 SYSTEM THE CAPABILITY TO OPERATE AS A HASP RJE TERMINAL AND CONTINUE TO RUN NORMAL BATCH, REMOTE BATCH OR REAL-TIME OPERATIONS. THE HANDLER IS COMPRISED OF THREE PROGRAMS. MONITOR INTERFACE PROGRAM --PROVIDES THE LINE PROTOCOL AND DEVICE HANDLING TO SUPPORT HASP MULTI-LEAVING TRANSMISSION IN A MANNER IDENTICAL TO 380/20 WORKSTATION PROCEDURES. THIS PROGRAM SUPPORTS SINGLE PRINTER, PUNCH AND CARD-READER DEVICE STREAMS AND UTILIZES THE BINARY -SYNCHRONOUS-COMMUNICATIONS TRANSPARENT TEXT MODE.
ENCODE PROGRAM - PROVIDES MESSAGE COMPRESSIONS AND CONTROL CHARACTER INSERTIONS FOR THE HASP SYSTEM INPUT.
DECODE PROGRAM - EXPANDS THE RECORDS RECEIVED FROM 380 HASP AND ROUTES THEM TO THE APPROPRIATE DEVICE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH. PROGRAM TYPE - ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890786 SIGMA 5-9 THREE DIMENSION TRANSIENT HEAT TRANSFER
AUTHOR: L. MORDOCK, M. WYMAN
ABSTRACT:
THIS IS A GENERALIZED COMPUTER PROGRAM CAPABLE OF SOLVING NUMEROUS CLASSES OF THERMAL TRANSPORT PROBLEMS. CONDUCTION, CONVECTION, RADIATION, HEAT GENERATION, AND ENERGIES ASSOCIATED WITH FLUID TRANSPORT CAN BE SIMULTANEOUSLY CONSIDERED. NUMERICAL INTEGRATION IS ACHIEVED BY USE OF A FORWARD FINITE DIFFERENCING TECHNIQUE CAPABLE OF SOLVING STEADY STATE AND TRANSIENT PROBLEMS. DATA INPUT IS BY A USER-WRITTEN INPUT SUBROUTINE, ALLOWING CONSIDERABLE FLEXIBILITY OF INPUT DATA FORMATS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH/UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890788 SIGMA 5-9 DELETE STANDARD
AUTHOR: V. HUBER, XEROX
ABSTRACT:
READS THROUGH M:SI AND DELETES ALL FILES WHOSE NAMES ARE PRECEDED BY ASTERISKS. THE NUMBER OF FILES DELETED AND NUMBER OF GRANULES RELEASED ARE WRITTEN THROUGH M:LD. BREAK CONTROL IS PROVIDED TO INTERRUPT EXECUTION. FILES MAY BE DELETED IN ACCOUNTS OTHER THAN USER'S PROVIDED HIS PRIVILEGE EXCEEDS X'CO'.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890789 SIGMA 5-9 UNITNAME
AUTHOR: D. MACLEMORE, AUTONETICS
ABSTRACT:
THE PURPOSE OF THIS ROUTINE IS TO PROVIDE THE USER PROGRAM WITH THE MEANS OF RETRIEVING AT EXECUTION TIME THE ACTUAL UNIT NAME OR RAD FILE NAME ASSIGNED TO A GIVEN FORTRAN UNIT NUMBER OR DCB. THIS ROUTINE USES BYTE STRING INSTRUCTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890778 SIGMA 5-9 XOSDEBE
AUTHOR: J. BLANCHARD, XEROX
ABSTRACT:
A MULTI-PURPOSE UTILITY SUPPORTING DATA MOVEMENT BETWEEN 2 TAPES, CARD READER, CARD PUNCH, AND/OR LINE PRINTED. ACCESS TO DISK DRIVES OR THE RAD IS NOT SUPPORTED. XOSDEBE IS OPERATED FROM THE CONSOLE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS A ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890771 SIGMA 5-9 MESSORT
AUTHOR: J. BLANCHARD, XEROX
ABSTRACT:
THE INPUT ROUTINE IN THE STANDARD XOS SORT HAS BEEN REPLACED ALLOWING UP TO 10 INPUT FILES OF EQUAL RECORD SIZES TO BE SORTED. THE INPUT FILES MUST RESIDE ON MAGNETIC TAPE AND/OR DISK.
COMMENTS:
THIS PROGRAM WILL RUN UNDER XOS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890777 SIGMA 5-9 EXPAND PROCESSOR
AUTHOR: C. COOLING, XEROX CORPORATION
ABSTRACT:
EXPAND CONVERTS 18-RBM COMPRESSED TAPES TO SOURCE AND/OR LISTINGS IN UNBLOCKED FORM. SOURCE IMAGES ARE OUTPUT THROUGH M:EO, LISTINGS THROUGH M:LO. IT TAKES SPECIFIC ADVANTAGE OF SYMBIONTS IF PRESENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM, CP-V, RBM, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 890778 SIGMA 5-9 INTERACTIVE DMS DEBUG PACKAGE
AUTHOR: S. OHAYON, XEROX
ABSTRACT:
IDDP ALLOWS THE USER TO CALL AND EXECUTE ANY DBM ROUTINE INTERACTIVELY FROM AN ON-LINE TERMINAL BY USING COMMANDS SIMILAR TO DMS PROCEDURES. IT IS ANALOGOUS TO SUCH SYSTEMS AS FORTRAN DEBUG PACKAGE OR DELTA EXCEPT THAT IT IS RUN INDEPENDENTLY; I.E. IT CAN BE USED ON ANY DMS DATABASE WITHOUT REGARD TO THE USER'S PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
ALL DMS PROCEDURES ARE IMPLEMENTED EXCEPT FINDSEQ. PRIOR TO USING IDDP, A QUERY SCHEMA MUST BE CREATED - SEE CN 890779, QSP.
- 890779 SIGMA 5-9 QUERY SCHEMA PROCESSOR
AUTHOR: S. OHAYON, XEROX
ABSTRACT:
QSP IS A TWO-PASS TRANSLATOR THAT GENERATES A QUERY SCHEMA FROM A DMS SCHEMA AND A COBOL COPY FILE. THE QUERY SCHEMA IS NECESSARY FOR IDDP TO ACCESS THE DMS DATABASE. IDDP IS AVAILABLE AS CN 890778.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH/UTS OPERATING SYSTEMS. PROGRAM TYPE IS APPLICATION PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
BUILT INTO QSP IS A DECISION TABLE PROCESSOR WHICH PRODUCES THE DECISION TABLE FROM RELATIONS BUILT BY THE SECOND PASS OF THE QUERY SCHEMA PROCESSOR.
- 890783 SIGMA 8/7/9 PATCH DCB
AUTHOR: D. LASLEY
ABSTRACT:
PATCHDCB MAKES PERMANENT DCB ASSIGNMENTS TO NORMAL LOADER BUILT OVERLAID, LINK BUILT, AND PAGED LOAD MODULES, THEREBY NEGATING THE NEED FOR IASSIGN OR ISET COMMANDS IN RUNNING THE LOAD MODULE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890785 SIGMA 5-9 FUR - FILE UPDATE ROUTINE
AUTHOR: VANDERBILT UNIVERSITY
ABSTRACT:
FUR IS A UTILITY PROCESSOR FOR UPDATING CARD IMAGES ON MAGNETIC TAPE. THE CONTROL SPECIFICATION COMMANDS ARE SIMPLE AND THE SEQUENTIAL RECORD POSITION OF EACH RECORD IS THE BASIS FOR RECORD SELECTION, DELETION, OR ADDITION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTH/UTS OPERATING SYSTEM. PROGRAM TYPE: ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890786 SIGMA 6-9 TOMAS-TERMINAL ORIENTED MERGE & SORT
AUTHOR: D. PALMER, VANDERBILT UNIVERSITY
ABSTRACT:
USING TOMAS, A TIME-SHARING USER CAN SET UP AND SUBMIT A JOB TO THE BACKGROUND BATCH STREAM TO EITHER SORT A DISK FILE OR MERGE SEVERAL DISK FILES TOGETHER. THIS IS ACCOMPLISHED BY THE USER ANSWERING SEVERAL QUESTIONS CONCERNING THE REQUIREMENTS OF THE SORT/MERGE OPERATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
TOMAS IS WRITTEN FOR USE WITH SORT VERSION E00 OR LATER, AND MERGE VERSION E00 OR LATER. IF THE E00 VERSIONS ARE USED, THE TECHNICAL BULLETIN(S) CORRECTING ERRORS IN HANDLING OF CONTROL COMMANDS CONTINUED ONTO SUCCESSIVE RECORDS MUST BE IMPLEMENTED. TOMAS REQUIRES EITHER THE BYTE STRING INSTRUCTIONS OR THEIR SIMULATION IN THE MONITOR.
- 890787 SIGMA 6-9 UTS ACCOUNTING SUMMARY
AUTHOR: D. VOGEL, XEROX CORPORATION
ABSTRACT:
THE MONITOR-CREATED ACCOUNTING LOG IS SEARCHED AND SUMMARIZED FOR BOTH BATCH AND TIME-SHARED USERS. REPORTS ARE PRODUCED SHOWING TOTAL JOB EXECUTION TIME, CORE USED, JOB THROUGHPUT, AND PARTITION USE. THESE REPORTS ARE MOST USEFUL FOR SYSTEM TUNING TO PRODUCE MAXIMUM THROUGHPUT IN A PARTICULAR OPERATING ENVIRONMENT AT AN INSTALLATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN COBOL.
THIS PROGRAM SUMMARIZES THE ACCOUNTING LOGS CREATED BY UTS (B01-D00) AND CP-V.
- 890788 SIGMA 5-9 CALENDAR
AUTHOR: D. CROCKETT, DOUGLAS AIRCRAFT COMPANY
ABSTRACT:
CALENDAR, WHEN GIVEN THE DATE, RETURNS THE CORRESPONDING DAY OF THE WEEK. IF AN INVALID DATE IS SPECIFIED, AN ERROR FLAG IS SET AND THE PROGRAM RETURNS TO THE USER WITHOUT PROCESSING THE DATE. LEAP YEARS AND CENTURIES ARE PROPERLY HANDLED ACCORDING TO THE CONVENTIONS OF THE GREGORIAN CALENDAR. THE CALENDAR SUB-PROGRAM IS DESIGNED FOR INCLUSION IN BOTH THE STANDARD AND REAL-TIME FORTRAN LIBRARIES SUPPORTED BY ANY OF THE SIGMA 5-9 BATCH MONITORS.
COMMENTS:

890788 CONTINUED ON FOLLOWING PAGE

- 890788 CALENDAR (CONTINUED)
THIS PROGRAM WILL RUN UNDER BPM/BTM/RBM/UTS/XOS OPERATING SYSTEMS. PROGRAM TYPE IS LIBRARY ROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. NOTE: THE DAY RETURNED IS ACCURATE EXCEPT AS FOLLOWS: 1.DATES PRIOR TO 1582 - ERROR IS TEN DAYS. 2.ACCORDING TO GREGORIAN CALENDAR CONVENTIONS, THERE IS AN ERROR OF THREE DAYS AFTER 10,000 YEARS, INCREASING BY THREE DAYS.
- 890791 SIGMA 7/8/9 CASPRE BPM
AUTHOR:SYSTEMS SOFTWARE, NASA-AMES RESEARCH CENTER
ABSTRACT:
CASPRE IS AN ON-LINE DEBUG SYSTEM FOR FOREGROUND USERS OPERATING UNDER A BPM SYSTEM ON THE SIGMA 7/8 COMPUTER. CASPRE OFFERS THE FOREGROUND USER A COMPLETE SET OF DIGITAL COMPUTER DEBUG FEATURES. ALSO INCLUDED ARE THE UPDATES REQUIRED FOR THE ODD LOADER AND THE ODD FORTRAN IV COMPILER, AND METAFUM, A PROGRAM TO FACILITATE UPDATING THE MONITOR, PROCESSORS, THE LIBRARY OR A USER PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS ON-LINE DEBUG SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890793 SIGMA 5-9 RBM SORT
AUTHOR:GILLARD, XEROX
ABSTRACT:
THIS IS A DISK SORT FOR THE FOLLOWING TYPE RECORDS: FIXED LENGTH BLOCKED AND UNBLOCKED; UNBLOCKED VARIABLE LENGTH, AND RBM COMPRESSED FILES. THE SORT SUPPORTS ANY DEVICE THAT MAY BE ACCESSED VIA STANDARD CAL1, 1 READS AND WRITES. A MAXIMUM OF 16 SORT FIELDS MAY BE SPECIFIED IN ASCENDING OR DESCENDING SEQUENCE. SORTING IS DONE ON AN ABSOLUTE BINARY-VALUED COLLATING SEQUENCE.
COMMENTS:
THE SORT REQUIRES APPROXIMATELY 8K OF STORAGE FOR EFFICIENT OPERATION. HOWEVER, EFFICIENCY VARIES WITH THE LOGICAL AND PHYSICAL SIZE OF THE INPUT AND OUTPUT RECORDS. INTERMEDIATE STORAGE REQUIREMENTS ARE APPROXIMATELY 2.1 - 2.4 TIMES THE INPUT FILE SIZE.
- 890794 SIGMA 5-9 RBM COPY PROCESSOR
AUTHOR:L. ZAYTOUN, WRIGHT-PATTERSON AIR FORCE BASE
ABSTRACT:
THIS PROGRAM ALLOWS USERS TO COPY DATA BETWEEN DEVICES, OP-LABELS, FILES, AND ALL COMBINATIONS THEREOF. THE DATA MAY BE MULTI-FILED AND THE USER CAN SPECIFY THE NUMBER OF FILES TO BE MOVED. BINARY ROM'S AND COMPRESSED DECKS MAY BE RECOGNIZED AND MANIPULATED INDIVIDUALLY UNDER USER COMMAND. THE PROCESSOR ALSO ALLOWS THE USER TO MAINTAIN PARTITIONED FILES ON RAD OR DISK AS WELL AS ALLOWING THE USER TO MAINTAIN LABEL AND RETRIEVE FILES ON MAGNETIC TAPE. THE FILES ARE IDENTIFIED BY NAME AND USER ACCOUNT NUMBER (FROM JOB CARD OR :ACCOUNT COMMAND). DATA KEPT ON DISK IS COMPRESSED WITH MULTIPLE OCCURENCES (3 OR MORE) OF ANY CHARACTER COMPRESSED. LOAD FILES MAY ALSO BE SAVED ON THE PARTITIONED FILE AREA. LOAD FILES REALIZE UP TO A 20% SAVINGS ON DISK. EVEN COMPRESSED FILES MOVED TO THE PARTITIONED AREA WILL EXPERIENCE FURTHER COMPRESSION. FILES MUST BE MOVED TO A WORK AREA BEFORE USE OF DECOMPRESSED BY THE USER HIMSELF. THE COMPRESSION IS INSENSITIVE TO ALL CHARACTERS (00-FF).
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP/METASYMBOL.
THIS PROGRAM WILL OPERATE ON A MINIMUM RBM CONFIGURATION. NOTE THAT THE NUMBER OF MEMBERS IN THE PARTITIONED FILE AND THE SIZE OF THE DATA BUFFER FOR ALL COPIES IS A FUNCTION OF AVAILABLE BACKGROUND SPACE.
- 890795 SIGMA 5-9 XREF-XSYMBOL
AUTHOR:OHIO COLLEGE LIBRARY CENTER , A. LANDGRAF
ABSTRACT:
THIS PROGRAM GENERATES A CROSS REFERENCE DICTIONARY OF DEFINITIONS AND REFERENCES WHICH APPEAR IN A SOURCE OR COMPRESSED DECK THAT HAS BEEN PROCESSED BY MACROSYMBOL. THE PROGRAM NOTES UPDATE LINES TO COMPRESSED AREA AND WILL PARSE METASYMBOL COMPLEX EXPRESSIONS.
COMMENTS:
OPERATES UNDER RBM MINIMUM CONFIGURATION AND UTILIZES DATA ON THE XI AREA ON THE RAD AS IT WAS CREATED BY MACROSYMBOL.
- 890796 SIGMA 5-9 TAPE FILE RETRIEVAL PROGRAM
AUTHOR:J. GILLARD, XEROX
ABSTRACT:
THIS PROGRAM ALLOWS USERS TO MAINTAIN AND RETRIEVE DATA FILES ON MAGNETIC TAPE BY NAME. TAPES ARE LABELED WITH THEIR CREATION DATE.
COMMENTS:
THIS PROGRAM WILL EXECUTE ON A MINIMUM RBM CONFIGURATION WITH ONE MAGNETIC TAPE DRIVE. DATA RECORD LENGTH IS A FUNCTION OF AVAILABLE BACKGROUND SPACE.
- 890797 SIGMA 5-9 PAGE BURSTER
AUTHOR:A. LANDGRAF, OHIO COLLEGE LIBRARY CENTER
ABSTRACT:
THIS PROGRAM WILL PRINT A BURST PAGE(S) TO ALLOW THE USER TO IDENTIFY LISTINGS. THE PROGRAM PRINTS BLOCK LETTERS ON THREE LINES USING DATA PASSED VIA THE PROCESSOR CONTROL CARD. THE DATA AND TIME, JOB NAME, ACCOUNT NUMBER, PROGRAMMER NAME, AND SYSTEM VERSION ARE ALSO PRINTED OUT.
COMMENTS:
THIS PROGRAM OPERATES ON A MINIMUM CONFIGURATION RBM. THE ACCOUNTING OPTION DOES NOT HAVE TO BE INCLUDED IN RBM, BUT THE DATE AND TIME MUST BE ENTERED.

- 890799 SIGMA 7 XPL (GORDO) - XPL COMPILER
AUTHOR: LAWRENCE LIVERMORE LABORATORY
ABSTRACT:
A SIGMA 7 COMPILER FOR A SLIGHTLY EXTENDED VERSION OF THE COMPILER/SYSTEMS LANGUAGE XPL DESCRIBED IN THE BOOK 'A COMPILER GENERATOR' BY MCKEEMAN, HORNINO AND WORTMAN. THE COMPILER IS ITSELF WRITTEN IN XPL (GORDO) AND IS SELF-COMPILING. OUTPUT MAY BE RUN ON ANY SIGMA 7 WHEN USED WITH A LOCALLY CODED SUBMONITOR INTERFACE ROUTINE.
THE XPL LANGUAGE HAS PROVEN ITSELF USEFUL IN THE CONSTRUCTION OF LANGUAGE TRANSLATORS, GENERAL UTILITY PROGRAMS, SYSTEMS MODULES, AND IN OTHER APPLICATIONS WHERE THE PRIMARY NEED IS LOGICAL AND SYMBOLIC MANIPULATION OF DATA. THE CODE GENERATED BY XPL IS COMPETITIVE IN EFFICIENCY WITH GOOD ASSEMBLY LANGUAGE AND THE READABILITY OF XPL PROGRAMS IS VASTLY ENHANCED BY ITS HIGHER-LEVEL LANGUAGE STRUCTURE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER GORDO OPERATING SYSTEM. PROGRAM TYPE IS COMPILER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL (GORDO).
THE OBJECT CODE OUTPUT OF THE XPL (GORDO) COMPILER IS A CORE IMAGE FILE. TO ENHANCE PORTABILITY, THAT FILE DOES NOT ASSUME THE EXISTENCE OF ANY PARTICULAR OPERATING SYSTEM. IN PARTICULAR, A SMALL SYSTEM-INTERFACE ROUTINE (THE 'SUBMONITOR') MUST BE SUPPLIED AT EACH INSTALLATION USING XPL (GORDO).
- 890801 SIGMA 5-9 XPL
AUTHOR: O. LEACH
ABSTRACT:
XPL IS THE COMPILER GENERATOR AS DESCRIBED BY MCKEEMAN, HORNINO, AND WORTMAN. THE SIX MODULES MAKE UP A COMPLETE COMPILER WRITING SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE RBM OPERATING SYSTEM. THE TYPE OF PROGRAM IS A COMPILER. THE BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN IS MACROSYMBOL.
- 890802 SIGMA 5-9 XBASIC - BTM VERSION
AUTHOR: S. SLYKHOUS, UNIVERSITY OF CALIFORNIA AT IRVINE
ABSTRACT:
XBASIC IS AN EXTENDED VERSION OF XEROX BASIC. THE EXTENDED FEATURES INCLUDE STRING HANDLING, BOOLEAN VARIABLES AND THE ABILITY TO SAVE AND EDIT PROGRAMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS LANGUAGE PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
A MODIFIED UTS XEROX BASIC IS INCLUDED ON THE DISTRIBUTED TAPE AND THE FEATURES OF XBASIC AND THE MODIFIED UTS VERSION ARE DISCUSSED IN THE -11.
- 890804 SIGMA 8-9 GRAPHER
AUTHOR: V. HUBER, XEROX CORPORATION
ABSTRACT:
GRAPHER ANALYZES UTS ACCOUNTING LOG TO PRODUCE FIVE SETS OF REPORTS: BURST SHEET AND 1-LINE SUMMARY FOR EACH JOB, GRAPH OF JOBS IN EACH PARTION AND CPU UTILIZATION, SYSTEM PROFILE OF JOB SIZES AND COMPUTE BOUNDEDNESS CHARACTERISTICS, AND AN ACCOUNTING LOG SUMMARY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE.
GRAPHER IS USEFUL FOR SYSTEM TUNING AND SYSTEM SUMMARY, ESPECIALLY BATCH. THE USER IS PROVIDED WITH A CONCISE AND EXTENSIVE SUMMARY OF JOB AND SYSTEM CHARACTERISTICS AS WELL AS SYSTEM PERFORMANCE.
- 890808 SIGMA 5-9 FUNCTION TABLE PROCESSOR
AUTHOR: J. SAITO, NASA/AMES
ABSTRACT:
THE FUNCTION TABLE PROCESSOR IS A SINGLE PASS COMPILER THAT TRANSLATES FUNCTION AND ARGUMENT DESCRIPTION STATEMENTS AND GENERATES TABLES OF ARBITRARY FUNCTIONS OF ONE, TWO, AND THREE VARIABLES. THE OBJECT PROGRAM HAS THE CHARACTERISTICS OF A SUBROUTINE WHICH IS LOADED WITH THE USER'S PROGRAM TO BE ACCESSED BY THE FUNCTION GENERATION SUBROUTINES AT RUN TIME. THE FUNCTION GENERATION SUBROUTINES PERFORM TABLE LOOKUPS WHEN ENTERED AND RETURN A DATA VALUE FOR A SPECIFIED ARGUMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS COMPILER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890809 SIGMA 8-9 FAST SAVE/RESTORE - CP-V
AUTHOR: XEROX CORPORATION
ABSTRACT:
FAST SAVE/RESTORE IS A PROCESSOR SUPPLIED WITH UTS-D00 AND CP-V TO SAVE/RESTORE FILES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
FAST FPURGE RESTORE SHOULD RUN IN CONJUNCTION WITH A FAST FPURGE SAVE. A SAVE IS DELIVERED WITH THE RELEASE TAPE, BUT NOT SUPPORTED.
- 890810 SIGMA 5-9 FAST FPURGE RESTORE - BPM
AUTHOR: W. KRAUSS, XEROX
ABSTRACT:
FAST FPURGE RESTORE IS A PROCESSOR THAT WILL ALLOW THE USER TO RESTORE FILES TO A SYSTEM FROM FPURGE FORMATTED TAPES. THIS PROCESSOR WILL APPROACH TAPE SPEED DEPENDING UPON THE SATURATION OF THE SYSTEMS CURRENT DATA BASE. FAST FPURGE RESTORE SHOULD BE RUN AS THE ONLY USER IN THE SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 890812 SIGMA 5-9 RBM METASYMBOL
AUTHOR: J. GILLARD, XEROX CORPORATION
ABSTRACT:
THIS IS H00 METASYMBOL WHICH HAS BEEN MODIFIED TO USE RBM MODE CAL1'S AND HAS PAGE CONTROL AND CARD SEQUENCING ROUTINES. ALL TECH. BULLETINS THROUGH T810 ARE INCLUDED. THE MAJOR DIFFERENCES ARE THAT ALL SOURCE UPDATES MUST BE IN SEQUENCE, THE ACCOUNT OPTION, 'AC', FOLLOWS THE MACROSYM AND AP FORMATS, AND THE 'PD' OPTION HAS NOT BEEN IMPLEMENTED. INCLUDED WITH THE ASSEMBLER ARE THE REQUIRED SYSTEM FILES, SOURCE FILES, AND COMPRESSED FILES TO ALLOW THE USER TO RE-ASSEMBLE THE ENTIRE ASSEMBLER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE ASSEMBLER IS VERY LARGE AND SHOULD HAVE A BACKGROUND SIZE OF 18K WORDS OR LARGER.
THE FOLLOWING CHANGES WERE MADE TO THE TAPE:
1. THE FIRST THREE FILES NOW CONTAIN MORE THAN ONE ROM EACH.
2. LINES 8-12 WERE DELETED FROM FILE 15 (CCI SOURCE UPDATES) TO ALLOW PROPER ASSEMBLY.
3. FILES 26 & 28 WERE INTERCHANGED ON ORIGINAL RELEASE TAPE; THIS HAS BEEN CORRECTED.
IN ALL OTHER RESPECTS, THIS TAPE IS IDENTICAL TO THE 1ST ADD RELEASE.
- 890813 SIGMA 6-9 XEROX/COAST CAL/APL
AUTHOR: R. CHIENO, XEROX
ABSTRACT:
THE XEROX CAI PACKAGE IS CALLED CAL/APL STANDS FOR COMPUTER ASSISTED INSTRUCTION. THE PACKAGE CONTAINS 26 ENGLISH-LANGUAGE-LIKE INSTRUCTIONS, SUCH AS READ, SCAN, ETC. WITH THESE 26 INSTRUCTIONS, A NON-PROFESSIONAL PROGRAMMER IS ABLE TO ENTER INSTRUCTIONAL MATERIALS INTO COMPUTER FOR STUDENT INTERACTION. IT ALSO ALLOWS THE STUDENT TO USE THE TERMINAL AS A DESK CALCULATOR HAVING INSTANT FEEDBACK RESULTS. THE 26 INSTRUCTIONS WERE CODED UNDER APL. THERE IS ALSO A DEMO CALLED CALAPLDEMO IN THIS TAPE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE UTS OPERATING SYSTEM. PROGRAM TYPE IS CAI APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN APL.
- 890815 SIGMA 6-9 PRINT FORMS PROCESSOR
AUTHOR: CARLETON UNIVERSITY
ABSTRACT:
THIS PROCESSOR ALLOWS THE USER TO SUBMIT DISC OR TAPE FILES OF ANY SIZE TO THE OUTPUT SYMBIONT FOR PRINTING, EITHER WITH OR WITHOUT OPERATOR SETUP OF SPECIAL FORMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890816 SIGMA 6-9 DECLARE TEMPORARY FILES
AUTHOR: CARLETON UNIVERSITY
ABSTRACT:
THIS PROCESSOR ALLOWS THE USER TO DECLARE DISC FILES AS TEMPORARY SO THAT THEIR FILES WILL BE AUTOMATICALLY RELEASED AT THE END OF THE JOB. A FILE CAN BE OPENED AND CLOSED AGAIN WITHOUT BEING DELETED (COMPARE REL OPTION ON ASSIGN COMMAND) AND THE FILE WILL BE DELETED WHETHER THE JOB ABORTS OR TERMINATES NORMALLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890817 SIGMA 6-9 FILE DUMP
AUTHOR: CARLETON UNIVERSITY
ABSTRACT:
THIS PROCESSOR DUMPS SELECTED RECORDS FROM LABELLED TAPE OR RAD. THE PARAMETERS ALLOW FILEDUMP TO SKIP RECORDS, DUMP A SPECIFIED NUMBER OF RECORDS AND SEARCH FILE FOR SPECIFIED STRING BEFORE DUMP.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890818 SIGMA 6-9 CATALOG PROCEDURES
AUTHOR: CARLETON UNIVERSITY
ABSTRACT:
THE CATALOG PROCEDURES SYSTEM IS COMPRISED OF TWO PROGRAMS; CATALOG AND EXEC. THE PROGRAM CATALOG FORMS DISC FILES OF CONTROL CARD RUN DECKS. THE EXEC PROGRAM SUBMITS THE CATALOGED FILE TO THE BATCH STREAM. THE EXEC PROCESSOR ALSO WILL SUBSTITUTE NAMES IN THE FILE TO BE SUBMITTED TO THE BATCH STREAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890820 SIGMA 6-9 UTS FORM DATA ENTRY PACKAGE - FORM PAK
AUTHOR: P. KOPEL, J. BOREN, XEROX CORPORATION
ABSTRACT:
FORMPAK IS A SYSTEM OF PROGRAMS FOR ON-LINE ENTRY OF FORMS FROM A BEEHIVE MODEL IIIA ALPHANUMERIC DISPLAY TERMINAL TO A XEROX SIGMA 6,7, OR 9 COMPUTER OPERATING UNDER THE UTS MONITOR SYSTEM. THE SYSTEM CONSISTS OF TWO PARTS:
1.) AN INDEPENDENT PROGRAM (FORMGEN) WHICH ENABLES ON-LINE DEFINITION OF NEW FORMS AND MODIFICATION OF OLD ONES, AND

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- 890820 UTS FORM DATA ENTRY PACKAGE - FORM PAK (CONTINUED)
2.) A SET OF FORTRAN-CALLABLE SUBROUTINES (FORMLIB) WHICH ENABLE AN ON-LINE PROGRAM TO EASILY DISPLAY FORMS DEFINED WITH FORMGEN, READ THE FILLED-OUT FORMS, RETRIEVE INDIVIDUAL FIELDS FROM THE FORMS, AND CLEAR THE FORMS FOR REPEATED ENTRY. DATA MAY ALSO BE DISPLAYED IN ANY FIELD ON A FORM, AND ONE-LINE ERROR AND INSTRUCTIONAL MESSAGES MAY BE SENT TO THE TERMINAL WITHOUT DESTROYING THE FORM CURRENTLY DISPLAYED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLY OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
OPERATES UNDER UTS MINIMUM CONFIGURATION. REQUIRES ONE (OR MORE) BEEHIVE MODEL IIIA TERMINALS.
- 890823 SIGMA 5-9 SNOBOL4 VERSION 3.7
AUTHOR: DR. C. BARKER
ABSTRACT:
THIS IMPLEMENTATION OF SNOBOL4 IS A PROPER SUBSET OF THE SNOBOL4 LANGUAGE AS DESCRIBED IN GRISHOLD, POAGE, AND POLONSKY, THE SNOBOL4 PROGRAMMING LANGUAGE, 2ND ED., PRENTICE-HALL. ALL LANGUAGE FEATURES ARE IMPLEMENTED EXCEPT THE PRIMITIVE FUNCTION LOAD. SNOBOL4 WAS DEVELOPED AT BELL TELEPHONE LABORATORIES, INC.. IT CHARACTER-STRING OPERATIONS, RECURSIVE FUNCTIONS, TABLE STRUCTURES, USER-DEFINED DATATYPES AND SEMANTICALLY REDEFINABLE OPERATORS HAVE MADE IT A USEFUL TOOL IN SUCH AREAS AS COMPILATION TECHNIQUES, MACHINE SIMULATIONS, SYMBOLIC MATHEMATICS, TEXT PREPARATION, NATURAL LANGUAGE TRANSLATION, LINGUISTICS, AND MUSIC ANALYSIS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
(1) THIS IMPLEMENTATION HAS BEEN EXTENSIVELY CHECKED OUT, BUT ONLY ON A 84K SIGMA 7 RUNNING UNDER BPH IN AN EXCLUSIVELY BATCH ENVIRONMENT. BYTE-STRING AND FLOATING-POINT INSTRUCTIONS ARE FREELY USED.
(2) IN ORDER TO EXECUTE SUCCESSFULLY IN FEWER THAN ABOUT 28000 WORDS OF MEMORY, APPROPRIATE OPTIONS MUST BE USED ON THE PROCESSOR COMMAND CARD.
- 890826 SIGMA 5-9 ROM TAPE FILE UPDATE PROGRAM - ROMUP
AUTHOR: C. J. COMBIE, UNIVERSITY OF ALABAMA IN BIRMINGHAM
ABSTRACT:
ROMUP ENABLES ANYONE TO CONVENIENTLY MAINTAIN A TAPE FILE CONTAINING RELOCATABLE OBJECT MODULES (ROMS) OF FORTRAN SUBROUTINES. ROMUP WILL ALLOW ONE TO RECOMPILE ONLY THE SUBROUTINES WHICH CHANGE, ADD NEW SUBROUTINES, DELETE OLD SUBROUTINES, AND THEN RELOAD THE ROMS FROM THE OUTPUT TAPE OF THE ROMUP RUN.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MACROSYMBOL.
- 890828 SIGMA 5-9 SPLURGE FOR BPH
AUTHOR: B. GAY, BUCKNELL UNIVERSITY
ABSTRACT:
THE FUNCTION OF THE SPLURGE PROCESSOR IS TO PURGE UNWANTED FILES FROM THE SYSTEM'S MASS STORAGE MEDIA. SPECIFICATIONS OF ACCOUNTS AND FILE NAMES FOR FILES WHICH ARE TO REMAIN ARE INPUT AND THE UNDECLARED FILES ARE DELETED LEAVING ONLY THE DECLARED FILES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE BPH/BTH OPERATING SYSTEM. THE PROGRAM IS A UTILITY TYPE. THE BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN IS METASYMBOL.
- 890829 SIGMA 8-9 SPLURGE FOR UTS
AUTHOR: B. GAY, BUCKNELL UNIVERSITY
ABSTRACT:
THE FUNCTION OF THE SPLURGE PROCESSOR IS TO PURGE UNWANTED FILES FROM THE SYSTEM'S MASS STORAGE MEDIA. SPECIFICATIONS OF ACCOUNTS AND FILE NAMES ARE INPUT FOR FILES WHICH ARE TO REMAIN, AND THE UNDECLARED FILES ARE DELETED LEAVING ONLY THE DECLARED FILES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE UTS OPERATING SYSTEM. THIS PROGRAM IS A UTILITY TYPE. THE BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN IS METASYMBOL.
- 890831 SIGMA 7 IBM-XEROX APL WORKSPACE CONVERTER
AUTHOR: D. SMERESKI
ABSTRACT:
THE IBM XEROX APL WORKSPACE CONVERTER IS DESIGNED TO TAKE IBM-APL WORKSPACES FROM A SEL-DUMP TAPE (STANDARD BACKUP METHOD AT I.P. SHARP) AND CONVERT THEM TO FILES OF THE SAME NAME ON THE UTS FILE SYSTEM IN THE FORMAT OF XEROX-APL WORKSPACES. CONVERT MUST BE ENTERED AS A SHARED PROCESSOR WITH JIT ACCESS FOR IT TO WORK.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890832 SIGMA 8/7/9 IBM-XEROX APL FILE CONVERTER
AUTHOR: J. STANSBURY
ABSTRACT:
THE APL FILE CONVERTER (FCON) IS USED TO CONVERT THE APL FILES OF I.P. SHARP AND SCIENTIFIC TIME SHARING CORPORATION TO THE FORMAT USED BY XEROX UTS/APL. THE INPUT IS THE FSELDUMP TAPE CREATED BY EITHER OF THE ABOVE APL SERVICES. THE OUTPUT IS THE CONVERTED SET OF FILES ON A UTS SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS-000 OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 890833 SIGMA 5-9 PAPER TAPE READ PROGRAM - TRANSLT
AUTHOR:A. VANHOOSE III, UNIVERSITY OF ALABAMA IN BIRMINGHAM
ABSTRACT:
TRANSLT READS INFORMATION FROM PAPER TAPE TO MAGNETIC TAPE OR DISC IN THE SPECIFIED FORMAT. PAPER TAPES MAY BE ASCII OR EBCDIC CODING AS WELL AS FIXED-LENGTH BINARY RECORDS. THE OUTPUT MAY BE TO THE LINE PRINTER ALSO. OPTIONS ARE PROVIDED FOR BLOCKING THE OUTPUT RECORDS AS WELL AS STACKING THE OUTPUT FILE ONTO A MULTI-FILE TAPE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MACROSYMBOL.
- 890834 SIGMA 6-9 INTERACTIVE CRITICAL PATH
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
AN ON-LINE PROGRAM FOR ANALYSIS OF A PROJECT NETWORK. AVAILABLE COMMANDS ALLOW THE USER TO CREATE, EDIT, AND SAVE PERMINENT DISC FILES AS WELL AS EXECUTE THE ANALYZING PROGRAM OF THIS DATA AND LISTING RESULTS. THE MAXIMUM NUMBER OF ACTIVITIES PERMITTED IS ONE HUNDRED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890835 SIGMA 6-9 POLYNOMIAL CURVE FITTING
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
THE POLYNOMIAL CURVE FITTING PROCESSOR IS AN INTERACTIVE PROGRAM. AFTER UP TO 200 POINTS ON THE X-Y AXIS ARE DEFINED, THE POLYNOMIAL CURVE (UP TO THE 15TH DEGREE) IS FITTED TO THE X-Y POINTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS MATHEMATICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890836 SIGMA 6-9 INTERACTIVE MULTIPLE LINEAR REGRESSION
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
THIS PROCESSOR, REGRESS, PERFORMS MULTIPLE LINEAR REGRESSIONS IN TWO METHODS: THE ORDINARY LEAST SQUARES AND THE STEPWISE METHODS. UP TO 15 VARIABLES WITH EACH HAVING A MAXIMUM OF 200 OBSERVATIONS ARE PERMITTED. EDITING, LISTING, TRANSFORMING, AND SAVING THE DATA ARE OTHER OPERATIONS PROVIDED BY REGRESS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER THE UTS OPERATING SYSTEM. THE PROGRAM TYPE IS STATISTICAL APPLICATION.
- 890837 SIGMA 5-9 DISCRETE SIMULATION PACKAGE - SIMPAC
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
SIMPAC IS A FORTRAN CALLABLE PACKAGE OF 37 SUBPROGRAMS AND FUNCTIONS. THE MAJOR COMPONENTS OF SIMPAC ARE SERVICE ROUTINES FOR INITIALIZING AND DRIVING THE SIMULATION, UTILITY ROUTINES FOR FILE AND QUEUE MAINTENANCE, DATA COLLECTION ROUTINES, AND RANDOM NUMBER GENERATORS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC SUBROUTINES. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890838 SIGMA 6-9 INTERACTIVE CONTINUOUS SIMULATION
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
SIMULB IS A MODULAR PROGRAM ALLOWING THE USER CONSIDERABLE FLEXIBILITY IN SOLVING SYSTEMS OF DIFFERENTIAL AS WELL AS QUADRATURE EQUATIONS. THE SUBSYSTEMS INCLUDED FEATURE SAVE AND RETRIEVE MODELS, PLOTTING ON USERS TERMINAL AND FACILITIES TO DEFINE AND MODIFY MODELS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890839 SIGMA 6-9 INTERACTIVE ANALYSIS OF VARIANCE
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
A STANDARD ANALYSIS OF VARIANCE FOR GENERAL, COMPLETE DESIGNS WITH AN EQUAL NUMBER OF SCORES PER CELL. KEYWORDS ARE USED IN THE PROCESSOR TO ALLOW THE USER TO DEFINE, LIST, SAVE, AND EDIT THE INPUT TO BE ANALYZED. THE MAXIMUM NUMBER OF SCORES FOR ANYONE ANALYSIS IS 1000.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS STATISTICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890840 SIGMA 6-9 INTERACTIVE PLOTTING PROGRAM
AUTHOR:CARLETON UNIVERSITY
ABSTRACT:
THE PLOTTING PROGRAM PRODUCES TERMINAL-OUTPUT PLOTS. THE USER MAY INPUT UP TO 15 VARIABLES, EACH HAVING A MAXIMUM OF 100 VALUES. EACH PLOT MAY HAVE UP TO FOUR VARIABLES PLOTTING AGAINST ANY OTHER VARIABLE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

- 890841 SIGMA 8-9 INTERACTIVE CROSS TABULATION
AUTHOR: CARLETON UNIVERSITY
ABSTRACT:
AN INTERACTIVE CROSS TABULATION PROGRAM, MINITAB, WHICH IS CAPABLE OF HANDLING FILES INVOLVING AS MANY AS 48 VARIABLES. MINITAB HAS FACILITIES TO LIST, EDIT, RECODE, STORE AND RETRIEVE FILES AS WELL AS FACILITIES TO PRODUCE TABLES OF BOTH COUNTS AND PERCENTAGES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS STATISTICAL APPLICATION. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890843 SIGMA 5-9 CONTROL CARD FILER
AUTHOR: J.D. BILLINGS, XEROX CORPORATION
ABSTRACT:
A PROCESSOR WHICH READS CARDS, INCLUDING MONITOR CONTROL CARDS. OUTPUT CAN BE A FORMATTED PRINTER LISTING AND/OR A CONSECUTIVE FILE OF CARD-IMAGES AND/OR A READY-TO-EDIT KEYED FILE. PERFORMS AUTOMATIC LINE-NUMBERING, KEY GENERATION, AND CAN CONVERT ALL OR SELECTED PARTS OF THE INPUT DECK FROM FBCD TO BCD. CARDS ARE PLACED IN THE READER UPSIDE DOWN AND READ IN THE BINARY MODE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890846 SIGMA 5-9 ALTRAN RUN-TIME ROUTINES
AUTHOR: P. SHERROD, VANDERBILT UNIVERSITY
ABSTRACT:
METASYMBOL 'PRIMITIVE' ROUTINES FOR USE WITH THE ALTRAN PROCESSOR WHICH IS AVAILABLE FROM BELL LABS. ALTRAN IS A SOPHISTICATED LANGUAGE FOR ALGEBRAIC MANIPULATION OF SYMBOLIC POLYNOMIAL EXPRESSIONS. ALTRAN HAS FEATURES OF ALGOL (E.G., RECURSIVE PROCEDURES) AND FORTRAN AND INCLUDES A DATA TYPE 'ALGEBRAIC'. IT WILL AUTOMATICALLY FACTOR AND SIMPLIFY THE RESULTS OF ALGEBRAIC MANIPULATIONS OF POLYNOMIALS. ONE COULD, FOR EXAMPLE, EASILY FIND THE INVERSE OF A MATRIX EACH ELEMENT OF WHICH HAS A POLYNOMIAL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE ALTRAN PROCESSOR MAY BE REQUESTED BY WRITING TO: W.S. BROWN/ ALTRAN PROJECT/ BELL LABS; 800 MOUNTAIN AVENUE/ MURRAY HILL, NEW JERSEY 07974.
- 890850 SIGMA 5-9 UCLA BIOMEDICAL STATISTICAL PACKAGE-BMD
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE BMD PACKAGE IS A GROUP OF 63 GENERAL STATISTICAL PROGRAMS. THERE ARE SEVEN CLASSES OF PROGRAMS: DESCRIPTION AND TABULATION OF DATA, MULTIVARIANT ANALYSIS, REGRESSION ANALYSIS, TIME SERIES ANALYSIS, VARIANCE ANALYSIS, GUTMAN SCALE ANALYSIS, AND FACTOR ANALYSIS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER ALL OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL PROGRAMS. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THE PROGRAMS WILL RUN UNDER ALL PRESENT XEROX SYSTEMS AND COMPUTERS, INCLUDING THE 16-BIT COMPUTERS. THE -11 CONTAINS THE ADDRESS WHERE DOCUMENTATION MAY BE ORDERED FROM UCLA.
- 890858 SIGMA 8-9 DISPLAY SET DCB'S
AUTHOR: B. FINEMAN, UNIVERSITY OF VERMONT
ABSTRACT:
THIS PROCESSOR LISTS THOSE DCB'S WHICH HAVE BEEN MODIFIED BY A SET COMMAND DURING THE PRESENT LOG-ON SESSION. THE DEVICE OR FILE ASSIGNED TO THE DCB IS LISTED AS WELL AS THE OPTIONS SET.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890865 SIGMA 8/7/9 INTERACTIVE LEAST SQUARES CURVE FITTING
AUTHOR: D. OLECHNA, XEROX CORPORATION
ABSTRACT:
CURFTY IS AN INTERACTIVE CURVE-FITTING PROGRAM THAT USES THE LEAST SQUARES TO FIT TO FIT DATA FROM USER-CREATED FILES TO THE FOLLOWING CURVE TYPES:
1. $Y=A+BX$
2. $Y=AE^BX$
3. $Y=AXB$
4. $Y=A+(B/X)$
5. $Y=1/(A+BX)$
6. $Y=X/(A+BX)$
THE PROGRAM AUTOMATICALLY SORTS THE DATA IN ASCENDING ORDER OF X-VALUES. THE OUTPUT CONSISTS OF A AND B COEFFICIENTS AND AN INDEX OF DETERMINATION (WHICH APPROACHES UNITY FOR THE BEST FIT). THE USER IS PROVIDED WITH THE OPTIONS OF SEEING THE FULL DETAILS FOR EVERY DATA POINT OR LOOKING AT JUST THE HIGHLIGHTS. 200 POINTS MAXIMUM MAY BE FIT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

- 890866 SIGMA 8/7/9 INTERACTIVE MULTIPLE REGRESSION ANALYSIS
AUTHOR:D. OLECHNA, XEROX CORPORATION
ABSTRACT:
MULFIT INTERACTIVELY PERFORMS A MULTIPLE REGRESSION ANALYSIS FOR AS MANY AS SIX INPUT VARIABLES WITH THE OPTION THAT THE INPUT VARIABLES CAN BE TRANSFORMED. SIXTEEN RELATIONSHIPS ARE PROVIDED FOR TRANSFORMATION, ALONG WITH TWO TEMPORARY STORAGE LOCATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890867 SIGMA 8/7/9 INTERACTIVE STEPWISE REGRESSION PROGRAM
AUTHOR:D. OLECHNA, XEROX CORPORATION
ABSTRACT:
STEP IS AN INTERACTIVE PROGRAM THAT PERFORMS STEPWISE REGRESSION ON USER CREATED FILES. USER HAVE THE OPTIONS OF SPECIFYING VARIABLES TO BE FORCED INTO THE REGRESSION, DELETING VARIABLES, NAMING ANY VARIABLE AS THE DEPENDENT VARIABLE, AND LIMITING THE VARIABLES ENTERING THE REGRESSION. IF TRANSGENERATION OF THE DATA IS DESIRED EITHER OF THE PROGRAMS TRAN OR TRANB (CAT.NO. 890868) MAY BE USED BEFORE USING STEP.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890868 SIGMA 8/7/9 INTERACTIVE TRANSGENERATION
AUTHOR:D. OLECHNA, XEROX CORPORATION
ABSTRACT:
TRAN AND TRANB ARE TWO INTERACTIVE PROGRAMS THAT PERMIT THE USER TO TRANSFORM DATA STORED IN HIS FILE AND STORE THE RESULT IN A FILE THAT MAY NOT HAVE THE SAME NAME AS HIS INPUT FILE. EIGHTEEN RELATIONSHIPS ARE PROVIDED FOR TRANSFORMATION ALONG WITH TWO TEMPORARY STORAGE LOCATIONS. TRAN IS INTENDED FOR SMALL DATA SETS (MAX. OF 6X250) AND TRANB FOR LARGER ONES (MAX. OF 20X500). UP TO TRANSFORMATIONS MAY BE MADE WITH EITHER PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890869 SIGMA 8/7/9 MOMENTS OF INERTIA & RADIUS OF GYRATION
AUTHOR:A. FUKS AND H. WHITES, XEROX CORPORATION
ABSTRACT:
MOMENTS IS AN INTERACTIVE PROGRAM THAT ENABLES THE USER TO CALCULATE CENTER OF GRAVITY, POLAR MOMENT OR INERTIA ABOUT THE CENTER OF GRAVITY AS WELL AS ABOUT AXIS OF ROTATION, AND RADIUS OF GYRATION OF BOTH THE CENTER OF GRAVITY AND AXIS OF ROTATION OF ANY GIVEN THREE-DIMENSIONAL OBJECT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890870 SIGMA 5-9 CLEBSCH-GORDAN SUBROUTINE
AUTHOR:N. LIPARI, XEROX CORPORATION
ABSTRACT:
THIS FORTRAN CALLABLE SUBROUTINE CALCULATES THE CLEBSCH-GORDAN COEFFICIENTS AS DEFINED IN [THE THEORY OF ATOMIC SPECTRA], BY E.U. CONDON AND G.H. SHORTLY (P.75, 1967 EDITION).
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, RBM AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC SUBROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THE CALLING PROGRAM MUST SUPPLY PARAMETERS NJ1, NJ2, M1, M2, NJ, M. SUBROUTINE CLEBSH RETURNS THE COEFFICIENTS C0C AND C3J AS DEFINED IN THE REFERENCE ABOVE. CLEBSH USES SUBROUTINE FACT WHICH IS INCLUDED IN THE SUPPLIED SOURCE MODULE.
- 890871 SIGMA 8/7/9 GRAPHICS SUBROUTINES
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS SET OF FORTRAN-CALLABLE SUBROUTINES SUPPLEMENTS THE STANDARD CALCOMP GRAPHICS SUBROUTINES. THE FOLLOWING FUNCTIONS ARE PROVIDED: CONTOUR MAPPING; THREE-DIMENSIONAL SURFACE PROJECTION; LOGARITHMIC GRIDS; PROBABILITY AXIS, GRID, AND CURVE PLOTTING; INTEGER AXIS ANNOTATION; DASHED LINE GENERATORS; AND A SIMPLIFIED GRAPH PLOTTING PACKAGE.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THE SUPPLIED PACKAGE CONTAINS TEN SUBROUTINES WHICH CAN BE IMPLEMENTED INDIVIDUALLY OR AS A COMPLETE SUPPLEMENTARY GRAPHICS LIBRARY. ALL OF THE SUBROUTINES CALL ONE OR SEVERAL OF THE BASIC CALCOMP PROGRAMS WHICH MUST BE ORDERED AND IMPLEMENTED SEPARATELY BECAUSE THEY ARE INSTALLATION DEPENDENT (HARDWARE AND OPERATING SYSTEM).
- 890872 SIGMA 8/7/9 GRAPHIC VECTOR FILE
AUTHOR:J. GILL, XEROX CORPORATION
ABSTRACT:
THE GRAPHIC VECTOR FILE REMOVES DEVICE DEPENDENCY FROM PLOTTING PROGRAM EXECUTION. CALLS TO CALCOMP SUBROUTINES ARE STORED IN THE FILE, WHICH MAY SUBSEQUENTLY BE USED ON THE MOST AVAILABLE AND/OR THE MOST APPROPRIATE PLOTTING DEVICES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE

890872 CONTINUED ON FOLLOWING PAGE

- 890872 GRAPHIC VECTOR FILE (CONTINUED)
MAIN PROGRAM IS WRITTEN IN FORTRAN.
THE VECTOR FILE CAN BE SAVED, EDITED, AND REUSED ON DIFFERENT DEVICES BY RUNNING DIFFERENT CONVERSION PROGRAMS.
- 890873 SIGMA 5-9 SIM519
AUTHOR:D. PETERS, XEROX CORPORATION
ABSTRACT:
SIM519, WHICH IS THE 519 SIMULATOR, PROVIDES SIGMA USERS WITH CARD TO CARD FUNCTIONS SIMILAR TO THOSE OF AN IBM 519 REPRODUCING PUNCH, I.E., 80-80 REPRODUCE, OFF-SET REPRODUCE, GANG-PUNCH EMIT, AND SETTING OR CLEARING ZONE PUNCHES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN COBOL.
- 890876 SIGMA 5 METASYMBOL SOURCE PROGRAM COMPARER
AUTHOR:A. GROMMA, STANFORD LINEAR ACCELERATOR CENTER
ABSTRACT:
THIS PROGRAM WILL COMPARE TWO METASYMBOL (OR FORTRAN) SOURCE FILES (PRESUMABLY TWO VERSIONS OF THE SAME PROGRAM), AND WILL OUTPUT AN UPDATE DECK (IN METASYMBOL UPDATE FORMAT) SUFFICIENT TO TRANSFORM THE FIRST SOURCE FILE INTO THE SECOND. THE LISTING OF THIS UPDATE DECK CAN OPTIONALLY INCLUDE LINES DELETED FROM THE FIRST SOURCE FILE. THE SOURCE FILES CAN BE EITHER EBCDIC OR COMPRESSED, AND CAN BE EITHER BLOCKED OR UNBLOCKED.
THE PROGRAM IS INTENDED TO BE HELPFUL IN MAINTAINING SUCCESSIVE RELEASES OF MANUFACTURER-SUPPLIED SOFTWARE THAT HAS BEEN HEAVILY MODIFIED BY THE USER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM OCCUPIES 4 PAGES, AND USES M:GP TO GET ALL AVAILABLE PAGES FOR WORKSPACE. THE PROGRAM DOES NOT USE BYTE STRING INSTRUCTIONS. CODE HAS BEEN ADDED TO THE CURRENT VERSION (B00) TO PRODUCE THE (BEST POSSIBLE) (I.E., MINIMAL) OUTPUT.
- 890877 SIGMA 5-9 BROWSE - INTERACTIVE INDEXED TEXT SYSTEM
AUTHOR:R. SAUVAIN, XEROX CORPORATION
ABSTRACT:
BROWSE IS AN INFORMATION STORAGE AND RETRIEVAL SYSTEM FOR PERSONAL OR SMALL GROUP WORK WITH KEYWORD INDEXED TEXT ITEMS. ITEMS ARE FREE-FORMAT, AND MAY HAVE ANY NUMBER OF KEYWORDS ATTACHED. RETRIEVAL IS BY KEYWORD OR ITEM NUMBER. THE SYSTEM IS DESIGNED FOR EASY INTERACTIVE USE FROM A TERMINAL; FOR BEING ABLE TO SCAN QUICKLY THROUGH RELATED MATERIAL. AN ALPHABETICAL DISPLAY OF CURRENT KEYWORDS IS PROVIDED TO AID IN INDEXING AND RETRIEVAL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION-ORIENTED PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. OPERATES UNDER UTS MINIMUM CONFIGURATION; MAY BE USED ON-LINE OR IN BATCH. USES KEYED FILES. DATA BASE IS LIMITED TO 9999 ITEMS; KEYWORDS MAY BE FROM 1 TO 19 CHARACTERS IN LENGTH.
- 890878 SIGMA 5-9 TRISTIMULUS TO MUNSELL COLOR TRANSLATOR
AUTHOR:L. MARKS, XEROX CORPORATION
ABSTRACT:
THE TABLES DEFINING THE TRANSFORMATION FROM C.I.E. CHROMATICITY COORDINATES TO MUNSELL HUE AND CHROMA ARE SUMMARIZED BY POLYNOMIAL FITTING TECHNIQUES. THE POLYNOMIAL FORM GIVES AN EFFICIENT PROCEDURE FOR A TWO-WAY TRANSFORM. THE SMOOTHNESS OF THE POLYNOMIAL APPROXIMATIONS ALLOWS THE JACOBIAN OF THE (FORWARD) TRANSFORM (C.I.E. TO MUNSELL) TO BE ESTIMATED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS SCIENTIFIC SUBROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890881 SIGMA 5-9 DEMAND PAGED FORTRAN ARRAYS
AUTHOR:V. HUBER, XEROX CORPORATION
ABSTRACT:
PROVIDES A RELATIVELY SIMPLE METHOD FOR FORTRAN PROGRAMMERS TO HANDLE ARRAYS THAT DO NOT FIT IN UTS VIRTUAL CORE. A DEMAND PAGING SCHEME ATTEMPTS TO MAINTAIN IN CORE THOSE PAGES THAT ARE USED MOST FREQUENTLY WHILE LESS FREQUENTLY USED PAGES ARE MAINTAINED IN A DISC FILE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/BTM/UTS OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY ROUTINES. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890890 SIGMA 5-9 UCLA BIOMEDICAL PROG.-REGULAR & X SERIES
AUTHOR:D. PALMER, VANDERBILT UNIVERSITY
ABSTRACT:
THE UCLA BMD BIOMEDICAL SERIES CONSISTS OF OVER 50 STATISTICAL ANALYSIS PROGRAMS. THESE ROUTINES ARE AS DESCRIBED IN THE UCLA BMD MANUAL, 3RD EDITION (DATED JANUARY 1, 1973), AS PUBLISHED BY THE UNIVERSITY OF CALIFORNIA PRESS. AN EFFORT WAS MADE TO RETAIN ALL OF THE FEATURES OF THE UCLA PROGRAMS. AS A RESULT, SOME METASYMBOL ROUTINES WERE WRITTEN TO HANDLE CHARACTER (BYTE) MANIPULATION, AND THE FORTRAN LIBRARY ROUTINE 9EDIT WAS MODIFIED SO AS TO DISTINGUISH ZEROS FROM BLANKS ON INPUT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPH/CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL ANALYSIS PROGRAMS. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
THIS VERSION REPLACES THE BMD REGULAR AND X-SERIES PROGRAMS AS DESCRIBED IN THE 2ND EDITION OF THE BMD MANUAL AND THE BMDX MANUAL. THESE PROGRAMS WILL RUN UNDER BPH, UTS, AND CP-V OPERATING SYSTEMS.

- 890894 SIGMA 5-9 APEXTCLP
AUTHOR:G. JUNG, RANK XEROX
ABSTRACT:
APEXTCLP USES AP CONCORDANCE LISTINGS (GENERATED BY THE AP DC OPTION) OF MULTI-MODULE PROGRAMS AS INPUT AND GENERATES A GLOBAL CONCORDANCE LIST OF ALL EXTERNAL LINKAGES AS INDICATED BY THE DIRECTIVES DEF, REF, SREF OR DSECT. EVEN THOUGH APEXTCLP ACCEPTS ONLY CONCORDANCE LISTINGS GENERATED BY AP, IT MAY BE USED TO PRODUCE GLOBAL CONCORDANCE LISTINGS OF MULTI-MODULE PROGRAMS CONSISTING OF ASSEMBLY PROGRAMS, OR FORTRAN PROGRAMS, OR BOTH. IN CASE OF FORTRAN PROGRAM MODULES THE PROGRAM LOINTOS1 RECONSTRUCTS AN AP PROGRAM FROM THE FORTRAN LO LISTING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XEROX AP.
APEXTCLP IS AN EXTREMELY USEFUL DEBUGGING TOOL FOR LARGE MULTI-MODULE PROGRAMS WITH MANY EXTERNAL LINKAGES.
- 890895 SIGMA 5/7/9 AUTOMATED PROCUREMENT STATUS (APS) SYS.
AUTHOR:J. MYCKLEBY
ABSTRACT:
THE AUTOMATED PROCUREMENT STATUS (APS) SYSTEM IS A COLLECTION OF PROGRAMS THAT PROVIDE PRINTED PURCHASE ORDERS, CHANGE NOTICES, COMPLETE HISTORICAL DATA, VENDOR AND BUYERS PERFORMANCE RECORDS, AUTOMATED EXPEDITING, AND ON-LINE RECEIVING OF MATERIAL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMERCIAL APPLICATION PROGRAM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN COBOL.
OPERATES UNDER CP-V AND IS CURRENTLY BEING CONVERTED TO RUN WITH EDMS FILES. ADDITIONAL DOCUMENTATION IS AVAILABLE IN THE FORM OF UNPUBLISHED TECHNICAL DOCUMENTATION. THIS ELEMENT, -02, CAN BE ORDERED AFTER VERIFYING THE APPLICABILITY OF THIS SYSTEM.
- 890910 SIGMA 5-9/550/560 XEROX TO CONTROL DATA RJE (XCDRJE)
AUTHOR:L. WINCKLER, XEROX CORPORATION
ABSTRACT:
XCDRJE GIVES ANY XEROX COMPUTER RUNNING CP-V/ADI THE ABILITY TO FUNCTION AS A REMOTE JOB ENTRY STATION TO CONTROL DATA COMPUTERS. XCDRJE CONSISTS OF THREE MODULES: CDCSEND - TAKES A USER SPECIFIED INPUT FILE AND CONVERTS IT TO EXTBCD AND BLOCKS THE DATA TO BE SENT TO CDC; CDCCOM - PERFORMS THE ACTUAL COMMUNICATIONS LINK BETWEEN THE COMPUTERS, SENDS JOBS AND RECEIVES THE OUTPUT FROM THE JOBS THAT ARE EXECUTED AT CDC; CDCREC - RETRIEVES THE INFORMATION RETURNED FROM CDC, DECOMPRESSES AND CONVERTS IT TO BE DIRECTED TO WHERE THE USER SPECIFIES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS COMMUNICATIONS PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
XCDRJE OPERATES UNDER CP-V/ADI CONCURRENT WITH ALL OTHER FUNCTIONS (BATCH, TIME-SHARING, ETC.). A HALF-DUPLEX XEROX/7601 DATA SET CONTROLLER IS USED FOR COMMUNICATION.
- 890916 SIGMA 5/7/9 FRAN
AUTHOR:D. GERMAN, DIECOMP, INC.
ABSTRACT:
THIS PROGRAM, RUNNING AS A GHOST IN BATCH OR ONLINE, LISTS LABELS ON LABEL TAPE (INCLUDING FSAVE TAPES) TO M:LL DEVICE WHICH CAN BE ASSIGNED TO A FILE. FILE ORGANIZATION, TAPE RECORDS, AND BYTE SIZE ARE LISTED. OPTIONALLY, READ-WRITE ACCOUNTS AND/OR PASSWORDS CAN BE LISTED. FRAN OPENS TAPE AS DEVICE 9T, SCRATCH TAPE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER UTS-D00 OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890923 SIGMA 5-9 XPL/S COMPILER
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON/ C.CODLING, XEROX CORPORATION
ABSTRACT:
XPL/S IS A SYSTEMS IMPLEMENTATION LANGUAGE FOR THE SIGMA 5-9 SERIES. THE CLASS OF SYSTEMS WHOSE IMPLEMENTATION MAY BE EXPEDITED THROUGH THE USE OF XPL/S INCLUDES TABLE-DRIVEN COMPILERS, INTERPRETERS, TEXT PROCESSORS, AND FILE MANIPULATION SYSTEMS. FEATURES OF THE LANGUAGE INCLUDE DATA TYPES THAT MAKE USE OF THE SIGMA BYTE, HALFWORD, AND STACK ADDRESSING HARDWARE, DIRECT ACCESS TO SHIFT INSTRUCTIONS, A GOOD VARIETY OF CONTROL STRUCTURES, INCLUDING CASE, ITERATION, CONDITIONAL, LOOP AND EXIT. EXTERNAL PROCEDURES AND DATA MAY BE DEFINED. CHARACTER STRING DATA TYPE AND STRING MANIPULATION FACILITIES ARE PROVIDED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, RBM, AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS COMPILER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL/S.
XPL/S IS RELATED TO XPL, AND IS A DIALECT OF PL/1. THE COMPILER IS, OF COURSE, SELF-COMPILING. RE-ENTRANT CODE WITH APPROPRIATE ACCESS TYPE IS PRODUCED. A RUNTIME LIBRARY IS REQUIRED AND IS SUPPLIED IN RBM AND CP-V/BPM/BTM VERSIONS. THE XPL/S COMPILER AND ALL PROGRAMS WRITTEN IN XPL/S MAY BE RUN AS SHARED PROCESSORS UNDER CP-V. THE RUN SUBSYSTEM MUST BE USED WITH BTM.
- 890920 SIGMA 5/7/9 BATQXCH - BATCH QUEUE EXCHANGER
AUTHOR:C. CODLING, XEROX CORPORATION
ABSTRACT:
CURRENTLY UTS/CP-V ALLOWS COMPUTE-BOUND USERS TO BE SCHEDULED AS A SINGLE QUEUE OR WITH ON-LINE USERS HIGHER IN PRIORITY THAN BATCH USERS. BATQXCH ALLOWS THE SCHEDULING QUEUES TO BE ALTERED SO THAT BATCH COMPUTE-BOUND USERS MAY BE HIGHER IN PRIORITY THAN ON-LINE. IT ALSO ALLOWS THE QUEUES TO BE SET TO ANY SETTING AND TO BE DISPLAYED.
COMMENTS:

890920 CONTINUED ON FOLLOWING PAGE

- 890928 BATQXCH - BATCH QUEUE EXCHANGER (CONTINUED)
THIS PROGRAM WILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS SERVICE ROUTINE. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
BATQXCH OPERATES EITHER ON-LINE OR AS A GHOST JOB.
- 890929 SIGMA 6/7/9 APL LEARNING AID - CLASS, APL COURSE
AUTHOR:H. SCHLAIFER, XEROX CORPORATION
ABSTRACT:
THESE APL WORKSPACES ARE USED IN CONJUNCTION WITH THE APL VIDEOTAPE COURSE BY ALLEN ROSE AND THE PRINTED
VERSION OF THE VIDEOTAPE COURSE ENTITLED APL/360 AN INTERACTIVE APPROACH BY LEONARD GILMAN AND ALLEN
ROSE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS APPLICATION PROGRAM. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN APL.
THESE WORKSPACES WERE OBTAINED FROM XEROX ROCHESTER AND HAVE BEEN CONVERTED TO RUN USING XEROX APL. THE
USER SHOULD USE A 2741-COMPATIBLE TERMINAL WITH AN APL TYPE BALL.
- 890930 SIGMA 6/7/9 GRAN
AUTHOR:D. GERMAN, DIECOMP CORPORATION
ABSTRACT:
THIS PROGRAM, OPERATING ONLINE OR AS A GHOST, GIVES THE SYSTEM MANAGER DIRECT ACCESS TO ANY DISC
GRANULE. GRAN REQUIRES CO PRIVILEGE SINCE IT GOES INTO MASTER MODE ONLY TO CHECK A GIVEN DISC ADDRESS,
USING CHECKDA, AND TO QUEUE DISC I/O.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
IS WRITTEN IN METASYMBOL.
- 890933 SIGMA 5-9 NSP
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON
ABSTRACT:
THIS IS THE PROGRAM DESCRIBED BY MCKEEMAN, HORNING, AND WORTHMAN IN THEIR BOOK, A COMPILER GENERATOR,
PRENTICE-HALL, 1970. THE PROGRAM BUILDS TABLES FOR A PARSER THAT OPERATES BY THE MIXED STRATEGY
PRECEDENCE ALGORITHM.
COMMENTS:
THIS PROGRAM IS A USEFUL TOOL IN THE CONSTRUCTION OF TABLE DRIVEN COMPILERS. IT IS NOT REQUIRED IN
CONJUNCTION WITH THE XPL/S COMPILER UNLESS CHANGES IN THE GRAMMAR ARE CONTEMPLATED.
- 890934 SIGMA 5-9 XPLSREF
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON
ABSTRACT:
CROSS REFERENCE OF IDENTIFIERS IN AN XPL/S SOURCE PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM, RBM, AND CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL/S.
- 890935 SIGMA 5-9 XPLSFMT
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON
ABSTRACT:
THIS PROGRAM REFORMATS XPL/S SOURCE PROGRAM TEXT, INDENTING TO EXHIBIT PROGRAM STRUCTURE. IT IS A
USEFUL TOOL IN THE DEVELOPMENT AND MAINTENANCE OF XPL/S SOURCE PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN BPM, RBM, AND CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN XPL/S.
- 890936 SIGMA 5-9 MERGE
AUTHOR:G. LEACH, UNIVERSITY OF WASHINGTON
ABSTRACT:
THIS PROGRAM PROVIDES A NUMBER OF USE FACILITIES FOR THE MANIPULATION OF CARD-IMAGE FILES ON BOTH TAPE
AND RAD.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
IS WRITTEN IN XPL/S.
- 890938 SIGMA 7/8/9 FLASH - TAPE TO PRINT UTILITY
AUTHOR:XEROX CORPORATION
ABSTRACT:
FLASH IS A TAPE TO PRINT UTILITY WHICH BYPASSES THE SYMBIONT SYSTEM. AS WELL AS PERMITTING THE PRINTING
OF LARGE REPORTS, FLASH PROVIDES THE USER WITH OPTIMUM LINE PRINTER THROUGHPUT, MINIMAL RESOURCE
REQUIREMENTS, AND AN EASY OPERATOR INTERFACE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN METASYMBOL.
FLASH REQUIRES A 5-CARD PATCH TO IOQ FOR PRE CP-V/800 SYSTEMS.

- 890940 SIGMA 5-9 SOLE: SIGMA OBJECT LANGUAGE EATER
AUTHOR: R. LOVESTEDT, UNIVERSITY OF WASHINGTON
ABSTRACT:
SOLE (SIGMA OBJECT LANGUAGE EATER) IS A BASIC PROCESSOR FOR THE HANDLING OF SIGMA ROM'S. IN IT'S CURRENT STATE, SOLE ONLY PROVIDES ENGLISH INTERPRETING OF THE LOAD CODE AND BASIC ERROR CHECKING; HOWEVER, THE PROCESSOR IS STRUCTURED TO ALLOW MODIFICATIONS AND ADDITIONS TO BE EASILY MADE BY THE USER. SUCH EXTENSIONS MIGHT INCLUDE EXTERNAL SYMBOL ITEMIZATION, ROM LOAD ITEM PATCHING, LOADERS, OR LIBRARY MAINTENANCE AND HANDLING SYSTEMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM, RBM AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XPL/S. THIS PROCESSOR WILL RUN UNDER ANY OPERATING SYSTEM WHICH SUPPORTS XPL/S. SOLE WILL PROCESS ONE ENTIRE FILE, WHICH MAY CONSIST OF ANY NUMBER OF ROM'S. XPL/S IS CATALOG NUMBER 890923.
- 890941 SIGMA 6/7/9 SFTRAN
AUTHOR: A. IRVINE/B. NELSON/C. RIGGINS, JET PROPULSION LAB.
ABSTRACT:
A PREPROCESSOR TO THE FORTRAN IV COMPILER WHICH ALLOWS THE FORTRAN PROGRAMMER TO USE ALGOL 60 OR PL/1 LIKE-STRUCTURED CONSTRUCTS SUCH AS DO WHILE AND IF THEN...ELSE. THESE CONSTRUCTS ARE TRANSLATED INTO FORTRAN STATEMENTS FOR LATER PROCESSING BY THE FORTRAN COMPILER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN. SFTRAN OPERATES UNDER BPM MINIMUM CONFIGURATION. IT IS CODED ENTIRELY IN FORTRAN AND IS RELATIVELY MACHINE INDEPENDENT.
- 890942 SIGMA 5-9 SYMCON (BPM/BTM)
AUTHOR: P. BECKER, MARTIN-MARIETTA CO.-D. LAMPSON, XEROX CORPORATION
ABSTRACT:
THE SYMBOL CONTROL PROCESSOR (SYMCON) PROVIDES A MEANS OF CONTROLLING THE EXTERNAL SYMBOLS IN A LOAD MODULE. IT'S PRIMARY FUNCTION IS TO GIVE THE PROGRAMMER A MEANS OF PREVENTING DOUBLE DEFINITIONS OF EXTERNAL SYMBOLS. SYMCON (BPM/BTM) IS A CONVERSION OF CP-V SYMCON, AND WILL RUN EITHER IN THE BATCH MODE OR ON-LINE UNDER THE RUN SUBSYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. REFERENCES TO INSTRUCTIONS FOR THE USE OF SYMCON SHOULD BE TO THE CP-V BATCH REFERENCE MANUAL (901784). THE DELTA COMMANDS BUILD AND DISCARD HAVE BEEN DISABLED AND THEIR USE WILL GIVE THE ILLEGAL OPTION MESSAGE.
- 890944 SIGMA 6/7/9 TIMESHARING SIMULATOR
AUTHOR: H. KRAUSS, XEROX CORPORATION
ABSTRACT:
THE TIMESHARING SIMULATOR (TSS) WILL ENABLE THE CONTROLLED SIMULATION OF TIMESHARING WITHOUT ADDITIONAL HARDWARE OR PEOPLE. ANY NUMBER OF LINES, UP TO 64 FOR CP-V 400/800, AND ALL TYPES OF INTERACTION CAN BE SIMULATED. ALL INTERACTION MUST BE DESCRIBED IN A FILE, AND EACH LINE MUST BE DEFINED. ANY FACILITY AVAILABLE TO A TERMINAL USER CAN BE UTILIZED BY TSS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE HARDWARE CONFIGURATION MUST INCLUDE A 7611. THE USER MUST SYSOEN FOR THE MAXIMUM NUMBER OF USERS THAT WILL BE SIMULATED, BUT THE ACTUAL PHYSICAL LINES DO NOT HAVE TO EXIST. THE SIMULATOR ASSUMES A STANDARD CLOCK4 AND COC HANDLER. NO 2741 LINES.
- 890953 SIGMA 6-9 1200 LISTER
AUTHOR: A. JETER, XEROX CORPORATION
ABSTRACT:
1200 LISTER TAKES A NON-COMPRESSED EBCDIC TAPE OR A UTILIST-FORMAT COMPRESSED TAPE AND BLOCKS IT ONTO A TAPE FOR USE ON THE XEROX 1200 COMPUTER PRINTING SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE INPUT TAPE MUST BE A CP-V LABELED TAPE. THE OUTPUT TAPE WILL BE AN UNLABELED TAPE.
- 890954 SIGMA 6-9 AUTO SCHEDULE
AUTHOR: A. JETER, XEROX CORPORATION
ABSTRACT:
THE AUTO SCHEDULE PROGRAM, WHEN ACTIVATED AS A GHOST, ALLOWS JOBS TO BE SCHEDULED UP TO A MONTH AHEAD.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. USE :SYS,LBE AS AN AUTHORIZED ACCOUNT AT CO PRIVILEGE. TAPE ALSO CONTAINS STJOB GENERATOR PROGRAM, VALUED FILE SAVE/DELETE PROGRAM, AND SAVE TAPE ANALYZE PROGRAM.
- 890955 SIGMA 5-9 BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE
AUTHOR: D. PALMER, VANDERBILT UNIVERSITY
ABSTRACT:
BLOCKER IS A ROUTINE THAT ENABLES DATA FILES TO BE BLOCKED OR UNBLOCKED ACCORDING TO USER

890955 CONTINUED ON FOLLOWING PAGE

- 890955 BLOCKER-FILE BLOCKING/UNBLOCKING ROUTINE (CONTINUED)
SPECIFICATIONS. THIS PROGRAM IS DESIGNED TO BE USED WITH FIXED-LENGTH RECORDS IN FILES WHOSE BLOCKING
FACTOR IS (OR WILL BE) SOME INTEGRAL VALUE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM, CP-V, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890956 SIGMA 5-9 SCOMPARE-SOURCE FILE COMPARISON PROGRAM
AUTHOR:P. GOODWIN, XEROX CORPORATION
ABSTRACT:
SCOMPARE COMPARES TWO SOURCE FILES AND PRODUCES A LIST OF THEIR DIFFERENCES. SCOMPARE REALIGNS ITSELF
TO HANDLE MISSING AND ADDED RECORDS AS WELL AS MODIFIED RECORDS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN BASIC.
SCOMPARE IS ESPECIALLY HELPFUL WHEN TRYING TO FIND ALL THE CHANGES FROM ONE VERSION OF A FILE TO THE
NEXT. SPECIAL OPTIONS INCLUDE SELECTING SPECIFIC COLUMNS OF INTEREST, IGNORING BLANKS, AND COMPRESSING
BLANK FIELDS TO A SINGLE BLANK FOR COMPARISON.
- 890958 SIGMA 5-9 SYSTEM RBM
AUTHOR:D. TERRY, UNIVERSITY OF WASHINGTON
ABSTRACT:
SYSTEM RBM IS A MACRO LIBRARY PROVIDING CALLS AND FPTs FOR MOST OF THE RBM MONITOR FUNCTIONS. THE
MACROS PROVIDE BOTH EASIER AND BETTER DOCUMENTATION OF THE RESULTING CODE. MACRO BODY LISTING CONTROL
AND LIST AND EXECUTE FORMS ARE PROVIDED. IN ADDITION, LABELS MAY BE CODED FOR ANY OF THE WORDS IN THE
FPT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS MACRO LIBRARY. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN AP.
SYSTEM RBM REQUIRES AP VERSION B00, AND IS COMPATIBLE WITH THE PARTIAL SYSTEM RBM PROVIDED FOR INTERNAL
USE BY AP IF LINES 594 AND 595 ARE DELETED FROM APROOT. SYSTEM RBM IS THE MACRO LIBRARY USED BY XPL/S
(890923-A00). COMPATIBILITY WITH BPM WAS ATTEMPTED. THOSE MACROS DEALING SOLELY WITH ECB RELATED
FUNCTIONS OR IOEX ARE NOT INCLUDED, BUT COULD BE MODELED AFTER EXISTING MACROS IF NEEDED.
- 890959 SIGMA 5-9 SYSTEM XPL/S
AUTHOR:R. LOVESTEDT, UNIVERSITY OF WASHINGTON
ABSTRACT:
SYSTEM XPL/S IS A MACRO LIBRARY THAT FACILITATES THE WRITING OF XPL/S COMPATIBLE ASSEMBLY LANGUAGE
PROGRAMS. IT IS WRITTEN FOR USE WITH EITHER B00 AP OR H01 METASYMBOL. MACROS ARE PROVIDED TO DEFINE A
PROCEDURE, RETURN FROM A PROCEDURE, CALL A PROCEDURE, DEFINE A STRING, AND TO CONCATENATE STRINGS. IN
ADDITION, A SYMBOL IS PROVIDED FOR THE STANDARD FUNCTION VALUE RETURN REGISTER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM, RBM, AND CP-V OPERATING SYSTEMS. PROGRAM TYPE IS MACRO LIBRARY. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN AP AND METASYMBOL.
THE GENERAL SYSTEM IS DOCUMENTED IN THE ENCLOSED CSL TN 73, HOWEVER, SOME DIFFERENCES EXIST FOR THE
MULTI-OPERATING SYSTEM VERSION. THE THREE SYMBOLS RBM, BPM, AND CP-V ARE DEFINED TO ALLOW THE
DETERMINATION OF OPERATING SYSTEM ENVIRONMENT. ONE SYMBOL MUST BE SET TO 1, THE OTHERS SET TO 0.
SYSTEM XPL/S REQUESTS EITHER SYSTEM RBM OR SYSTEM BPM, DEPENDING UPON THE ENVIRONMENT.
- 890962 SIGMA 5-9 ROMLIB
AUTHOR:D. TERRY, UNIVERSITY OF WASHINGTON
ABSTRACT:
ROMLIB ALLOWS ANY SEQUENTIAL DISK FILE OF OBJECT MODULES TO BE USED AS A LIBRARY, AND PROVIDES A
COMPLETE SEARCH AND UPDATE CAPABILITY. IT WILL CREATE AND MAINTAIN ANY SEQUENTIAL FILE AS A LIBRARY OF
OBJECT MODULES, AND ALSO SEARCH AND EXTRACT FROM SUCH FILES THE MODULES REQUIRED TO SATISFY THE
REFERENCES ON THE GO FILE, THUS PROVIDING AN AUXILIARY LIBRARY FACILITY. ANY SEQUENTIAL DISK FILE OF
ROMS (CREATED BY ANY PROCESSOR) MAY BE USED AS A LIBRARY. GROUPS OF FILES MAY BE SEARCHED AS A UNIT
WITH ALL REFS (BOTH FORWARD AND BACKWARD) BEING SATISFIED; THE ROMS NEED NOT BE IN ANY PARTICULAR ORDER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
IS WRITTEN IN AP AND XPL/S.
THE PROGRAM IS WRITTEN IN XPL/S (CN890923) AND USES A SMALL AP PROGRAM FOR INTERFACE TO THE OPERATING
SYSTEM. THE EFFORT TO CONVERT TO OTHER OPERATING SYSTEMS SHOULD BE MINIMAL. SYSTEM XPLS (CN890959) AND
THEREFORE SYSTEM RBM (CN890958) ARE REQUIRED FOR THE ASSEMBLY. TABLE SIZES ARE COMPILE-TIME PARAMETERS
AND MAY BE ADJUSTED IF NECESSARY.
- 890966 SIGMA 5-9/550/560 GRADPACK
AUTHOR:R. MCCOLLOCH, UNIVERSITY OF WYOMING
ABSTRACT:
THE SIZE, STORAGE SPACE, AND CORE OVERHEAD REQUIREMENTS OF BASIC PROGRAMS CAN BE REDUCED ABOUT 15 TO 50
PERCENT BY USING THE MULTIPLE STATEMENT PER SOURCE LINE FORMAT (XEROX BASIC MANUAL 901548F, PAGE 19).
THE PROGRAM GRADPACK WILL REWRITE EXISTING BASIC PROGRAMS INTO THIS REDUCED SPACE FORMAT. THIS WILL
HEREAFTER BE REFERRED TO AS PACKING. GRADPACK WILL PACK BASIC PROGRAMS, INCLUDING ITSELF, UNPACK PACKED
BASIC PROGRAMS, AND UNPACK AND REPACK BASIC PROGRAMS. THE LATTER IS USEFUL FOR ACHIEVING OPTIMAL
PACKING OF PARTIALLY PACKED BASIC PROGRAMS. GRADPACK ASSUMES PROGRAMS ARE ON DISK STORAGE AND DISK
STORAGE IS AVAILABLE FOR REFILING THE PACKED OR UNPACKED PROGRAM VERSIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN BASIC.

- 890987 SIGMA 5-9 BLOCKED AND OVERLAPPED I/O PACKAGE
AUTHOR: S. WHITE, GODDARD COMPUTER SCIENCE INSTITUTE
ABSTRACT:
BOIOP IS A ROUTINE THAT PROVIDES FOR AUTOMATIC DOUBLE BUFFERING OF I/O. THE ROUTINE ALSO PROVIDES FOR
BLOCKING AND DEBLOCKING OF FIXED LENGTH RECORDS. THE ROUTINES CAN BE CALLED FROM METASYMBOL OR FORTRAN.
ASSEMBLY PARAMETERS CAN BE SET TO MAKE THE ROUTINE RETURN EITHER THE STANDARD SYSTEM I/O COMPLETION
CODES OR CODES COMPATIBLE WITH BUFFERIN/BUFFEROUT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER BPM/BTM, CP-V, AND UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE
LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 891000 SIGMA 5-9 APT3 (LEVEL 3) LATHE POSTPROCESSOR
AUTHOR: R. REEVES, XEROX CORPORATION
ABSTRACT:
LATHE IS A GENERAL PURPOSE APT3 (LEVEL 3)/APT4 NUMERICAL CONTROL POSTPROCESSOR PROGRAM DESIGNED TO
GENERATE CONTROL MEDIA FOR A VARIETY OF LATHE MACHINE TOOLS AND FOR A VARIETY OF NUMERICAL MACHINE TOOL
CONTROLLERS. THE MACHINE TOOLS MAY HAVE A SINGLE SIDE TURRET, A SINGLE END TURRET, OR BOTH. THE LATHE
PROGRAM IS A TWO-PASS PROCESSOR CONSISTING OF A ROOT-TYPE OVERLAY THAT DISPATCHES CONTROL TO OTHER
OVERLAYS AS THEY ARE REQUIRED TO PROCESS THE INPUT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS SUB-PROGRAM. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN FORTRAN.
LATHE AT PRESENT OPERATES UNDER THE APT3 (LEVEL 3) NUMERICAL CONTROL COMPILER. SOME CHANGES ARE
REQUIRED TO IMPLEMENT LATHE UNDER THE APT4 COMPILER. IN GENERAL, THOSE CHANGES ARE COVERED WITHIN THE
ATTACHED DOCUMENTATION.

- 704013 SIGMA 5-9 DATA-SET CONTROLLER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 5/7 DCP. APPLICABLE MODEL NUMBERS: 7601, 7602, 7603. DIRECTIVES ARE IMPLEMENTED WHICH: (1) PERMIT EXECUTION OF I/O INSTRUCTIONS AND DISPLAY OF RETURNED STATUS WITH TRANSFERENCE CAPABILITY; (2) GENERATE 4 FIXED AND 3 USER DETERMINED PATTERNS; (3) DISPLAY READ AND WRITE BUFFER AREAS; (4) PERMIT DELAY AND VERIFICATION OF END OF TEXT AND SYNCHRONIZATION CHARACTERS AND THE TELEPHONE NUMBER FOR A DIAL ORDER; (5) COMPARE READ WITH WRITTEN DATA; AND (6) MARK THE LOCATION IN A CONTROL LINE WITH 1-4 CHARACTER WORDS. SIO DIRECTIVE IS INTERPRETED FOR NORMAL DSC APPLICATIONS, BUT MAY BE OVERRIDDEN WITH APPROPRIATE DIRECTIVES IN A CONTROL LINE. ALL OPERATING CONDITIONS MAY BE SIMULATED, INCLUDING CAPABILITY TO ECHO AN EXTERNAL MESSAGE ON HALF-DUPLEX (ONLY) BASIS.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5/7 WITH 8K OF MEMORY, CONSOLE TYPEWRITER, PAPER TAPE OR CARD READER FOR LOADING PROGRAM, AND COUNTER 4 REAL TIME CLOCK (2 MILLISECOND). FOR TURN-AROUND TESTING AN XDS MODEL JT20 COMMUNICATIONS DIAGNOSTIC UNIT (OR EQUIVALENT) AND ONE DATA SET CONTROLLER WITH MODEL 7602 FULL DUPLEX OPTION, OR TWO STANDARD (HALF-DUPLEX) DSC'S, ARE REQUIRED.
- 704016 SIGMA 5-9 CHARACTER ORIENTED COMMUNICATION TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE USER WITH A PROGRAM FOR TESTING CHARACTER ORIENTED COMMUNICATION EQUIPMENT. THE PROGRAM WILL HANDLE ONE COMMUNICATION CONTROLLER AND UP TO 64 CHANNELS UNDER INTERRUPT CONTROL FOR TURNING THE CORNER AT THE CONTROLLER END. CAPABILITY FOR DRIVING DEVICES THROUGH THIS PROGRAM WILL BE PROVIDED ALSO. THE PROGRAM WILL OPERATE IN CONJUNCTION WITH THE (DCP) DIAGNOSTIC CONTROL PROGRAM FOR ERROR DISPLAY AND INPUT PARAMETERS VIA TYPEWRITER KEYBOARD.
COMMENTS:
CONFIGURATION REQUIRED: SIGMA 5/7, 8K MEMORY, KSR. IOP INPUT: PAPER TAPE OR CARDS. OUTPUT: KEYBOARD OR LINE PRINTER CHARACTER ORIENTED COMMUNICATION EQUIPMENT TEST FIXTURES OR DEVICES.
- 704050 SIGMA 5-9 GRAPH PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST PROGRAM TO TEST OPERATIONAL CAPABILITY OF CALCOMP PLOTTER.
- 704069 SIGMA 5-9 PAPER TAPE READER/PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
DIAGNOSTIC PROGRAM FOR PAPER TAPE READER/PUNCH DEVICES 8 LEVEL MODELS 7020 AND 7060. PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER THE EXECUTIVE CONTROL OF DIAGNOSTIC CONTROL PROGRAM (DCP) NO. 704070. SELF LOADING PAPER TAPE/CARDS CONTAIN RELOCATABLE DIAGNOSTIC PROGRAM LOADER NO 704356.
COMMENTS:
REQUIRED HARDWARE CONFIGURATION: SIGMA 5 OR SIGMA 7 WITH 4K MEMORY (MINIMUM) KEYBOARD/PRINTER DEVICE, MODEL 7010 (KSR) PLUS PAPER TAPE READER/PUNCH, MODEL 7060 OR KEYBOARD/PRINTER-PAPER TAPE DEVICE, MODEL 7020 (ASR)
- 704074 SIGMA 5-9 AUTO DIAL DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS ASSEMBLED WITH AND OPERATES UNDER CONTROL OF THE SIGMA 5/7 DCP AND PROVIDES A MEANS OF TESTING AND EXERCISING XDS MODEL 7618 AUTOMATIC DIALING EQUIPMENT AND OPTIONAL MODEL 7619 ADDITIONAL DIALING POSITION(S). DIRECTIVES ARE IMPLEMENTED WHICH PERMIT: (1) DEFINING THE TESTING ENVIRONMENT; (2) EXECUTING I/O INSTRUCTIONS WITH TRANSFERENCE CAPABILITY AND DISPLAYING RETURNED STATUS; (3) EXECUTING THE VARIOUS FUNCTIONS RELATED TO THE CHARACTER ORIENTED COMMUNICATIONS EQUIPMENT; AND (4) DIALING AND REPORTING THE TIMES OF STATUS CHANGES OF THE AUTOMATIC DIALING EQUIPMENT AND OPTIONALLY ASSOCIATED DIALED LINES.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5/7 WITH 4K OF MEMORY; KEYBOARD PRINTER; PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM; AND COUNTER 4 REAL TIME CLOCK (2 MSEC). ALSO, ONE OR MORE OF THE FOLLOWING IS REQUIRED: JT20 COMMUNICATIONS DIAGNOSTIC UNIT; JT14 PERIPHERAL EQUIPMENT TESTER (PET); OR BELL SERIES 801 AUTOMATIC CALLING UNIT, OR EQUIVALENT, CONNECTED TO THE AUTOMATIC DIALING EQUIPMENT.
- 704211 SIGMA 5/7 7930/7931/7935 SIU DIAGNOSTIC PROGRAM
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC CHECKS THE OPERATION OF THE 7930/7931/7935 SYSTEM INTERFACE UNITS AND THEIR ASSOCIATED INPUT/OUTPUT MODULES. THE 7928 AND 7929 SYSTEM INTERFACE UNITS MAY ALSO BE EXERCISED BY THIS DIAGNOSTIC. THIS DIAGNOSTIC, AS SUPPLIED IN ABSOLUTE FORM, INCLUDES THE DIAGNOSTIC PROGRAM MONITOR HARDWARE CONFIGURATION, 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID (DPM) AND DIAGNOSTIC PROGRAM LOADER (DPL).
COMMENTS:
HARDWARE CONFIGURATION, 8K OF CORE, KEYBOARD/PRINTER, A PAPER TAPE READER OR CARD READER, AND VALID COMBINATION OF 7928'S, 7929'S, 7930'S, 7931'S, AND 7935'S. THE APPROPRIATE ASSOCIATED I/O MODULES AND 2146 TEST CABLES (FOR CLOSED LOOP TESTS). A LINE PRINTER IS OPTIONAL.

- 704214 SIGMA 5/7 7922 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7922 SYSTEM INTERFACE UNIT AND ITS ASSOCIATED I/O MODULES AND EQUIPMENT. THESE INCLUDE 7950 AND 7954 STORED OUTPUT MODULES, 7952 AND 7953 PULSED OUTPUT MODULES, AD30-12 AND AD35SH AN ALOG-TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA36-15 XDS D/A CHANNEL CONTROLLERS AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS.
COMMENTS:
REQUIRES 8K, TYPEWRITER, CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS SELF-LOADING THE 7922 MAY BE CONNECTED TO THE DIO OR TO A 7929 IOP-DIO ADAPTER.
- 704238 SIGMA 5/7 7910/14/15 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE 7910/7914 SYSTEM INTERFACE UNITS AND ITS ASSOCIATED I/O MODULES AND EQUIPMENT. THESE INCLUDE AD30-12 AND AD35SH ANALOG -TO-DIGITAL CONVERTER, DA35-9, DA35-15 AND DA36-15 XDS D/A CHANNEL CONTROLLERS, AND THE MU55 MULTIPLEXER AND RELATED EXTENSIONS.
COMMENTS:
REQUIRES 8K, TYPEWRITER, CARD READER AND THE EQUIPMENT LISTED ABOVE. THE PROGRAM IS LOADED WITH THE XDS SIGMA STAND-ALONE LOADER FOR SYSTEM SIGMA 5/7
- 704314 SIGMA 5-9 PERIPHERAL SWITCHING EQUIP. DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE PERIPHERAL SWITCHING EQUIPMENT (PSE), MODEL 7710, 7720, 7722 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES FOR PORT SELECTION, PORT STATUS SENSING AND HIGH SPEED EXERCISING OF PORT SWITCHING LOGIC. IT ALSO PROVIDES AUTOMATIC DIRECTIVES FOR THE VERIFICATION AND TEST OF PORT SWITCHING LOGIC, THE WRITE DIRECT DATA/ADDRESS LINES AND THE 8 BIT DATA PATH INTERFACE LINES. INCORPORATED INTO THESE AUTOMATIC DIRECTIVES ARE ERROR REPORTING, LOOP ON ERROR AND PLACE MARK BRANCHING ON ERROR.
COMMENTS:
REQUIRED CONFIGURATION. A SIGMA 5 OR 7 COMPUTER WITH 4K OF MEMORY, A KEYBOARD/PRINTER, A XDS JX50 TESTER AND A CARD OR PAPER TAPE READER. A MODEL 7710 DIO BUS SHARING ADAPTER OR A MODEL 7720 MULTI-CONTROLLER PERIPHERAL SWITCH OR A MODEL 7722 4-BYTE EXTENDER IS REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL.
- 704983 SIGMA 5-9 REMOTE BATCH TERMINAL TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
EXERCISES THE MODEL 7670 REMOTE BATCH TERMINAL CONNECTED THROUGH A COMMUNICATIONS LINK AND A MODEL 7601 DATA SET CONTROLLER TO A SIGMA 5/7 COMPUTER. OPERATES UNDER CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM. DIRECTIVES ARE PROVIDED FOR: (1) TRANSMISSION OF CONTROL CHARACTERS 'ACK', 'NAK', 'DC', 'BEL', 'EOT', 'VT', AND 'FF'; (2) PRINTING A STANDARD PATTERN; (3) PUNCHING A STANDARD PATTERN; (4) ASSIGNING A SHORT OR FULL BLOCK, EBCDIC OR ASCII, PATTERN PLUS 4 MESSAGES; (5) TRANSMISSION OF UP TO FOUR MESSAGES PLUS SELECTED PATTERN; (6) RIPPLE PRINTING STANDARD OR SELECTED PATTERN; (7) RIPPLE PUNCHING STANDARD OR SELECTED PATTERN; (8) READING TEST (STD) DECK AND COMPARING AGAINST STANDARD PATTERN; (9) READING IN AND PRINTING AND/OR PUNCHING OUT SHORT AND FULL BLOCK LENGTH DATA; AND (10) EXERCISE OF UNATTENDED OPERATION CAPABILITY.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 COMPUTER WITH 8K MEMORY; KEYBOARD PRINTER; INPUT DEVICE FOR PROGRAM LOADING; XDS MODEL 7601 DATA SET CONTROLLER WITH SYNCHRONOUS FORMAT; BELL 201 SERIES SYNCHRONOUS DATA SETS OR EQUIVALENT; XDS MODEL 7670 REMOTE BATCH TERMINAL. OPTIONAL EQUIPMENT: LINE PRINTER FOR ERROR REPORTING; CARD READER FOR DIRECTIVE INPUT; MODEL 7602 FULL DUPLEX OPTION; MODEL 7603 AUTOMATIC DIALING OPTION; MODEL 7671 UNATTENDED ANSWER OPTION; MODEL 7602 TRANSMIT/RECEIVE MONITOR OPTION; MODEL 7673 OFF-LINE LISTING OPTION; MODEL 7674 TELEPHONE ALERT OPTION.
- 705279 SIGMA 5-9 CHANNEL INTERFACE UNIT TEST DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE CHANNEL INTERFACE UNIT (CIU), MODEL 7650 IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). THE CIU DIAGNOSTIC PROGRAM ALLOWS THE USER TO: ISSUE INDIVIDUAL I/O INSTRUCTIONS, TRANSFER A SPECIFIC NUMBER OF DATA BYTES, DISPLAY A RECEIVED BYTE PATTERN, TEST AUTOMATICALLY A CIU OR PWR OF CIU'S ON A SINGLE SIGMA SYSTEM AND TEST AUTOMATICALLY THE TRANSFER OF STATUS AND DATA BETWEEN CIU CONNECTED SIGMA SYSTEMS. INDIVIDUAL I/O ISSUING DIRECTIVES WILL, UPON COMPLETION, REPORT DEVICE STATUS AND THEN TAKE A PLACEMARK BRANCH IF ANY BIT COMPARES WITH A BIT IN A COMPARE STATUS BYTE PARAMETER. AUTOMATIC DIRECTIVES WILL HALT EXECUTION, UPON DETECTION OF AN ERROR, THE ERROR WILL BE REPORTED AND A PLACEMARK BRANCH WILL BE TAKEN.
COMMENTS:
CONFIGURATION: AT LEAST ONE SIGMA COMPUTER WITH 4K OF MEMORY AND A COUNTER 4 REAL TIME CLOCK (2 HILLISECONDS), A CARD READER OR 8 LEVEL PAPER TAPE READER, A KEYBOARD/PRINTER AND ONE OR MORE MODEL 7650 CHANNEL INTERFACE UNITS ARE REQUIRED. A LINE PRINTER FOR ERROR REPORTING IS OPTIONAL.
- 705303 SIGMA 5/7 DIRECT TO MEMORY SYSTEM DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 5/7 DIRECT TO MEMORY SYSTEM DIAGNOSTIC PROGRAM INTERFACES WITH THE SIGMA 5/7 DCP. IT PROVIDES TESTS FOR ALL JMS MODES OF OPERATION AND PROVIDES A STATISTICAL ANALYSIS ON INPUT FROM OPEN AND CLOSED LOOP TESTS.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 WITH MINIMUM OF 8K OF CORE KEYBOARD PRINTER CARD READER OR PAPER TAPE READER. JMS10 CLOSED LOOP CABLE FOR CLOSED LOOP TESTS ON SIGMA 5, MODEL 8270 EXTERNAL INTERFACE FEATURE

- 705387 SIGMA 5/7 7580 GRAPHIC DISPLAY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION TOOL FOR THE 7580 GRAPHIC DISPLAY SUB-SYSTEM. THE PROGRAM NOW WORKS ON 7580'S WITH A TOP ASSEMBLY DRAWING NUMBER OF 162329 REVISION L AND M AS WELL AS 7580'S BELOW THAT REVISION LEVEL.
COMMENTS:
REQUIRED HARDWARE: 8K OF MEMORY, 2 EXTERNAL INTERRUPTS. KEYBOARD/PRINTER AND CARD OR PAPER TAPE READER.
- 705392 SIGMA 5/7 7923/28/29 SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 5/7 7923/29 SYSTEM INTERFACE UNITS DIAGNOSTIC PROVIDES DEMONSTRATION AND DIAGNOSTIC CAPABILITIES FOR THE S.I.U.'S AND THEIR ASSOCIATED I/O MODULES AND EQUIPMENT
- 705534 SIGMA 5-9 REMOVABLE DISC STORAGE TEST
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE REMOVABLE DISC STORAGE CONTROLLER (MODEL 7240), DUAL SPINDLE DISC DRIVE (MODEL 7242) AND DUAL CHANNEL OPTION (MODEL 7241). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS (SURFACE TEST, HEADER WRITE/READ, COMPATIBILITY TEST) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5/9 CPU WITH 12K OF MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT.
- 705542 SIGMA 5-9 9 CHANNEL MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 9 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7321/7320) AND STATION (MODEL 7322/7323). THE RANDOM EXERCISER AND SOME UTILITY TESTS ARE INCLUDED IN THE PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5/7 CPU WITH 12K OF MEMORY, PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR LINE PRINTER, 9 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.
- 705651 SIGMA 5-9 KEYBOARD PRINTER TEST (ASR/KSR)
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURE TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE KEYBOARD/PRINTER WITH PAPER TAPE READER/PUNCH (MODEL 7020-2) AND THE KEYBOARD/PRINTER (MODEL 7012-2). THE RANDOM EXERCISER AND SOME UTILITY FUNCTIONS (CHARACTER SPACING ADJUSTMENTS, PAPER TAPE PUNCH/READ/VERIFY) ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM INTERFACES WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5-9 CPU WITH 8K OF MEMORY; PROGRAM INPUT DEVICE (CARD READER, PAPER TAPE READER, MAGNETIC TAPE); OPTIONAL MESSAGE OUTPUT DEVICE (LINE PRINTER, ASR, KSR).
- 705675 SIGMA 5 ATP FOR DATA RECORDING AND TIMING SYSTEM
AUTHOR: C.H.WHITE
ABSTRACT:
THIS PROGRAM VERIFIES CORRECT OPERATION OF THE DATA RECORDING AND TIMING SYSTEM WHICH WAS DEVELOPED FOR RIVERSIDE RESEARCH INSTITUTE. THE PROGRAM OPERATES UNDER CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM (XDS MANUAL NO. 900712). MINIMUM REQUIRED SYSTEM CONFIGURATION IS A SIGMA 5, 16K MEMORY, TELETYPE CONSOLE, CARD READER, LINE PRINTER, AND A DMS-20 WITH 4 CHANNELS.
- 705682 SIGMA 5-9 DIAGNOSTIC PROGRAM MONITOR (DPH)
AUTHOR: XEROX
ABSTRACT:
A MONITOR PROGRAM WHICH WILL INTERFACE AND CONTROL ALL SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES A MONITOR PROGRAM WHICH WILL INTERFACE AND CONTROL CERTAIN SIGMA DIAGNOSTIC PROGRAMS. THE PROGRAM PROVIDES BASIC UTILITY FEATURES THROUGH THE USE OF DIRECTIVES. THE DPH IS USED IN CONJUNCTION WITH A BIAS CARD AND WITH THE SIGMA 5-9 DIAGNOSTIC LOADER-704356. ALL THREE ITEMS (LOADER/BIAS/DPH) ARE INCLUDED AS A LOAD PACKAGE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
REQUIRES A MINIMUM 18K OF MEMORY, A KSR AND AN INPUT SOURCE SUCH AS CARD READER OR PAPER TAPE READER.
- 705691 SIGMA 5-9 MAG. TAPE LIBRARY CONTROL PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LOAD DIAGNOSTIC PROGRAMS FROM A 9-TRACK MAG. TAPE BY TYPING THE ASSIGNED PROGRAM NAMES. IT CAN ADD, DELETE OR REPLACE PROGRAMS FROM THE TAPE. IT WILL ALSO FUNCTION ON A 7-TRACK MAG.

705691 CONTINUED ON FOLLOWING PAGE

- 705691 MAG. TAPE LIBRARY CONTROL PROGRAM (CONTINUED)
TAPE WITH A PACKING OPTION.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 5 OR 7 WITH AT LEAST 16K OF MEMORY, A KSR/ASR, AT LEAST ONE MAG TAPE UNIT TO LOAD PROGRAMS AND AT LEAST TWO MAG. TAPE UNITS TO UPDATE THE MAG. TAPE LIBRARY, AND A CARD READER. A LINE PRINTER IS OPTIONAL.
- 705692 SIGMA 5/7 DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE BINARY LIBRARY (-86) CONTAINS PROCESSOR, MEMORY, PERIPHERAL AND SPECIAL TEST PROGRAMS WHICH SHOULD BE USED IN DIAGNOSING AND TROUBLESHOOTING HARDWARE PROBLEMS OCCURRING ON A SIGMA 5/7 SYSTEM. A COMPRESSED LIBRARY TAPE (-46) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE PROGRAM DESCRIPTION FOR LOADING AND USE INSTRUCTIONS.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5 OR 7 COMPUTER, 1 9-CHANNEL MAGNETIC TAPE UNIT, 1 KEYBOARD PRINTER
- 705730 SIGMA 5-9 COMPREHENSIVE RAD TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE FUNCTION IN THE FOLLOWING RAD CONTROLLER AND STORAGE UNITS; CONTR:7201 -STORAGE UNIT; 7202, 7203, 7204. CONTR:7211 - STORAGE UNIT:7212. CONTR:7231 -STORAGE UNIT:7232.
A RANDOM EXERCISOR IS INCLUDED AS PART OF THE TEST PROGRAM. IT IS USEFUL IN DETECTION OF INTERMITTENT FAILURES. A UTILITY TEST (SURFACE) IS PROVIDED FOR TESTING AND SCOPING FUNCTIONS. THIS TEST PROGRAM IS INTERFACED WITH AND OPERATES UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPH) PROGRAM.
COMMENTS:
SIGMA 5/7 CPU WITH 16K OF MEMORY. MODEL 7211/7212 REQUIRES A SIOP. PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER OR MAGNETIC TAPE. MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER. DEVICE TO BE TESTED: MODEL 7201/7202/7203/7204, 7211/7212, 7231/7232.
- 705731 SIGMA 5/7 96-CHARACTER ANALEX LINE PRINTER TEST
AUTHOR: XDS
ABSTRACT:
THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION PROGRAM FOR THE 96-CHARACTER ANALEX (PCS20) LINE PRINTER. IT IS BASED ON THE 7440/7445 LINE PRINTER TEST, CATALOG NO. 704777. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND THE DCP LOADER.
COMMENTS:
HARDWARE CONFIGURATION: 4K OF MEMORY, CARD READER, KEYBOARD / PRINTER.
- 705735 SIGMA 5/7 7 CHANNEL MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE 7 CHANNEL MAGNETIC TAPE CONTROLLER (MODEL 7381/7385/7371/7374) AND STATION (MODEL 7362/7372). THE RANDOM EXERCISER AND SOME UTILITY TEST ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5/7 CPU WITH 16K OF MEMORY, PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER, 7 CHANNEL MAGNETIC TAPE CONTROLLER AND TAPE STATION.
- 705774 SIGMA 5/7 DIAGNOSTIC FOR MDC MODIFIED 7580
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM SERVES AS A DIAGNOSTIC AND DEMONSTRATION PROGRAM FOR THE MC DONNELL-DOUGLAS MODIFIED 7580 GRAPHIC DISPLAY. IT IS BASED ON THE 7580/7581 DIAGNOSTIC, CATALOG NO. 705397. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND THE DCP LOADER.
COMMENTS:
HARDWARE CONFIGURATION: 8K OF MEMORY, 2 EXTERNAL INTERRUPTS, CARD READER, KEYBOARD/PRINTER.
- 705884 SIGMA 6/7 UTS ON-LINE MAINTENANCE PACKAGE (OLMP)
AUTHOR: XEROX
ABSTRACT:
THE ON-LINE MAINTENANCE PACKAGE IS A TOOL FOR THE COMPUTER ENGINEER WITH WHICH HE CAN EXERCISE PARTICULAR SECTIONS OF THE HARDWARE OF THE SYSTEM WHILE ALLOWING THE REST OF THE SYSTEM TO FUNCTION NORMALLY UNDER UTS. THE PROGRAM PROVIDES EXERCISERS FOR THE LINE PRINTER, CARD PUNCH, CARD READER, 7 AND 9 TRACK MAGNETIC TAPES. AN EXERCISER IS PROVIDED FOR THE FILE DEVICES (RAD AND DISK) BUT VERY LIMITED CONTROL IS AVAILABLE ON THOSE DEVICES. 3 UTILITIES ARE PROVIDED TO 1)LIST THE ERROR LOG, 2) PUNCH CARD DECKS FOR CARD READER EXERCISER, 3)VERIFY CARD DECKS PUNCHED BY CARD PUNCH EXERCISER.
COMMENTS:
THE PROGRAMS RUNS UNDER UTS AS A NORMAL ON-LINE PROGRAM WITH SPECIAL PRIVILEGES. THE PACKAGE CAN ONLY BE RUN ON A UTS SYSTEM WHEN THE SYSTEM IS UP AND RUNNING. THE BINARY OBJECT DECKS MUST BE COMBINED IN A LOAD MODULE USING THE FOLLOWING JOB COMMANDS: NOTE EACH PROGRAM IS IDENTIFIED BY ITS PROGRAM NUMBER.
!OVERLAY (EF,(706282),(706283),(706284),;
!(706285),(706286),(706287),(706288),(706289),;
!(706290),(706291),);
!(PERM),(LMN,DIAG),(MAP),(SL,F)
!TREE 706283-706282-(706284,706285,706287;
!706288,706286,706289-(706290,706291))

- 705886 SIGMA 5/7 CC-32 DIAGNOSTIC PROGRAM
AUTHOR: XDS DATA SYSTEMS DIVISION
ABSTRACT:
THIS PROGRAM TEST AND EXERCISE THE MODEL CC-32 PROCEDURE ORIENTED COMMUNICATION CONTROLLERS WHEN IT OPERATES WITH A SIGMA 5 OR 7 COMPUTER. IT IS BASED ON THE DATA SET CONTROLLER DIAGNOSTIC PROGRAM, CATALOG NO. 704013. THIS PROGRAM INCLUDES THE DIAGNOSTIC CONTROL PROGRAM AND RELOCATABLE DIAGNOSTIC PROGRAM LOADER.
COMMENTS:
HARDWARE CONFIGURATION: SIGMA 5/7 COMPUTER, 8K OF CORE MEMORY, KEYBOARD PRINTER, EITHER CARD READER OR PAPER TAPE READER AS PROGRAM INPUT DEVICE, COUNTER 4 REAL-TIME CLOCK, AND ONE OR MORE MODEL CC-32 PROCEDURE ORIENTED COMMUNICATION CONTROLLERS.
- 705887 SIGMA 5/7 ADS-10 ANALOG SIU DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION OF THE ADS-1 SYSTEM INTERFACE UNIT.
COMMENTS:
REQUIRED HARDWARE: 8K OF CORE, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER, ADS-10 ANALOG INPUT CONTROLLER, MD41 MULTIPLEXER-DIGITIZER OR CD51 CONTROLLER-DIGITIZER AND 1-8 DM40 DIFFERENTIAL MULTIPLEXERS. OPTIONAL HARDWARE: 7969 FREQUENCY CONTROL SUBSYSTEM. TEST EQUIPMENT: A PRECISION VOLTAGE SOURCE
- 705889 SIGMA 5/7 NEW SYSTEM EXERCISER (SEX)
AUTHOR: XEROX
ABSTRACT:
THE SYSTEMS EXERCISER IS A STAND-ALONE PROGRAM WHICH CAN SIMULTANEOUSLY OPERATE ALL STANDARD DEVICES ON ANY XDS SIGMA 5 OR 7. THE PROGRAM PROVIDES ONLY MONO-PROCESSOR CONTROL AND DOES NOT HAVE PERIPHERAL SWITCH CONTROLS.
COMMENTS:
REQUIRED CONFIGURATION: A SIGMA 5 OR 7 COMPUTER WITH 16K MEMORY, A KEYBOARD/PRINTER, ANY XDS STANDARD RAD AND ANY XDS STANDARD CARD READER.
- 706131 SIGMA 8/9 GUIDE DIAGNOSTIC MONITOR
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 8/9 GENERAL USERS INTERFACE-DESIGNER-EXPANDABLE (GUIDE) DIAGNOSTIC MONITOR PROVIDES AN INTERFACE BETWEEN A SIGMA 8/9 CPU DIAGNOSTIC PROGRAM AND THE USER VIA A KEYBOARD PRINTER. STANDARD DIRECTIVES ARE PROVIDED FOR DISPLAYING MEMORY, ALTERING MEMORY AND SETTING SOFTWARE SENSE SWITCHES. A SELECTION OF UTILITY SUB-ROUTINES ARE ALSO PROVIDED.
COMMENTS:
LINKAGES ARE PROVIDED BETWEEN GUIDE AND THE USER PROGRAM VIA TABLES SHARED BY BOTH PROGRAMS. THE PROGRAM RESERVES THE MEMORY BETWEEN LOCATION 40 AND LOCATION FFF (HEXADECIMAL). THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH AT LEAST 16K OF MEMORY, A KEYBOARD PRINTER AND EITHER A CARD READER OR MAGNETIC TAPE UNIT FOR INPUT. A LINE PRINTER IS AN OPTIONAL ITEM FOR OUTPUT.
- 706133 SIGMA 8/9 CPU DIAGNOSTIC (AUTO)
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 8/9 CPU DIAGNOSTIC, AUTO, IS A MODULE DRIVER, GUIDE (706131) INTERFACED PROGRAM. THE DRIVER SECTION USES ONLY THE HARD-CORE INSTRUCTIONS THAT ARE VALIDATED BY THE PREP (706132) PROGRAM, TO FETCH AND EXECUTE (IN FOUR DIFFERENT MODES) THE SLIGHTLY MORE COMPLEX INSTRUCTIONS THAT ARE THE NUCLEUS OF EACH MODULE. EACH MODULE CONTAINS THE INITIALIZING DATA, THE EXPECTED RESULT DATA AND THE TEST INSTRUCTION. INSTRUCTIONS NOT TESTED BY AUTO ARE: FLOATING POINT, DECIMAL, BYTE STRING, CVA, CVS, MMC, I/O, WAIT AND PUSH DOWN.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY. MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.
- 706134 SIGMA 8/9 CPU DIAGNOSTIC (SUFFIX)
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 8/9 CPU DIAGNOSTIC, SUFFIX, IS A MODULE-DRIVER, GUIDE (706131) INTERFACED PROGRAM. THE MODULE CONTAINS CONTROL WORDS THAT CONVEY INITIALIZATION CONTROL INFORMATION TO THE DRIVER. THE DRIVER INITIALIZES THE APPROPRIATE CONTROL TABLES, EXECUTES THE TEST INSTRUCTION, VALIDATES THE TEST RESULTS AND ADVANCES TO THE NEXT MODULE. ERRORS ARE REPORTED TO A MESSAGE DEVICE AS THEY ARE DETECTED. THE DRIVER ONLY USES INSTRUCTIONS TESTED BY PREP (706132) AND AUTO (706133). INSTRUCTIONS TESTED BY THIS PROGRAM ARE LM, STM, MBS, CBS, TBS, TTBS, PSW, PLW, PSM, PLM, MSP, MMC, LRA, CVA AND CVS.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY. MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

708135 SIGMA 8/9 CPU DIAGNOSTIC (FLOAT)

AUTHOR:XEROX

ABSTRACT:

THE SIGMA 8/9 CPU DIAGNOSTIC, FLOAT, IS A MODULE-DRIVER, GUIDE (708131) INTERFACED PROGRAM. IT EXECUTES ALL FLOATING POINT INSTRUCTIONS. IT ASSUMES PREP (708132) AND AUTO (708133) DO NOT EXHIBIT ANY FAILURES IT EXECUTES THE TEST INSTRUCTION ONLY IN A CONTROLLED ENVIRONMENT. THE DRIVER STRUCTURE, MODULE STRUCTURE AND SNAPSHOT FORMAT ARE IDENTICAL TO AUTO.

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY. MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

708138 SIGMA 8/9 CPU DIAGNOSTIC (DECIMAL)

AUTHOR:XEROX

ABSTRACT:

THE SIGMA 9 CPU DIAGNOSTIC, DECIMAL, IS A MODULE-DRIVER, GUIDE (708131) INTERFACED PROGRAM. IT EXECUTES ALL DECIMAL INSTRUCTIONS AND EBS. IT ASSUMES PREP (708132) AND AUTO (708133) DO NOT EXHIBIT ANY FAILURE IT EXECUTES THE TEST INSTRUCTIONS ONLY IN A CONTROLLED ENVIRONMENT. IT VERIFIES CLEAN TRAPABILITY AND MEMORY PROTECT FEATURES OF THE DECIMAL UNIT. THE MODULE STRUCTURE AND DRIVER STRUCTURE ARE SIMILAR TO AUTO (708133). THE SNAPSHOT FORMAT IS DIFFERENT BECAUSE OF THE ADDITIONAL DECIMAL SNAP.

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER. SNAPSHOT IS AN INTEGRAL PART OF THE PROGRAM AND IS CONTROLLED BY PARAMETERS. REFERENCE DATA FOR SNAPSHOT COMPARISON IS ONLY AVAILABLE ON THE DIAGNOSTIC MAGNETIC TAPE LIBRARY. MACHINES WITH LESS THAN 32K OF MEMORY CANNOT DO A FULL SNAP OF LONG INSTRUCTIONS IN ONE PASS.

708137 SIGMA 8/9 INTERRUPT/TRAP DIAGNOSTIC

AUTHOR:XEROX

ABSTRACT:

THE SIGMA 8/9 INTERRUPT/TRAP DIAGNOSTIC PROVIDES AN ANALYSIS OF INTERRUPT LEVEL CONFIGURATIONS, A MEASUREMENT OF REAL-TIME CLOCK FREQUENCIES AND IT PROVIDES TESTING AND ERROR DETECTION OF INTERRUPT AND TRAP LOGIC. THE PROGRAM OPERATES IN CONJUNCTION WITH THE GUIDE (708131) PROGRAM.

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH 16K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR 9T MAGNETIC TAPE UNIT FOR INPUT. A LINE PRINTER IS OPTIONAL FOR OUTPUT.

708139 SIGMA 8/9 MAP AND WRITE LOCK-DIAGNOSTIC PROGRAM

AUTHOR:XEROX

ABSTRACT:

THE PURPOSE OF THE PROGRAM IS TO TEST THE SIGMA 9 MEMORY MAP AND THE SIGMA 8/9 WRITE LOCK FEATURES. IT ALSO TESTS THE LOAD REAL ADDRESS (LRA) INSTRUCTION WHICH IS USED EXTENSIVELY IN THE TESTING OF MAP ACCESS CONTROL AND WRITE LOCK REGISTERS. THE MOVE TO MEMORY CONTROL (MMC) IS ALSO TESTED. THE PROGRAM IS A GUIDE (708131) INTERFACED PROGRAM AND ASSUMES THAT THE PROGRAM CAN SUCCESSFULLY EXECUTE AUTO (708131) AND THE INTERRUPT/TRAP PROGRAM (708137).

COMMENTS:

THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM 16K OF MEMORY, A KSR/ASR, CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER.

708139 SIGMA 8/9 IOP TEST

AUTHOR:XEROX

ABSTRACT:

THE DIAGNOSTIC IS A COMPREHENSIVE TEST OF THE SIGMA 8/9 IOP. PROGRAM COVERAGE INCLUDES THE CCU, CHANNELS A AND B, AND THE MAINTENANCE SUBCONTROLLERS. THE OPTIONAL IOP FEATURES ARE ALSO TESTED. THIS PROGRAM INTERFACES WITH THE GUIDE PROGRAM (708131). THE PROGRAM TESTS THE IOP IN SEVERAL DIFFERENT MODES, INCLUDING FUNCTIONAL, SINGLE PHASE AND COMPARE.

COMMENTS:

THE PROGRAM INITIALLY SCANS THE IOP FOR FUNCTIONALLY DETECTABLE FAULTS AND REPORTS A GOOD OR BAD IOP STATE. THE PROGRAM HAS AN INITIAL WAIT TO ALLOW FOR BASIC IOP CONFIGURATION DATA. THIS PROGRAM REQUIRES 16K OF MEMORY. IF COMPARISON MODE IS INVOKED, THE PROGRAM MUST BE LOADED FROM THE SIGMA 8/9 DIAGNOSTIC MAGNETIC TAPE LIBRARY. THE REASON FOR THIS REQUIREMENT IS TO PROVIDE COMPARE DATA FOR SINGLE PHASE MODE.

708140 SIGMA 8/9 MEMORY DIAGNOSTIC - COMET

AUTHOR:XEROX

ABSTRACT:

THE SIGMA 8/9 MEMORY DIAGNOSTIC, COMET, IS A GUIDE (708131) INTERFACED PROGRAM. THE PROGRAM WILL TEST THE MATRIX-SWITCHES, DRIVER AND THE BHU. PORT CONFLICTS BETWEEN THE CPU PORT AND PORTS TO WHICH IOPS ARE CONNECTED ARE ALSO DETECTED. THE PROGRAM WILL TEST FOR MAGNETIC DEFECTS IN THE CORES. THE PROGRAM CAN TEST THE MEMORY SYSTEM IN ALL OR ANY COMBINATIONS OF THE MEMORY CLOCK MARGINS.

COMMENTS:

THE PROGRAM REQUIRES 16K OF PROGRAM RESIDENT AREA TO APPLY ALL TEST ROUTINES TO THE REST OF MEMORY. IF THE PROGRAM IS LOADED INTO A 16K MEMORY SYSTEM THE PROGRAM WILL DELETE THOSE TESTS WHICH RESIDE ABOVE 8K. THE PROGRAM MUST BE LOADED INTO THE FIRST 128K OF MEMORY ALTHOUGH IT IS CAPABLE OF TESTING MEMORY BEYOND 128K. THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER WITH A MINIMUM OF 16K OF MEMORY, A KSR/ASR, A CARD READER OR 9T MAGNETIC TAPE UNIT AND, OPTIONALLY, A LINE PRINTER.

- 708142 SIGMA 8/9 POWER FAIL SAFE DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE POWER FAIL SAFE DIAGNOSTIC PROGRAM TESTS THE OPERATION OF THE POWER MONITORS. INCLUDED ARE TESTS FOR PROPER POWER INTERRUPT SEQUENCE AND POWER MONITOR IOFF PULSE WIDTH ADJUSTMENTS.
COMMENTS:
PRIOR TO LOADING THIS PROGRAM, THE 'GUIDE' DIAGNOSTIC MONITOR PROGRAM MUST BE LOADED INTO CORE. THE PROGRAM REQUIRES A SIGMA 8 OR 9 WITH 16K MEMORY, A KEYBOARD/PRINTER FOR USER INTERFACE, AND A 9T MAG TAPE OR A CARD READER FOR PROGRAM LOADING. A LINE PRINTER IS OPTIONAL FOR MESSAGE OUTPUTS.
- 708144 SIGMA 8/9 DIAGNOSTIC PROGRAM MAG TAPE LIBRARY
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE BINARY LIBRARY (-86) CONTAINS PROCESSOR, MEMORY, PERIPHERAL AND SPECIAL TEST PROGRAMS WHICH SHOULD BE USED IN DIAGNOSING AND TROUBLESHOOTING HARDWARE PROBLEMS OCCURRING ON A SIGMA 8/9 SYSTEM. A COMPRESSED LIBRARY TAPE (-46) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT. REFER TO THE PROGRAM DESCRIPTION FOR LOADING AND USE INSTRUCTIONS.
COMMENTS:
REQUIRED CONFIGURATION: SIG 8/9 WITH A MINIMUM OF 32K OF MEMORY, A MINIMUM OF 1 TAPE DRIVE FOR LOADING OR 2 TAPE DRIVES AND 1 CARD READER FOR UPDATING, ONE ASR/KSR.
- 708145 SIGMA 5-9 7915/ADS 10 DIAGNOSTIC
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF CHECKING THE 7915/ADS 10 SYSTEM INTERFACE UNITS AND ASSOCIATED IO MODULES.
COMMENTS:
REQUIRES 8K, TYPEWRITER, AND CARD READER. A LINE PRINTER IS OPTIONAL. THE ABSOLUTE BINARY DECK INCLUDES THE LOADER.
- 708146 SIGMA 5/6/7 SUPER SWAP (102)
AUTHOR: XDS, FIELD ENGINEERING
ABSTRACT:
THIS PROGRAM RUNS ON SIGMA 5/6/7 AS A STAND-ALONE VERSION, USED STRICTLY FOR SYSTEM FAULT DIAGNOSIS.
COMMENTS:
ALL QUESTIONS SHOULD BE DIRECTED TO REMOTE TROUBLE SHOOTING GROUP, FIELD ENGINEERING.
- 708167 SIGMA 5-9 COMPREHENSIVE LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (MODEL 7440/7445, 7441, 7446 OR 7450). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5-9 CPU WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; LINE PRINTER TO BE TESTED.
- 708169 SIGMA 5-9 COMPREHENSIVE CARD EQUIPMENT TEST
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN ALL STANDARD CARD PUNCH AND READER EQUIPMENT (MODELS 7160-1, 7160-2, 7165 AND MODELS 7120, 7121, 7122, 7140 RESPECTIVELY). A RANDOM EXERCISER AND SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO RESPECTIVELY DETECT INTERMITTENT CONTROLLER AND/OR MECHANISM FAILURES, AND AID THE OPERATOR IN MECHANISM ADJUSTMENTS. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR.
COMMENTS:
SIGMA 5/6/7/9 CPU WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; CARD PUNCH AND/OR READER TO BE TESTED.
- 706200 SIGMA 8/9 HIGH-SPEED RAD IOP TEST
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE HIGH-SPEED RAD IOP (MODEL 8680) AND HIGH-SPEED RAD STORAGE UNIT (MODEL 7212). A RANDOM EXERCISER AND SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO ASSIST IN THE DETECTION OF INTERMITTENT FAILURES. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR (DPM).
COMMENTS:
SIGMA 9 CPU WITH 16K OF CORE MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE READER, OR MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; HIGH-SPEED RAD IOP AND HIGH SPEED STORAGE UNIT TO BE TESTED.
- 708238 SIGMA 5-9 SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC
AUTHOR: XEROX, WESTERN TECHNOLOGY GROUP
ABSTRACT:
IMPLEMENTS ON SIGMA 5/7 THE SIGMA 2/3 SKD DIAGNOSTIC (708110) WHICH HAS THESE FUNCTIONS: 1 - IN HOUSE

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- 706236 SYSTEM KEYBOARD DISPLAY (SKD) DIAGNOSTIC (CONTINUED)
CHECKOUT OF NEW SKD UNITS, 2 - QA ACCEPTANCE OF SKD UNITS, 3 - DIAGNOSTIC FOR REMOTE & UNATTENDED SKD UNITS.
COMMENTS:
THE BINARY DECK PROVIDED CONTAINS THE DIAGNOSTIC PROGRAM MONITOR (DPH) & THE SKD DIAGNOSTIC. THE CORE REQUIREMENT IS APPROXIMATELY 9800 LOCATIONS. SOURCE LANGUAGE IS SIGMA 5/7 META-SYMBOL.
- 706249 SIGMA 5-9 ROTATING MEMORY TEST PROGRAM - RMC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS TEST PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE ROTATING MEMORY CONTROLLER OR THE XEROX DISK A OR DISK 33. A RANDOM EXERCISER AND UTILITY FUNCTIONS ARE INCLUDED TO ASSIST IN THE DETECTION OF INTERMITTENT FAILURES. THE TEST PROGRAM IS INTERFACED WITH THE DIAGNOSTIC PROGRAM MONITOR (DPH).
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
REQUIRED MINIMUM CONFIGURATION: SIGMA 5-9 WITH 18K CORE, IOP, PROGRAM INPUT DEVICE (CARD OR PAPER TAPE READER, MAG TAPE), KSR, ROTATING MEMORY CONTROLLER WITH DISK'S.
- 706264 SIGMA 8/9 CPU HARD CORE PREP (HCP)
AUTHOR: XEROX
ABSTRACT:
THE SIGMA 8/9 DIAGNOSTIC HARD CORE PREP, HCP, IS A LOAD-AND-GO PRETEST OF THE SIGMA 8/9 HARDWARE. THE LOADABLE OBJECT DECK IS PURE BINARY (SOCH). IT LOADS DIRECTLY FROM THE HARDWARE BOOT AND REQUIRES NO OTHER LOADING AID. THE PROGRAM TESTS EACH INSTRUCTION BEFORE IT USES IT AS TESTING BECOMES MORE COMPLEX. TESTING INCLUDES BASIC INSTRUCTION TESTS, INCLUDING INDEXING AND INDIRECT, MEMORY TESTS, AND I/O TESTS. THE PROGRAM CLEARS THE FIRST 18K OF CORE AND RESTORES THE HARDWARE BOOT ON THE LAST CARD PRIOR TO BRANCHING TO LOCATION X'2B'.
COMMENTS:
THE PROGRAM REQUIRES A SIGMA 8 OR 9 COMPUTER AND A CARD READER OR MAGNETIC TAPE UNIT FOR LOADING. THE PROGRAM LOADS AND RUNS IN LESS THAN 500 WORDS, BUT THE MEMORY TEST EXPECTS TO FIND 18K AND TESTS THE FULL FIRST 18K BANK. IT IS ASSUMED THAT THE HARDWARE BOOT WORKS AND THAT THE IOP AND CARD READER ARE ABLE TO LOAD CARDS. THE PROGRAM IS LOADED AND EXECUTED WHENEVER THE MAG TAPE LIBRARY IS BOOTED IN FROM LOADPOINT.
- 706267 SIGMA 8/9 REMOTE GUIDE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS AN EXTENSION OF THE SIGMA 8/9 DIAGNOSTIC MONITOR (GUIDE). IT PROVIDES THE ABILITY TO USE GUIDE CONTROLLED PROGRAMS FROM A REMOTE TERMINAL.
- 706271 SIGMA 5/6/7 PORT-TEST C01
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM IS A STAND-ALONE SYSTEM DATA PATH TEST USING CPU, MEMORY, IOP, AND MAGNETIC SURFACE I/O DEVICES.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 3000 DECIMAL LOCATIONS. ALL REMAINING MEMORY LOCATIONS ARE USED AS I/O DATA BUFFERS FOR THE DATA PATH TESTS.
- 706411 SIGMA 5-9 OPTICAL CHARACTER PRINTER TEST PROGRAM
AUTHOR: OX
ABSTRACT:
THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT AND ISOLATE SOLID LOGIC FAILURES OCCURRING IN THE OPTICAL CHARACTER PRINTER (OCP). A RANDOM EXERCISER AND SOME UTILITY FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM TO ASSIST IN THE DETECTION OF INTERMITTENT FAILURES IN THE LOGIC AND MECHANISM. THE TEST PROGRAM IS INTERFACED TO THE REMOTE DIAGNOSTIC PROGRAM MONITOR (RDPM).
COMMENTS:
REQUIRED HARDWARE: A SIGMA 5-9 CPU WITH 18K OF CORE MEMORY AND COUNTER 4 REAL TIME CLOCK; PROGRAM INPUT DEVICE; A CARD READER, A PAPER TAPE READER, A MAGNETIC TAPE UNIT; MESSAGE OUTPUT DEVICE, A KSR, A LINE PRINTER; DEVICE TO BE TESTED, AN OPTICAL CHARACTER PRINTER (OCP).
- 706424 SIGMA 5-9 REMOVABLE DISK STORAGE TEST
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS THE DIAGNOSTIC SUPPORT FOR THE MODIFIED 7240 CONTROLLER (ASSEMBLY NO. 168530), SINGLE CHANNEL ISS NO. 715X AND DUAL CHANNEL ISS NO. 715XD. THE PROGRAM IS A MODIFICATION OF PROGRAM NO. 705634 VERSION B01. THE PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR (PROGRAM NO. 705662).
COMMENTS:
SIGMA 5-9 CPU WITH 12K OF MEMORY; PROGRAM INPUT DEVICE: CARD READER, PAPER TAPE, MAGNETIC TAPE; MESSAGE OUTPUT DEVICE: KSR, LINE PRINTER; REMOVABLE DISC STORAGE CONTROLLER AND DRIVE UNIT.

- 706472 SIGMA 5-9 STAND-ALONE OCP DIAGNOSTIC CONTROL PROG.
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM PROVIDES THE SOFTWARE FACILITY TO LINK A ON-LINE OPTICAL CHARACTER PRINTER (OCP) TO A SIGMA MAGNETIC TAPE DRIVE. THIS PROVIDES THE CAPABILITY TO RUN THE DIAGNOSTIC SOFTWARE SYSTEM (DSS) FOR THE OFF-LINE XEROX 1200 PRINTER CONTROL SYSTEM THROUGH A SIGMA 5-9.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM IS INTERFACED TO THE SIGMA 5-9 DIAGNOSTIC PROGRAM MONITOR (CATALOG NO. 705682) AND REQUIRES THE FOLLOWING CONFIGURATION:
16K MEMORY, MULTIPLEXING I/O PROCESSOR (NOT A SIGMA 5 INTEGRAL IOP), AND A 9 TRACK TAPE DRIVE.
- 706473 SIGMA 5-9 NS LINE PRINTER DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM VERIFIES THE OPERATION OF THE SIGMA NS LINE PRINTER I/O SUBSYSTEM CONSISTING OF A LINE PRINTER CONTROLLER AND A LOW, MEDIUM, OR HIGH SPEED LINE PRINTER. THE FUNCTIONAL TESTS ARE DESIGNED TO DETECT FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM IS INTERFACED TO A SIGMA 5-9 DIAGNOSTIC PROGRAM MONITOR (CATALOG NO. 705682). THE MEMORY REQUIREMENT IS 16K.
- 708001 SIGMA 5-9/550/560 ON-LINE EXERCISER SYSTEM FOR CP-R
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE GOAL OF THE ON-LINE EXERCISER IS TO PROVIDE A TOOL FOR THE CUSTOMER AND CUSTOMER ENGINEER WITH WHICH HE CAN TEST PARTICULAR SECTIONS OF THE HARDWARE OF THE SYSTEM WITHOUT DEGRADING THE FOREGROUND JOBS UNDER AN CP-R ENVIRONMENT. THE ON-LINE EXERCISER PACKAGE DOES NOT DIAGNOSE. THUS, THE ADVANTAGE OF THE ON-LINE EXERCISER SYSTEM IS TO BE ABLE TO VERIFY THAT A RESOURCE ELEMENT IS IN PROPER WORKING ORDER, WITHOUT TAKING THE SYSTEM INTO AN OFF-LINE ENVIRONMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS CATALOG NUMBER ONLY REPRESENTS THE LOAD MODULE FOR THE FOLLOWING:
1. EXERCISER CONTROL PROGRAM (CATALOG NUMBER 708002).
2. CARD READER/CARD PUNCH EXERCISER (CATALOG NUMBER 708003).
3. LINE PRINTER EXERCISER (CATALOG NUMBER 708004).
4. MAGNETIC TAPE EXERCISER (CATALOG NUMBER 708005).
THE ON-LINE EXERCISER SYSTEM WILL RUN AS A CP-R USER PROGRAM USING ONLY THE FACILITIES THAT ARE AVAILABLE TO ANY USER, PLUS FOR THE CAPABILITY TO ACCESS A IDOWNI DEVICE. IT EXECUTES ITS I/O'S BY USING NORMAL USER READ'S AND WRITE'S. ALSO, ALL ERRORS WILL BE LOGGED INTO THE STANDARD CP-R ERROR LOG FILE.
- 708002 SIGMA 5-9/550/560 EXERCISER CONTROL PROGRAM FOR CP-R
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE EXERCISER CONTROL PROGRAM CONTROLS THE LOADING AND EXECUTION OF SELECTED PERIPHERAL EXERCISERS. SINCE THE EXERCISERS ARE ASSEMBLED SEPARATELY FROM THE CONTROL PROGRAM, INTER-PROGRAM COMMUNICATION IS ESTABLISHED BY WAY OF INTERFACE TABLES. IT ALSO INITIATES THE EXERCISER AND CONTROLS THE EXECUTION OF THE EXERCISER'S TEST AND TERMINATES THE EXERCISER WHEN ITS LAST TEST HAS COMPLETED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS IS ONLY THE CONTROL PROGRAM FOR THE ON-LINE EXERCISER SYSTEM. THE PERIPHERAL EXERCISERS ARE NOT INCLUDED UNDER THIS PROGRAM CATALOG NUMBER.
- 708003 SIGMA 5-9/550/560 CARD READER/CARD PUNCH EXERCISER (CP-R)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM WILL READ OR PUNCH A PREDEFINED AND PSEUDO RANDOM CARD DECKS FROM THE CARD READER OR CARD PUNCH. THIS EXERCISER HAS FIVE TESTS IN TOTAL (3 STANDARD AND 2 USER DEFINED). THE CARD READER TESTS UTILIZES THE CARD DECKS PUNCHED OUT BY THE CARD PUNCH TESTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 708002). IT WILL NOT RUN ALONE UNDER CP-R.
- 708004 SIGMA 5-9/550/560 LINE PRINTER EXERCISER FOR CP-R
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE LINE PRINTER EXERCISER WILL PRINT A VARIETY OF PATTERNS ON THE LINE PRINTER FOR CHECKING VARIOUS PRINTING MALFUNCTIONS AS WELL AS CHECKING THE VERTICAL FORMAT CONTROL. THIS EXERCISER HAS NINE TESTS IN TOTAL (8 STANDARD AND 1 USER DEFINED).
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN

708004 CONTINUED ON FOLLOWING PAGE

- 708004 LINE PRINTER EXERCISER FOR CP-R (CONTINUED)
PROGRAM IS WRITTEN IN META-SYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 708002). IT WILL NOT RUN ALONE UNDER CP-R.
- 708005 SIGMA 5-9/550/560 MAGNETIC TAPE EXERCISER FOR CP-R
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE MAGNETIC TAPE EXERCISER WILL READ AND WRITE TO EITHER 7 OR 9 TRACK MAGNETIC TAPE. IT ALSO VERIFIES WHETHER THE TAPE CAN BE MOVED OFF OF LOAD POINT AND WHETHER THE BASIC POSITIONING OF THE DRIVE CAN BE ACCOMPLISHED. THIS EXERCISER HAS SIX TEST IN TOTAL (5 STANDARD AND 1 USER DEFINED). ONE OF THE STANDARD TESTS WILL ONLY EXECUTE FOR 9 TRACK TAPES SINCE THE READ REVERSE FUNCTION IS TESTED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-R OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS EXERCISER EXECUTES UNDER THE CONTROL OF THE EXERCISER CONTROL PROGRAM (PROGRAM CATALOG NUMBER 708002). IT WILL NOT RUN ALONE UNDER CP-R.
- 708006 SIGMA 5-9/550/560 CP-V/CP-R ERROR LOG LIST/ANALYSIS (ELLA)
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE ERROR LOG LIST/ANALYSIS PROGRAM IS A TOOL FOR FIELD ENGINEERING BY WHICH THE ERRORS LOGGED BY AN OPERATING SYSTEM ARE LISTED IN A COMPREHENSIVE AND READABLE FORMAT. SELECTION OF DEVICES, ERROR TYPES AND THE TIME SPAN IS OFFERED TO THE USER FOR FLEXIBILITY AND EASE OF OPERATION. THE VARIOUS LISTINGS OFFERED ARE: CHRONOLOGICAL LISTING, SORTED LISTING, SUMMARY OF ERRORS AND GRAPHICAL DISPLAY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS PROGRAM RUNS UNDER CP-V/CP-R AS A BACKGROUND PROGRAM IN AN OVERLAY MODE FOR EXECUTION. THE OTHER FOUR OVERLAY PROGRAMS ARE: 708008, 708009, 708010, AND 708011. REFER TO SPECIFICATION NUMBER 703118 FOR LOADING AND ADDITIONAL INFORMATION.
- 708007 SIGMA 5-9/550/560 CP-V/CP-R-CONTROL PROGRAM FOR ELLA
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE CONTROL PROGRAM FOR ELLA IS THE CONTROLLING SEGMENT WHICH ALLOWS THE USER TO CHOOSE THE VARIOUS FUNCTIONS OFFERED BY THE ERROR LOG LIST/ANALYSIS PROGRAM. FOR FURTHER INFORMATION, REFER TO CATALOG NUMBER 708006.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THE CONTROL PROGRAM WILL NEED THE FOLLOWING PROGRAMS TO FORM THE ERROR LOG LIST/ANALYSIS PROGRAM: 708008, 708009, 708010, AND 708011.
- 708008 SIGMA 5-9/550/560 CP-V/CP-R-CHRONOLOGICAL/SORTED LIST MOD
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE CHRONOLOGICAL/SORTED LISTING PROGRAM IS ONE OF FOUR RELOCATABLE OBJECT MODULES WHICH IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS MODULES UNDER THE CONTROLLING ROOT (ELLA) LISTS OUT THE ERROR RECORDS IN A CHRONOLOGICAL OR SORTED FASHION. REFER TO CATALOG NUMBER 708006 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL. THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG NUMBER 708006).
- 708009 SIGMA 5-9/550/560 CP-V/CP-R-BOUNDARY MODULE FOR ELLA
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE BOUNDARY MODULE SETS THE BOUNDARY VALUES FOR DEVICE, MODEL ERROR TYPES AND TIME SPAN FOR THE ERROR LOG LIST/ANALYSIS PROGRAM. THIS IS ONE OF 4 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708006 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG NUMBER 708006).
- 708010 SIGMA 5-9/550/560 CP-V/CP-R-ERROR SUMMARY MODULE FOR ELLA
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE SUMMARY MODULE LISTS OUT A SUMMARY OF THE ERRORS FROM THE ERROR LOG. THIS IS ONE OF 4 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708006 FOR FURTHER INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG NUMBER 708006).

- 708011 SIGMA 5-9/550/560 CP-V/CP-R-GRAPHICAL DISPLAY MODULE ELLA
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE GRAPHICAL DISPLAY MODULE WILL DISPLAY THE ERROR RECORDS IN A GRAPHICAL MANNER. THIS IS ONE OF 4 RELOCATABLE OBJECT MODULES THAT IS PART OF THE ERROR LOG LIST/ANALYSIS PROGRAM. REFER TO CATALOG NUMBER 708006 FOR ADDITIONAL INFORMATION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CP-V/CP-R OPERATING SYSTEMS. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
THIS PROGRAM WILL NOT RUN EXCEPT AS AN OVERLAY PROGRAM TO THE ERROR LOG LIST/ANALYSIS PROGRAM (CATALOG NUMBER 708006).
- 730000 XEROX 550/560 INSTRUCTION DIAGNOSTIC - AUTO
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE AUTO PROGRAM FUNCTIONALLY TEST THE BASIC INSTRUCTION SET OF A TAURUS COMPUTER USING THE HARDWARE INSTRUCTION SET VALIDATED BY THE HARDWARE PREP PROGRAM. ALL NON-MAPPED MODES OF ADDRESSING INCLUDING INDIRECT INDEX AND BASE ARE VERIFIED. THE TAURUS TRAP LOGIC IS TESTED AND BASIC INSTRUCTION TRAPPING IS TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS WITHIN A TAURUS BASIC PROCESSOR UNIT.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE AUTO PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.
- 730001 XEROX 550/560 INSTRUCTION DIAGNOSTIC - SUFFIX
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE SUFFIX PROGRAM FUNCTIONALLY TESTS THE FOLLOWING INSTRUCTIONS: MBS, CBS, EBS, TBS, TTBS, PSM, PLM, PSM, PLM, MSP, MMC, LRA, CVA, CVS, LM, STM. ALL PERMISSIBLE MODES OF ADDRESSING AND TRAPPING ARE TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS WITHIN A TAURUS BASIC PROCESSOR UNIT.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE SUFFIX PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS, OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.
- 730002 XEROX 550/560 INSTRUCTION DIAGNOSTIC - FADS
AUTHOR:XEROX CORPORATION
ABSTRACT:
THE FADS PROGRAM FUNCTIONALLY TESTS THE INSTRUCTIONS EXECUTED PRIMARILY BY THE EXTENDED ARITHMETIC UNIT. THESE INCLUDE: FAS, FAL, FSS, FSL, FMS, FML, FDS, FDL, DL, DST, DA, DS, DM, DD, DC, DSA, PACK, UNPK, MI, MH, MW, DH, DW, S AND SF. ALL PERMISSIBLE MODES OF ADDRESSING AND TRAPPING ARE TESTED. THE PROGRAM IS DESIGNED TO DETECT AND LOCATE FAULTS WITHIN A TAURUS EXTENDED ARITHMETIC UNIT.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE FADS PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.
- 730003 XEROX 550/560 MEMORY DIAGNOSTIC PROGRAM
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS IS A MEMORY UNIT TEST DESIGNED TO VERIFY BOTH THE MEMORY UNIT CONTROL LOGIC AND THE MEMORY BIPOLAR STORAGE LOGIC. THE PROGRAM DETECTS SINGLE SOLID FAILURES AND ISOLATES THOSE FAILURES TO A PREDETERMINED GROUP OF N.S. MODULES. THE PROGRAM CAN BE CONTROLLED AS TO WHICH TEST CASE CAN OR CAN'T BE EXECUTED AND AS TO WHICH STORAGE TYPE LOGIC MODULES CAN OR CAN'T BE TESTED. THE TEST IS DESIGNED TO RUN IN A MINIMUM AMOUNT OF TIME UNDER DEFAULT CONDITION. THE PROGRAM CAN CHECK ALL MEMORY STORAGE ELEMENTS WITHIN THE MEMORY UNIT EXCEPT THE FIRST 8K OF THE LOWEST ADDRESSABLE MEMORY UNIT. WRITE LOCK OPERATION IS ALSO VERIFIED.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE FIRST 8K OF MEMORY STORAGE IS NORMALLY TESTED BY THE TAURUS HARDWARE PROGRAM. THE MEMORY TEST ASSUMES THAT THE BASIC PROCESSOR TEST (AUTO) HAS OR CAN BE SUCCESSFULLY EXECUTED. THE MEM PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR PROGRAM LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS, OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.
- 730004 XEROX 550/560 MAP DIAGNOSTIC PROGRAM
AUTHOR:XEROX CORPORATION
ABSTRACT:
TAURUS MAP DIAGNOSTIC PROGRAM TESTS THE REAL ADDRESS CALCULATION LOGIC AND ACCESS PROTECTION LOGIC IN ALL THE MAPPED ADDRESSING MODES.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE MAP PROGRAM IS INTERFACED TO THE COMMUNICATIONS CONTROL PROGRAM (CCP) WHICH IS REQUIRED FOR PROGRAM LOADING AND CONTROL. IT IS AVAILABLE ON MAGNETIC TAPE, CARDS OR DISK PACK AND REQUIRES AT LEAST 16K OF MEMORY.

- 730005 XEROX 550/560 MIOP DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS DIAGNOSTIC MAY BE RUN AS EITHER PART OF THE DPS LOAD AND GO SYSTEM, OR AS A FREE-STANDING, FUNCTIONAL MIOP UNIT DIAGNOSTIC. IN ADDITION TO TESTING THE TAURUS MIOP, THIS PROGRAM TESTS THE MI AND PI IN SO FAR AS THESE ARE UTILIZED IN AN ALL IOP CLUSTER. THE PRIMARY OBJECTIVE OF THIS PROGRAM IS TO DETECT ALL SINGLE SOLID FAILURES, ISOLATE THESE TO THE FAILING UNIT, AND IDENTIFY THE MINIMUM FAILING MODULE SET WITHIN THAT UNIT. THIS PROGRAM HAS A MODULE/DRIVER STRUCTURE AND A FORMAT SIMILAR TO OTHER TAURUS MAINFRAME DIAGNOSTICS. ITS OPERATION IS ACCOMPLISHED VIA THE STANDARD TAURUS COMMON COMMUNICATIONS PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM REQUIRES NO ADDITIONAL SOFTWARE, BUT REQUIRES THE FOLLOWING MINIMUM HARDWARE CONFIGURATION: CR, MT, RAD OR DISK AS LOAD DEVICE; A TAURUS MIOP WHICH IS TO BE TESTED; AN ALTERNATE IOP THRU WHICH TO PERFORM LOADING AND PROGRAM I/O, OF THE TEST IOP IS INOPERABLE; AT LEAST 16K OF CORE; A NON-SUSPECT DATA PATH TO TTYCHA OR TTYCHB; EITHER AN SA OR A CI ATTACHED TO THE IOP UNDER TEST; AND AN OPERABLE BP, MI AND PI.
- 730006 XEROX 550/560 INTERRUPT SYSTEM DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS DIAGNOSTIC MAY BE RUN AS EITHER PART OF DPS LOAD AND GO, OR AS A FREE-STANDING, FUNCTIONAL INTERRUPT UNIT DIAGNOSTIC. TESTS CHECK DIO CONTROL, PRIORITY AND TO SOME EXTENT, REAL INTERRUPT VALIDITY. THE GOAL OF THIS PROGRAM IS TO DETECT ALL SINGLE SOLID FAILURES, ISOLATE THESE TO THE FAILING UNIT, AND IDENTIFY THE MINIMUM FAILING MODULE SET WITHIN THAT UNIT. THIS PROGRAM HAS A MODULE/DRIVER STRUCTURE AND A FORMAT SIMILAR TO OTHER TAURUS MAINFRAME DIAGNOSTICS. ITS OPERATION IS ACCOMPLISHED VIA THE STANDARD TAURUS COMMON COMMUNICATIONS PROGRAM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER CCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM REQUIRES NO ADDITIONAL SOFTWARE, BUT REQUIRES THE FOLLOWING MINIMUM HARDWARE CONFIGURATION: CR, MT, RAD OR DISK AS LOAD DEVICE; AT LEAST THE MINIMUM SET OF 22 INTERRUPTS (THOUGH ANY AND ALL OPTIONAL INTERRUPTS WILL BE TESTED IF IMPLEMENTED); A NON-SUSPECT IOP AND DATA PATH TO EITHER TTYCHA OR TTYCHB FOR PROGRAM COMMUNICATIONS AND CONTROL; 16K OF CORE; AND AN OPERABLE BP, MI, PI AND SU.
- 730008 XEROX 550/560 SOFTWARE HARDWARE (SHC) DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE SHC PROGRAM IS DESIGNED TO VALIDATE A SET OF INSTRUCTIONS BEFORE THEY ARE USED BY THE DIAGNOSTIC PROGRAMS THAT FOLLOW. SHC IS THE FIRST PROGRAM ON THE DIAGNOSTIC LIBRARY TAPE. IT IS ASSEMBLED SOCH. IT LOADS ONE CARD AT A TIME INTO X'100' AND EXECUTES THAT CODE BEFORE CALLING THE NEXT CARD.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE SHC PROGRAM DOES NOT REQUIRE A LOADER. IT LOADS DIRECTLY FROM THE HARDWARE BOOT. IT MAY PRECEDE ANY BINARY DECK SINCE IT RESTORES THE ENVIRONMENT BEFORE IT EXITS. OPERATION IS DESCRIBED IN THE LISTING.
- 730009 XEROX 550/560 SYS UNIT/PROCS INTRFACE UNIT DIAG-SUPI
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE TAURUS SYSTEM UNIT/PROCESSOR INTERFACE DIAGNOSTIC PROGRAM IS USED TO TEST A PORTION OF THE LOGIC OF THE INPUT/OUTPUT AND DIRECT INPUT/OUTPUT INSTRUCTION THAT IS CONTAINED IN THE BP, SU, AND PI PROCESSORS. IT INTERFACES WITH THE MONITOR/LAG PROGRAM THAT USE ONLY THE HARDWARE INSTRUCTIONS. THIS FDP CONTAINS THE FUNCTIONAL TEST SUBROUTINES, INDIVIDUAL TEST MODULES AND ALL NECESSARY DATA TO INTERFACE WITH THE DPS OPERATING SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS FDP REQUIRES A MINIMUM TAURUS HARDWARE SYSTEM WITH AT LEAST 16K OF MEMORY.
- 730010 XEROX 550/560 SYSTEM EXERCISER DIAGNOSTIC (SYSX)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DPS SYSTEM EXERCISER PROVIDES THE USER WITH THE CAPABILITY TO OPERATE EVERY UNIT ON ANY SYSTEM SIMULTANEOUSLY. THE PROCESSOR CREATES A MAXIMUM LOAD WHILE APPROACHING THE SYSTEM FAILURE THRESHOLD. THE PROCESSOR INTERFACES WITH THE USER AND THE MONITOR.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 730011 XEROX 550/560 XEROX 32-BIT LIBRARY LOADER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DPS LOADER IS USED TO LOAD OBJECT MODULES IN STANDARD METASYMBOL AND AP ASSEMBLER FORMAT. THE LOADER INITIALLY IS USED TO LOAD THE DPS MONITOR AND IS THEN USED BY THE MONITOR TO LOAD DPS DIAGNOSTIC PROGRAMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 730012 XEROX 550/560 DIAGNOSTIC PROGRAM SYSTEM MONITOR
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DPS MONITOR HANDLES ALL COMMUNICATIONS BETWEEN THE OPERATOR AND THE CURRENTLY RESIDENT PROCESSOR PROGRAM (EDIT, LOAD-AND-GO, OR SYSTEM EXERCISER). THE MONITOR ALSO HANDLES TRAPS, INTERRUPTS, LOADING, AND ERROR AUDITING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 730013 XEROX 550/560 LOAD-AND-GO (LAG) DIAGNOSTIC PROG. SYS.
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DPS LOAD-AND-GO PROCESSOR PROVIDES THE USER WITH THE MEANS OF SELECTIVELY CONTROLLING THE SEQUENTIAL LOADING AND EXECUTION OF THE FUNCTIONAL DIAGNOSTIC PROGRAMS. THE LAG INTERFACES BETWEEN THE MONITOR AND THE FTP'S.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 730014 XEROX 550/560 32-BIT EDIT DIAGNOSTIC SYSTEM PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DPS EDIT PROCESSOR PROVIDES THE USER WITH THE MEANS TO COPY A DPS LIBRARY FROM A LOAD DEVICE TO A SOURCE DEVICE WHILE EXECUTING THE USER'S REQUESTS. THE EDIT INTERFACES BETWEEN THE MONITOR AND THE USER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 730016 XEROX 550/560 MEDIUM SPEED MAGNETIC TAPE DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRAM VERIFIES THE OPERATION OF THE MAGNETIC TAPE I/O SUBSYSTEM CONSISTING OF THE MODEL 3340 MAGNETIC TAPE CONTROLLER AND THE MODEL 3344 THROUGH 3347 MAGNETIC TAPE DRIVES. THE FUNCTIONAL TESTS ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TEST IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM IS INTERFACED TO THE XEROX 560 LOAD AND GO (LAG) PROGRAM AND THE XEROX 560 DIAGNOSTIC PROGRAM MONITOR (DPS). MEMORY REQUIREMENT IS 16K.
- 730017 XEROX 550/560 LINE PRINTER DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PROGRA VERIFIES THE OPERATION OF THE NS LINE PRINTER I/O SUBSYSTEM CONSISTING OF A UNIT RECORD CONTROLLER (URC), LINE PRINTER ADAPTER (LPA), AND A LOW, MEDIUM, OR HIGH SPEED LINE PRINTER. THE FUNCTIONAL TESTS ARE DESIGNED TO DETECT AND ISOLATE FAILURES IN THE I/O SUBSYSTEM. A SET OF UTILITY TESTS IS PROVIDED TO AID IN THE PERFORMANCE OF CORRECTIVE AND PREVENTIVE MAINTENANCE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM IS INTERFACED TO THE XEROX 560 LOAD AND GO (LAG) PROGRAM AND THE XEROX 560 DIAGNOSTIC PROGRAM MONITOR (DPS). MEMORY REQUIREMENT IS 16K.
- 730021 XEROX 550/560 TRAP DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS DIAGNOSTIC PROGRAM INCORPORATES FUNCTIONAL TESTS TO VERIFY THE XEROX 550/560 TRAP SYSTEM IS OPERATING PROPERLY. IT DETECTS HARD FAILURES AND ISOLATES HARDWARE MALFUNCTIONS TO A MINIMUM SET OF HARDWARE MODULES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS FDP REQUIRES A XEROX 550/560 SYSTEM AND THE DPS FOR PROPER EXECUTION OF THE PROGRAM.
- 730022 XEROX 550/560 POWER FAIL-SAFE (PFS) DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS DIAGNOSTIC PROGRAM INCORPORATES FUNCTIONAL TESTS TO VERIFY THAT XEROX 550/560 PFS SYSTEM IS OPERATING PROPERLY. IT DETECTS HARDWARE FAILURES AND ISOLATES FAULTS TO A MINIMUM SET OF HARDWARE MODULES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN MAP.
THE PFS DIAGNOSTIC PROGRAM REQUIRES XEROX 550/560 SYSTEM AND THE DPS FOR PROPER EXECUTION OF THE PROGRAM.

- 730023 XEROX 560 BYTE INSTRUCTION DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 560 BYTE STRING DIAGNOSTIC IS A MODULE DRIVER, DIAGNOSTIC PROGRAM SYSTEM INTERFACED PROGRAM. THIS PROGRAM TESTS THE BYTE STRING INSTRUCTIONS. BYTE STRING DETECTS HARD FAULTS IN THE BASIC PROCESSOR UNIT AND ISOLATES THE FAULT TO THE MINIMUM NUMBER OF MODULES POSSIBLE. THE BYTE STRING INSTRUCTIONS TESTED ARE: MBS, CBS, TBS, AND TTBS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP.
THE BYTE STRING DIAGNOSTIC PROGRAM REQUIRES THE XEROX 560 SYSTEM AND THE XEROX 550/560 DIAGNOSTIC PROGRAM SYSTEM FOR PROPER PROGRAM EXECUTION.
- 730024 XEROX 560 DECM DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 560 DECIMAL DIAGNOSTIC IS A MODULE DRIVER, DIAGNOSTIC PROGRAM SYSTEM INTERFACED PROGRAM. DECIMAL DETECTS HARD FAILURES IN THE EXTENDED ARITHMETIC UNIT FOR THE DECIMAL INSTRUCTIONS AND ISOLATES THE FAULT TO THE MINIMUM NUMBER OF MODULES POSSIBLE. THE PROGRAM TESTS THE DECIMAL INSTRUCTIONS: DL, DST, DA, DS, DM, DD, DC, DSA, PACK, UNPK, AND EBS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPS OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP.
THE DECIMAL DIAGNOSTIC PROGRAM REQUIRES THE XEROX 560 SYSTEM AND THE XEROX 550/560 DIAGNOSTIC PROGRAM SYSTEM FOR PROPER EXECUTION.
- 730025 XEROX 560 DIAGNOSTIC PROGRAM MAGNETIC TAPE LIBRARY
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE DIAGNOSTIC PROGRAM MAG TAPE LIBRARY (DPSL) IS A MULTIPLE FILE MEDIA. EACH FILE CONSISTS OF ONE DIAGNOSTIC PROGRAM. THE DPSL IS LOADED BY THE DPSL-LOADER WHICH IS PART OF DPSL. THE DPSL CONTROL PROGRAM WILL LOAD ANY FILE ON REQUEST. THE COMPRESSED LIBRARY TAPE (-46) AND LISTING TAPE (-56) IS AVAILABLE ONLY FROM FIELD ENGINEERING REGIONAL MANAGEMENT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. THE DPSL IS SPECIFICALLY DIRECTED TO A SYSTEM CONFIGURATION WHICH INCLUDES MAGNETIC TAPE. THE DPSL NEEDS A MINIMUM OF 16K.
- 730029 XEROX 550/560 SYSTEM CONTROL CONSOLE DIAGNOSTIC PROG.
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS SPECIFICATION DEFINES THE INPUT/OUTPUT DIAGNOSTIC PROGRAM (IOPD) FOR THE XEROX 550/560 SYSTEM CONTROL CONSOLE (SCC) CONTROLLER AND THE TELETYPE MODEL 35 KSR OR DIABLO MYTYPE TERMINAL. THIS DOCUMENT DESCRIBES ALL FUNCTIONAL TESTS AND ALL UTILITY TESTS OF THIS IOPD. THEY FEATURE COMMON TO ALL IOPDS ARE DEFINED IN OTHER DOCUMENTS LISTED IN SECTION 2.0 AS A CONSEQUENCE, THIS SPECIFICATION DEALS ONLY WITH THE DESIGN UNIQUE TO THE SCC.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN AP.
- 730030 XEROX 550/560 32-BIT I/O UTILITY PROGRAM
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS PROGRAM IS DESIGNED AS A TOOL FOR THE DEVELOPMENT, MANUFACTURING TEST, AND COMPUTER FIELD ENGINEER TO DEFINE AND EXECUTE A SEQUENCE OF TEST STATEMENTS FOR THE PURPOSE OF EXECUTING I/O DEVICE. THE I/O UTILITY LANGUAGE OF THIS PROGRAM IS DESIGNED TO ENABLE THE USER TO CONSTRUCT I/O PROGRAMS OF A DEDICATED XEROX 32-BIT SYSTEM VIA A CONSOLE WITHOUT THE NEED TO BE IMMEDIATELY FAMILIAR WITH XEROX 32-BIT MACHINE LANGUAGE AND TO EXECUTE THE PROGRAM. THE PROGRAM INCLUDES CONTROL AND UTILITY FUNCTIONS FOR PROGRAM DEBUGGING, SAVING AND LOADING.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 704004 SIGMA 5-9 KEYBOARD DISPLAY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM FOR THE KEYBOARD DISPLAY IS ASSEMBLED WITH AND OPERATES UNDER THE CONTROL OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). IT PROVIDES THE FOLLOWING FEATURES: A VERIFICATION OF THE COMMUNICATIONS INTERFACE, INCLUDING PRIMARY AND AUXILIARY KEYBOARDS AND ASSOCIATED CONTROL LOGIC, A VERIFICATION OF THE HARD COPY MONITOR FROM THE COMMUNICATIONS INTERFACE, SEVERAL DISPLAY PATTERNS FOR THE ALIGNMENT OF THE ANALOG CIRCUITRY.
COMMENTS:
REQUIRED CONFIGURATION: A SIGMA 5 OR 7 WITH 8K OF MEMORY A CARD OR PAPER TAPE READER, A KEYBOARD/PRINTER, A CHARACTER ORIENTED COMMUNICATIONS (COC) CONTROLLER (WITH DIO INTERFACE, TWO LEVELS OF EXTERNAL INTERRUPTS, AND PROPER SEND/RECEIVE MODULES FOR INTERFACE WITH A KEYBOARD DISPLAY) AND A KEYBOARD DISPLAY. TWO COMPATIBLE DATA SETS ARE REQUIRED, IF THE KEYBOARD DISPLAY IS TO BE REMOVED. A LINE PRINTER IS OPTIONAL.
- 704017 SIGMA 5/7 REAL-TIME CLOCK TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF VERIFYING THE OPERATION OF THE REAL TIME CLOCKS BY COMPUTING THE :TIME OF DAY: OR :ELAPSED TIME:.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER WITH 4K OR MORE MEMORY, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER AND ONE OR MORE REAL TIME CLOCKS.
- 704018 SIGMA 5 INTEGRAL IOP CHANNEL TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC TEST PROGRAM WILL OPERATE AS A FREE STANDING PROGRAM WITH THE JX58 TESTER. THE FIRST PART OF THE PROGRAM WILL TEST THE RD(READ DIRECT)/WD(WRITE DIRECT) INTERFACE. THE SECOND PART OF THE TEST WILL EXERCISE ALL THE FUNCTIONS OF THE INTEGRATED IOP BY SIMULATING THE DEVICE CONTROLLER WITH THE JX58 TESTER. THE TWO PARTS OF THE PROGRAM ARE INDEPENDENT OF EACH OTHER (I.E. RUNNING ONE PART DOES NOT NECESSITATE RUNNING THE OTHER PART).
COMMENTS:
CONFIGURATION: SIGMA 5 CPU, CARD READER OR PAPER TAPE READER, JX58 TESTER.
- 704029 SIGMA 5/7 FORMAT CONVERTER - CPU LOADER DOC.
AUTHOR: XEROX
ABSTRACT:
CONVERTS OBJECT DECKS INTO SPECIAL BINARY FORMAT INCLUDING A LOADER. DOCUMENTATION COVERS THE LOADER WHICH IS USED FOR MOST OF THE SIGMA 5/7 CPU DIAGNOSTIC PROGRAMS.
COMMENTS:
REQUIRES 18K OF CORE, A CARD READER AND CARD PUNCH WITH DEVICE ADDRESSES OF 03 AND 04 RESPECTIVELY.
- 704042 SIGMA 5/7 CPU DIAGNOSTIC SYSTEM (VERIFY)
AUTHOR: XEROX
ABSTRACT:
TESTS AND DIAGNOSES ERRORS PERTAINING TO LPSD, XPSD, LW, STW, BCS, BCR, WAIT, AND, EOR, BIR INSTRUCTIONS.
COMMENTS:
THIS PROGRAM WILL RUN ON ANY CONFIGURATION. OCCUPIES 2514 DECIMAL LOCATIONS. TECHNICAL MANUAL IS 900870 (SIGMA 7 VERIFY DIAGNOSTIC PROGRAM MANUAL). THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER (704042-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD VERIFY. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG.'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.
- 704043 SIGMA 5/7 CPU DIAGNOSTIC SYSTEM (PATTERN)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE OBJECT OF THIS PROGRAM IS AID THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH THE CPU'S ABILITY TO ADDRESS AND ACCESS ALL AVAILABLE CORE MEMORY, AND THE FIRST BLOCK OF FAST MEMORY. THE PROGRAM TESTS THE ABILITY TO ACCESS MEMORY BY STORING AND THEN CHECKING THE CONTENTS OF EACH MEMORY CELL. THE PROGRAM TESTS THE ABILITY TO ADDRESS MEMORY BY TRANSFERRING TO EACH MEMORY CELL AND CHECKING THE ADDRESS OF THE NONEXISTENT INSTRUCTION IN A TRAP ROUTINE. THE PROGRAM IS LOADED USING THE STANDARD BINARY DIAGNOSTIC LOADER. THE FUNCTIONS AND OPERATIONS TESTED BY AUTO (704044) MUST BE WORKING BEFORE PATTERN IS RUN.
COMMENTS:
THIS PROGRAM WILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900891 (SIGMA 7 PATTERN DIAGNOSTIC PROGRAM MANUAL). PATTERN OCCUPIES 256 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER (704043-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD PATTERN. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG.'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.

- 704044 SIGMA 7 CPU DIAGNOSTIC SYSTEM (AUTO)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH ALL SIGMA 7 INSTRUCTIONS EXCLUDING DECIMAL, FLOATING POINT, BYTE STRING, STACK, MULTIPLE AND CONVERT INSTRUCTIONS. THE OPERATIONS AND FUNCTIONS TESTED BY VERIFY (704042) MUST BE WORKING BEFORE AUTO IS RUN.
COMMENTS:
THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT WHICH INCLUDES A SELF-LOADER (704044-74). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD AUTO. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG'S 2 THRU 4, FIRST ADDRESS, LAST ADDRESS AND STARTING ADDRESS OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED. THIS PROGRAM WILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900872 (SIGMA 7 AUTO DIAGNOSTIC PROGRAM MANUAL). AUTO OCCUPIES 6400 DECIMAL LOCATIONS.
- 704045 SIGMA 7 CPU DIAGNOSTIC SYSTEM (SUFFIX)
AUTHOR: XEROX
ABSTRACT:
THE OBJECT OF THIS PROGRAM IS TO AID THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH ALL SIGMA 7 BYTE STRING (EXCLUDING EDIT BYTE STRING), STACK, MULTIPLE AND CONVERT INSTRUCTIONS. THE PROGRAM CONSISTS OF A 'DRIVER PROGRAM' AND A 'DATA FIELD'. THE DATA FIELD IS COMPRISED OF MANY DATA BLOCKS, EACH OF WHICH CONTAIN PRE-SETTINGS OF PROGRAMMABLE REGISTERS, THE INSTRUCTION TO BE TESTED AND THE PRE-DETERMINED RESULT WITH WHICH TO TEST THE REGISTERS. THE DRIVER PROVIDES THE 'CONTROLS' TO USE THE INFORMATION IN THE DATA FIELD FOR ERROR DETECTION AND DISPLAY. THE PROGRAM IS LOADED USING THE STANDARD BINARY DIAGNOSTIC LOADER. THE FUNCTIONS AND OPERATIONS TESTED BY AUTO (704044) MUST BE WORKING BEFORE SUFFIX IS RUN.
COMMENTS:
THIS PROGRAM WILL RUN ON ANY CONFIGURATION. TECHNICAL MANUAL IS 900893 (SIGMA 7 SUFFIX DIAGNOSTIC PROGRAM MANUAL). SUFFIX OCCUPIES 3645 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER(704045-83,-84). TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD SUFFIX. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG.'S 2 THRU 4, FIRST ADR, LAST ADR AND STARTING ADR OF PROGRAM TO BE DUMPED. THEN CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.
- 704046 SIGMA 5/7 CPU DIAGNOSTIC SYSTEM (FLOAT)
AUTHOR: XEROX
ABSTRACT:
FLOAT IS DESIGNED TO TEST AND AID IN DIAGNOSING FAILURES ASSOCIATED WITH ALL FLOATING POINT INSTRUCTIONS EXCEPT FLOATING SHIFT (SF). SUCCESSFUL EXECUTION OF SIGMA 7 AUTO (PROGRAM NO. 704044) IS A PREREQUISITE TO THE EXECUTION OF FLOAT.
COMMENTS:
IT WILL RUN ON ANY CONFIGURATION THAT INCLUDES THE FLOATING POINT ARITHMETIC OPTION. TECHNICAL MANUAL IS 900898 (SIGMA 7 FLOAT DIAGNOSTIC PROGRAM MANUAL). FLOAT OCCUPIES 869 DECIMAL LOCATIONS. THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT AND INCLUDES ITS OWN LOADER.(704046-83,-84) TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER. THE FOLLOWING STEPS MUST BE TAKEN: LOAD CPU DIAG ABS BIN CONV (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD FLOAT. TRANSFER CONTROL TO LOCATION 2700. A HALT WILL OCCUR. ENTER INTO REG.'S 2 THRU 4, FIRST ADR, LAST ADR AND STARTING ADR. CLEAR THE HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED.
- 704047 SIGMA 7 CPU DIAGNOSTIC SYSTEM (DECIMAL)
AUTHOR: XEROX
ABSTRACT:
DECIMAL IS DESIGNED TO TEST ALL SIGMA 7 DECIMAL INSTRUCTIONS INCLUDING PACK, UNPACK AND EDIT BYTE STRING. SIGMA 7 AUTO (704044) IS A PREREQUISITE.
COMMENTS:
REQUIRES THE DECIMAL OPTION AND A CARD OR PAPER TAPE INPUT DEVICE. THIS PROGRAM IS IN A SPECIAL BINARY FORMAT WHICH INCLUDES A LOADER. REFERENCE PUBLICATION 901584 - SIGMA 5/7 CPU FORMAT CONVERTER / CPU LOADER DOCUMENTATION.
- 704048 SIGMA 7 CPU DIAGNOSTIC SYSTEM (MAP)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS THE OPERATOR IN TESTING OR DIAGNOSING FAILURES ASSOCIATED WITH THE MAP, THE MEMORY PROTECT SYSTEMS, THE PROGRAM CONTROL SYSTEM, AND ALL FUNCTIONS OF THE LMAP, LPC AND LLOCKS INSTRUCTIONS.
COMMENTS:
THIS PROGRAM IS PROVIDED IN A SPECIAL BINARY FORMAT, AND INCLUDES ITS OWN LOADER.(704048-83,-84) TO GENERATE THE PROGRAM IN THIS FORM FROM THE BINARY OUTPUT OF THE ASSEMBLER, THE FOLLOWING STEPS MUST BE TAKEN: LOAD 'CPU DIAG ABS BIN CONV' (704029) INTO SIGMA 7 OR SIGMA 7 SIMULATOR. THEN LOAD MAP. TRANSFER CONTROL TO LOC. 2700. A HALT WILL OCCUR. ENTER INTO REG. 2 THRU 4;FIRST, LAST AND STARTING ADDRESSES OF MAP. THEN CLEAR HALT. THE LOAD CARD IS AUTOMATICALLY GENERATED. THIS PROGRAM IS PART OF 704040. IT WILL RUN ON ANY CONFIGURAT. EQUIPPED WITH THE MAP OR MEMORY PROTECTION OPTIONS. TECHNICAL MANUAL IS 900920 (SIGMA 7 MAP DIAGNOSTIC PROGRAM MANUAL). MAP OCCUPIES 450 DECIMAL LOCATIONS.
- 704057 SIGMA 5/7 MULTIPLEX IOP DIAGNOSTIC (MIOP)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE ADVAIABLE A MULTIPLEXING IOP DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE. THE PROGRAM OPERATES IN THE ENVIRONMENT OF A XDS JX50 TESTER.
COMMENTS:
REQUIRED CONFIGURATION - SIGMA WITH 4K MEMORY, MULTIPLEXING IOP AND AN XDS JX50 TESTER.

- 704062 SIGMA 5/7 MEMORY PROTECT DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
CHECKS THAT ALL COMBINATIONS OF THE WRITE LOCKS AND WRITE KEYS GENERATE THE PROPER RESPONSE FOR EACH BLOCK OF MEMORY ADDRESSES THE COUNTER PULSE INTERRUPTS ARE USED TO TEST INSTRUCTION INTERRUPTIBILITY.
COMMENTS:
REQUIRES A SIGMA 5 OR 7 COMPUTER WITH 8K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR PAPER TAPE READER.
- 704067 SIGMA 5/7 MEMORY DIAGNOSTIC (MEDIC 75)
AUTHOR: XEROX
ABSTRACT:
MEDIC 75 CONSISTS OF AN EXECUTIVE ROUTINE AND FOURTEEN INDIVIDUAL MEMORY TESTS WHICH ARE EACH DESIGNED TO PERFORM A DISCRETE MEMORY TESTING FUNCTION. THE INDIVIDUAL TESTS ARE CONTROLLED BY THE EXECUTIVE ROUTINE, WHICH IN ADDITION TO CONTROLLING THE TEST SEQUENCE AND SELECTION, MONITORS ALL OPERATOR REQUESTS, PERFORMS THE PRINTING OPERATIONS FOR ALL TESTS, AND RELOCATES MEDIC 75 TO ALTERNATE AREAS OF CORE SO THAT THE ENTIRE MEMORY MAY BE TESTED.
COMMENTS:
MEDIC 75 OCCUPIES 888 DECIMAL LOCATIONS. IT WILL RUN ON ANY CONFIGURATION THAT INCLUDES 8K OF MEMORY OR MORE. TECHNICAL MANUAL IS 900825.
- 704070 SIGMA 5-9 DIAGNOSTIC CONTROL PROGRAM (DCP)
AUTHOR: XEROX
ABSTRACT:
PROVIDES PROGRAM INTERFACE BETWEEN OPERATOR AND SUBROUTINES (VIA SYNTACTICAL TEST LANGUAGE) ASSEMBLED AS AN INTEGRAL PART OF THE DCP TO ACTIVATE AND CONTROL A SPECIFIC PERIPHERAL DEVICE THE DCP IS CATALOGUED AS A REFERENCE FOR PROGRAMS ASSEMBLED WITH AND OPERATED WITHIN THE ENVIRONMENT OF THE DCP.
COMMENTS:
MINIMUM COMPUTER CONFIGURATION: MEMORY 4K OR DEPENDENT UPON INTERFACED PROGRAM, KEYBOARD/PRINTER, PAPER TAPE OR CARD READER FOR INPUT MEDIA, HARDWARE OPTIONS NOT REQUIRED PROGRAM DESCRIPTION: APPROXIMATELY 50 PAGES PROGRAM LISTING: APPROXIMATELY 50 PAGES
- 704121 SIGMA 5/7 MEMORY INTERLEAVING TEST
AUTHOR: XEROX
ABSTRACT:
VERIFIES THE SUCCESSFUL OPERATION OF MEMORY INTERLEAVING, OR: TO DETECT ERRORS DUE TO INTERLEAVING DIFFICULTIES CAUSED BY PROGRAM GENERATED 'WORST ACCESS' PATTERNS. THE FIRST OF TWO SECTIONS IS A MEMORY ADDRESSING TEST. THE SECOND SECTION ATTEMPTS TO ACCESS BETWEEN INTERLEAVED MODULES AT THE FASTEST POSSIBLE PROGRAMMABLE RATE. MIT IS MEANT TO SUPPLEMENT THE MEMORY DIAGNOSTIC 'MEDIC 75' AND IS NOT INTENDED TO BE A REPLACEMENT OR BRIEFER VERSION OF THE DIAGNOSTIC. MIT TESTS THE INTERLEAVING FEATURE WHICH MEDIC 75 REQUIRES BE DISABLED. MIT SHOULD NEVER BE EXECUTED UNLESS MEDIC 75 IS KNOWN TO BE SUCCESSFULLY OPERATING.
COMMENTS:
REQUIRES MINIMUM OF 8K CORE AND MUST INCLUDE TWO OR FOUR INTERLEAVED MODULES MINIMUM. MIT OCCUPIES 72 DECIMAL LOCATIONS.
- 704122 SIGMA 5/7 POWER FAIL SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF VERIFYING THE POWER OFF-POWER ON INTERRUPTS AND MACHINE FUNCTIONS WHEN POWER FAILURE OCCURS
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER WITH 4K OR MORE MEMORY, KEYBOARD/PRINTER, CARD READER OR PAPER TAPE READER AND POWER FAIL-SAFE OPTION (POWER OFF-POWER ON INTERRUPTS)
- 704143 SIGMA 5/7 INTERRUPT DIAGNOSTIC (ID)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC PROGRAM FOR CHECKOUT AND TESTING OF THE FOLLOWING INTERRUPTS - 1. OVERRIDE GROUP (EXCLUDING POWER FAIL-SAFE) 2. COUNTER GROUP 3. INPUT/OUTPUT GROUP 4. EXTERNAL INTERRUPTS
COMMENTS:
REQUIRED CONFIGURATION - SIGMA WITH 4K MEMORY. AN XDS JX58 TESTER IS REQUIRED TO VERIFY THE EXTERNAL INTERRUPT INTERFACE.
- 704174 SIGMA 5 SIGMA 5 CPU DIAGNOSTIC (SUFFIX)
AUTHOR: XEROX
ABSTRACT:
TESTS LOAD MULTIPLE, STORE MULTIPLE, PUSH DOWN AND MMC INSTRUCTIONS. INTERRUPTIBILITY OF INSTRUCTIONS IS TESTED BY USING THE COUNTER PULSE INTERRUPTS.
COMMENTS:
REQUIRES A SIGMA 5 COMPUTER WITH 8K OF MEMORY, A KEYBOARD PRINTER AND A CARD READER OR PAPER TAPE READER.

- 704287 SIGMA 5 CPU DIAGNOSTIC - AUTO
AUTHOR: XEROX CORPORATION
ABSTRACT:
TESTS THE MAJOR INSTRUCTION CATEGORIES SUCH AS LOAD, STORE, BRANCH, COMPARE, SHIFT AND FIXED POINT ARITHMETIC. TESTS INSTRUCTION INTERRUPTIBILITY BY USING THE COUNT PULSE INTERRUPTS. PROVIDES THE OPTION TO TEST INSTRUCTION COMPATIBILITY WITH INTEGRAL IOP OPERATIONS.
COMMENTS:
REQUIRES MINIMUM OF 8K CORE MEMORY. -73 AND -74 ARE FOR 8K SYSTEMS. -83 AND -84 ELEMENTS ARE FOR GREATER THAN 8K CONFIGURATIONS.
- 704340 SIGMA 5-9 CFE-3 TEST
AUTHOR: XEROX
ABSTRACT:
EXERCISES AND DIAGNOSES FAILURES IN THE CFE-3 WHILE FUNCTIONING WITHIN THE FRAMEWORK OF A SIGMA 5 OR SIGMA 7 SYSTEM ENVIRONMENT
COMMENTS:
MINIMUM REQUIREMENTS: 1. 4K CORE 2. CARD READER OR PAPER TAPE READER 3. KEYBOARD PRINTER
- 704356 SIGMA 5-9 RELOCATABLE DIAGNOSTIC PROGRAM LOADER
AUTHOR: XEROX
ABSTRACT:
THIS LOADER LOADS THE OBJECT PROGRAM MEDIA GENERATED BY THE 'SIGMET' OR META-SYMBOL TWO PASS ASSEMBLERS. THE OBJECT PROGRAM IS RESTRICTED TO ONE ABSOLUTE OR RELOCATABLE SECTION, WITH NO EXTERNAL REFERENCES OR DEFINITIONS AND PROVIDES LIMITED USAGE OF EXPRESSIONS PERMITTED IN SIGMA META-SYMBOL. THE OBJECT PROGRAM RELOCATION BIAS, IF DESIRED, IS SPECIFIED AT LOAD TIME. THE LOADER AUTOMATICALLY RELOCATES ITSELF TO THE LAST 128 MEMORY LOCATIONS. THE OBJECT PROGRAM TO BE LOADED MUST BE ORIGINATED ABOVE 3F HEXADECIMAL.
COMMENTS:
COMPUTER CONFIGURATION: SIGMA 5 OR SIGMA 7 COMPUTER, 4K MEMORY, CARD READER OR 8 LEVEL PAPER TAPE READER.
- 704427 SIGMA 5/7 JT-14 PET UNIT TEST PATTERN CARD DECK
AUTHOR: XEROX
ABSTRACT:
PROVIDES TEST PATTERNS FOR TESTING THE SIGMA CARD READER, MODELS 7120/7121/7122/7140 WITH THE JT-14 PERIPHERAL EQUIPMENT TESTER (PET). 49 CARD TEST DECK CONSISTS OF 3 PARTS AS FOLLOWS: PART 1 - EBCDIC PATTERN: CARDS 1 THRU 16 CONTAIN THE COMPLETE 256 EBCDIC CHARACTER CODE SET REPEATED 5 TIMES FOR TESTING THE READ EBCDIC MODE. PART 2 - BINARY PATTERN: CARDS 17 THRU 48 CONTAIN 15 SETS OF A RECURSIVE 256 BYTE PATTERN (HEX. 00-FF) FOR TESTING THE READ BINARY MODE. THE PET COUNTER IS USED TO COMPARE EACH BYTE. PART 3 - INVALID PATTERN: CARD 49 CONTAINS 80 COLUMNS OF INVALID EBCDIC CODES (PUNCH COMBINATIONS IN ROWS 1 THRU 7) FOR TESTING READER VALIDITY CHECKING LOGIC.
COMMENTS:
REFERENCES: DWG. NO. 132036 - JT-14 TESTER OPERATING INSTRUCTIONS DWG. NO. 124775 - SIGMA CARD READER TEST PROCEDURES SEE THE CARD READER OPERATIONS/TECHNICAL MANUAL, 901068, FOR MORE INFORMATION.
- 704786 SIGMA 7 FREESTANDING CONSOLE EXAMINER (FACE)
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO ASSIST IN DETECTING AND DIAGNOSING FAILURES ASSOCIATED WITH THE FREESTANDING CONSOLE. THE PROGRAM IS COMPRISED OF A MONITOR ROUTINE WHICH PROVIDES THE BASIC CONTROL AND OBJECT TEST ROUTINES. THE PROGRAM WILL INDICATE HARDWARE FAULTS EITHER THROUGH UNIQUE ERROR WAITS OR KEYBOARD PRINTER MESSAGES. FAULT ISOLATION IS PROVIDED THROUGH REFERENCE CHARTS INCLUDED IN THE PROGRAM DOCUMENTATION.
- 704788 SIGMA 5/7 SELECTOR IOP TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A SELECTOR IOP DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE. THE PROGRAM OPERATES IN THE ENVIRONMENT OF A XDS JX58 TESTER.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5 OR SIGMA 7 WITH 4K OR MORE OF MEMORY, PAPER TAPE READER OR CARD READER, KB/PRINTER OPTIONAL, SELECTOR IOP, AN XDS JX58 TESTER.
- 705292 SIGMA 5/7 4 BYTE MIOP TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL PROVIDE THE USER WITH A MEANS OF TESTING AN XDS MODEL 8273/8473 MULTIPLEXING INPUT/OUTPUT PROCESSOR (MIOP) INDEPENDENT OF THE PERIPHERAL ENVIRONMENT. PARAMETRIC INFORMATION MAY BE INPUT AND TEST RESULTS MAY BE OUTPUT VIA THE PROCESSOR CONTROL PANEL OR A KEYBOARD/PRINTER DEPENDING UPON THE USER'S REQUIREMENT.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5/7 WITH 4K OF MEMORY, XDS MODEL 8273/8473 MULTIPLEXING INPUT/OUTPUT PROCESSOR, XDS MODEL JX58 DEVICE CONTROLLER SIMULATOR, AND A PAPER TAPE OR CARD READER FOR LOADING THE PROGRAM. OPTIONAL EQUIPMENT: A KEYBOARD/PRINTER FOR PROGRAM COMMUNICATION.

- 705295 SIGMA 5/7 STANFORD DMS10 DIRECT TO MEMORY DIAG.
AUTHOR: XEROX
ABSTRACT:
THIS SIGMA 5/7 DIAGNOSTIC FOR THE STANFORD DMS10 DIRECT MEMORY INTERFACE SYSTEM PROVIDES A METHOD OF TESTING, ADJUSTING, AND DEMONSTRATING THE 3 CONTROLLERS IN THE DMS10. ALL ANALOG INPUT AND OUTPUT TEST SUBROUTINES ARE DESIGNED TO OPERATE WITHIN THE ENVIRONMENT OF THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP) XDS MANUAL NO. 900712
COMMENTS:
EQUIPMENT: ANY XDS SIGMA 5/7 WITH MINIMUM OF 8K MEMORY, WITH A MEMORY PORT DEDICATED TO THE USE OF THE DMS10, A DMS10 WITH DAC CONTROLLER OPTIONAL, A CONSOLE TYPEWRITER. ON SIGMA 5, MODEL 8270 EXTERNAL INTERFACE FEATURE.
- 705358 SIGMA 5/7 CCS-20 DIAGNOSTIC PROGRAM WITH HANDLERS
AUTHOR: XEROX
ABSTRACT:
THE CCS-20 DIAGNOSTIC PROGRAM WILL TEST AND EXERCISE THE XDS MODEL CCS-20 COMPUTER TO COMPUTER HIGH SPEED DATA LINK. THIS PROGRAM IS RUN IN CONJUNCTION WITH THE SIGMA 2 CCS-20 DIAGNOSTIC.
- 705390 SIGMA 5/7 MULTI-PROCESSOR EXERCISER
AUTHOR: XEROX
ABSTRACT:
EXERCISES ALL CPUS IN A MULTI-PROCESSOR CONFIGURATION WITH EACH CPU SEQUENTIALLY USING ALL OF ITS MEMORY.
COMMENTS:
CONFIGURATION IS A SIGMA 5 OR 7 MULTI-PROCESSOR WITH UP TO 4 CPUS. AT LEAST ONE CPU MUST CONTROL AN IOP WITH CARD READER OR PAPER TAPE AND THAT CPU (MASTER) MUST SHARE SOME MEMORY WITH EACH OF THE OTHER CPUS (SLAVES). PREREQUISITE: ALL STAND-ALONE CPU DIAGNOSTICS MUST HAVE RUN SUCCESSFULLY ON EACH CPU.
- 705428 SIGMA 5/7 192 CHAR POTTER LINE PRINTER TEST PROG.
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS A REVISION OF THE XDS SIGMA LINE PRINTER TEST PROGRAM 704777-800 TO ALLOW IT TO OPERATE THE 192 CHARACTER POTTER LINE PRINTER. ALL DIRECTIVES IN 704777 ARE INCLUDED IN THIS PROGRAM. ONE NEW DIRECTIVE HAS BEEN ADDED TO DEMONSTRATE THE OVERPRINTING CAPABILITIES.
- 705663 SIGMA 5/7 BADGE READER DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS IS A DIAGNOSTIC PROGRAM USED TO TEST AND EXERCISE THE SPECIAL BADGE READER TERMINAL WORKING THRU THE COCC ON THE SIGMA 5/7. IT OPERATES UNDER CONTROL OF THE DIAGNOSTIC CONTROL PROGRAM AND INCLUDES DIRECTIVES AND OPERATIONAL PROCEDURES FOR CHECKING OUT THE BADGE READER, THUMBWHEEL SWITCHES AND CARD READER.
- 705688 SIGMA 5 CHECK OUT AID AND READINESS TEST (CART)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A METHOD FOR TESTING A TELEMETRY FRONT END. TWO TYPES OF TESTS MAY BE PERFORMED: 1) DIO TEST 2) SYSTEM TEST. CONTROL REQUESTS ARE ENTERED AT THE TELETYPE. DIO'S ATTACHED TO THE FRONT END MAY BE TESTED INDIVIDUALLY OR AS A GROUP. A STATUS RESPONSE IS PRINTED ON THE TELETYPE IF THE DIO IS NOT ACKNOWLEDGED. THE SYSTEM TEST SIMULATES DATA FOR THE FRONT END. CIRCULAR LOGS ARE KEPT OF INPUT DATA, INTERRUPTS, INPUT DATA ERRORS, AND TIME/QUALITY WORDS.
COMMENTS:
MINIMUM CORE REQUIRED FOR THIS PROGRAM IS 12K IF THE RELOCATABLE BINARY CARDS ARE LOADED WITH THE STAND-ALONE SYSTEM LOADER OR 16K IF LOADED WITH THE ABSOLUTE BINARY DECK.
- 705690 SIGMA 5/7 STAND-ALONE SYSTEM EXERCISER (SNAP 3.2)
AUTHOR: XDS
ABSTRACT:
SNAP 3.2 IS A STAND ALONE SYSTEM EXERCISER THAT PROVIDES THE USER WITH A TOOL THAT CAN BE USED TO AID IN THE ISOLATION OF SYSTEM FAILURES THAT ARE ENCOUNTERED UNDER THE OPERATING SYSTEM. THE PROGRAM IS CAPABLE OF SIMULTANEOUSLY OPERATING ALL OR ANY COMBINATION OF DEVICES LISTED BELOW AT OR APPROACHING THEIR MAXIMUM TRANSFER RATES WHILE CHECKING A LARGE PERCENTAGE OF THE DATA BEING TRANSFERRED.
COMMENTS:
REQUIRED CONFIGURATION: SIGMA 5/7 WITH 16K MEMORY, AT LEAST ONE MAG TAPE OR RAD, A CARD READER AND A TELETYPE. DEVICES: 1. TWO RAD CTRLS WITH UP TO EIGHT RAD DEVICES (7204,7212,7232) ON EACH CONTROLLER 2. TWO MAG TAPE CONTROLLERS WITH ONE UNIT CONNECTED TO EACH. 3. ONE LINE PRINTER. 4. ONE TELETYPE. 5. ONE CARD READER. 6. ONE CARD PUNCH. 7. ONE PAPER TAPE STATION. 8. ONE COM GEAR TERMINAL.
- 705721 SIGMA 5/7 MIOP WITH MAINTENANCE SUBCONTROLLER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE USER WITH A MEANS OF TESTING A 4 BYTE MIOP UTILIZING THE MAINTENANCE SUBCONTROLLER AND MIOP DISPLAY CAPABILITY. A SECTION OF THE PROGRAM IS USED TO VERIFY THE DIO INTERFACE.
COMMENTS:
THIS PROGRAM WILL BE USED IN CONJUNCTION WITH MAINTENANCE SUBCONTROLLER SELF-TEST DIAGNOSTIC (901888) TO ESTABLISH MAINTENANCE SUBCONTROLLER OPERABILITY, AND TO DELIMIT MALFUNCTIONS TO EITHER THE MS OR MIOP. A MINIMUM OF 8K OF CORE AND A CARD READER OR PAPER TAPE READER ARE REQUIRED. KEYBOARD COMMUNICATION IS OPTIONAL.

- 705722 SIGMA 5/7 SIOP DIAGNOSTIC (MS)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES THE USER WITH A MEANS OF TESTING AN SIOP UTILIZING THE MAINTENANCE SUBCONTROLLER AND SIOP DISPLAY CAPABILITY.
COMMENTS:
THIS PROGRAM WILL BE USED IN CONJUNCTION WITH THE MAINTENANCE SUBCONTROLLER SELF-TEST DIAGNOSTIC TO DELIMIT MALFUNCTIONS TO EITHER THE MS OR SIOP. A MINIMUM OF 8K OF CORE, AND A CARD OR PAPER TAPE READER AS INPUT DEVICE ARE REQUIRED. KEYBOARD COMMUNICATION IS OPTIONAL.
- 705723 SIGMA 5/7 MAINTENANCE SUBCONTROLLER SELF-TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROVIDES THE USER WITH THE CAPABILITY OF DETECTING AND ISOLATING ALL SOLID LOGIC FAILURES OCCURRING WITHIN THAT PORTION OF MAINTENANCE SUBCONTROLLER LOGIC STILL FUNCTIONAL WHEN THE MS IS ISOLATED FROM THE IOP FOR SELF-TEST PURPOSES. MOST OF THE DATA TRANSFER PATHS AND CONTROL CHARACTERISTICS ASSOCIATED WITH THE MS/IOP AND MS/DIO INTERFACES ARE FUNCTIONALLY TESTED.
COMMENTS:
THIS PROGRAM WILL BE USED IN CONJUNCTION WITH MS ORIENTED IOP PROGRAMS TO ESTABLISH MS OPERABILITY AND TO DELIMIT MALFUNCTIONS TO EITHER THE MS OR IOP. REQUIRED EQUIPMENT: -ONE SIGMA 5/7 WITH 8K OF CORE MINIMUM -ONE CARD READER OR MAG TAPE STATION AS A PROGRAM INPUT DEVICE -ONE KEYBOARD PRINTER AS AN OUTPUT DEVICE -ONE MAINTENANCE SUBCONTROLLER. THIS PROGRAM ASSUMES A WORKING CPU AND THAT THE PROGRAM CAN BE LOADED.
- 705867 SIGMA 5/7 ARGONNE LO-LEVEL ANALOG INPUT DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION AND ACCURACY OF THE ARGONNE NATIONAL LABORATORIES LO-LEVEL ANALOG INPUT SUBSYSTEM.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 WITH 8K OF CORE, KEYBOARD-PRINTER, CARD READER, CDS1 CONTROLLER-DIGITIZER, ADS-10 ANALOG INPUT CONTROLLER, THREE DM-40 LOW LEVEL MULTIPLEXERS, MODIFIED 7969 FREQUENCY CONTROL SUBSYSTEM AND SPECIAL OVERRANGE INTERRUPT HARDWARE. PRIORITY INTERRUPT NO. 68 IS ALSO REQUIRED. TEST EQUIPMENT: PRECISION VOLTAGE SOURCE. OPTIONAL EQUIPMENT: 7450 LINE PRINTER
- 705868 SIGMA 5/7 ARGONNE HI-LEVEL ANALOG INPUT DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF CHECKING THE OPERATION AND ACCURACY OF THE ARGONNE NATIONAL LABORATORIES' HI-LEVEL ANALOG INPUT SUBSYSTEM.
COMMENTS:
REQUIRED EQUIPMENT: SIGMA 5/7 WITH 8K OF CORE, KEYBOARD-PRINTER, CARD READER, DM1 MULTIPLEXER-DIGITIZER, 7915 ANALOG INPUT CONTROLLER, MODIFIED 7969 FREQUENCY CONTROL SUBSYSTEM, 5950 SAMPLE AND HOLD UNIT AND SPECIAL OVERRANGE INTERRUPT HARDWARE. PRIORITY INTERRUPT NO. 67 IS ALSO REQUIRED. TEST EQUIPMENT: PRECISION VOLTAGE SOURCE. OPTIONAL EQUIPMENT: 7450 LINE PRINTER.
- 706173 SIGMA 5/7 7902 EDSC DIAGNOSTIC
AUTHOR: XEROX, DATA SYSTEMS DIVISION
ABSTRACT:
THE PROGRAM PROVIDES A MEANS FOR FINAL ACCEPTANCE TESTING OF THE 7902 EXTENDED DEVICE SUBCONTROLLER. TESTS CONSIST OF EXECUTING THE I/O INSTRUCTIONS (SIO, TIO, TDV, AIO, MIO) AND LISTING ALL RESULTANT STATUS INFORMATION. LOOPING CAPABILITY IS PROVIDED TO ALLOW FOR MONITORING OF SIGNALS BY THE TEST ENGINEER.
COMMENTS:
MINIMUM HARDWARE CONFIGURATION IS AN 8K SIGMA 5/7, 7902 EDSC, TELETYPE, AND A CARD READER OR PAPER TAPE READER. A LINE PRINTER IS OPTIONAL. PROGRAM RUNS UNDER THE DIAGNOSTIC PROGRAM MONITOR (DPM).
- 706203 SIGMA 5-9 RADIATION PCM TEST
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF TESTING A RADIATION PCM SUBSYSTEM INTERFACE BUILT FOR SMD 78002 USING AN OSO FORMAT. A PATTERN IS GENERATED OUT VIA TMS-51 AND TESTED AGAINST THE RADIATION INTERFACE INPUT UNDER SENSE SWITCH CONTROL.
COMMENTS:
THIS PROGRAM REQUIRES A CARD READER, LINE PRINTER, TTY AND 18K CORE. REASSEMBLY MAY BE ACCOMPLISHED USING METASYMBOL (SOCH OPTION).
- 706204 SIGMA 5-9 OSO PCM TEST
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
THIS PROGRAM TESTS AN XDS PCM FRONT END (SMD-78002) USING THE OSO FORMAT. THE PROGRAM GENERATES AN OSO FORMAT TEST PATTERN VIA TMS-51 SIMULATOR AND TESTS THIS AGAINST DATA INPUT FROM THE TELEMETRY FRONT END UNDER SENSE SWITCH CONTROL. THIS PROGRAM IS A SPECIAL TEST USED IN ADDITION TO THE CART-3 DIAGNOSTIC.
COMMENTS:
THE PROGRAM REQUIRES CARD READER, LINE PRINTER, TTY, AND 24K CORE. REASSEMBLY UNDER METASYMBOL USING THE -44 COMPRESSED SOURCE AND THE -44 COMPRESSED SOURCE FOR CART-3; THEN LOAD USING THE SIGMA 5/7 STAND-ALONE RELOCATABLE OR DUMP LOADER.

PROGRAM AVAILABILITY LIST

SIGMA 5-9/550/560 CLASS B3
DIAGNOSTIC SUMMARIES

- 706205 SIGMA 5-9 CART-3 CHECK-OUT AID READINESS
AUTHOR: XDS, DATA SYSTEMS DIVISION
ABSTRACT:
CART-3 IS A VERSION OF CART (705688) WHICH SUPPORTS AN XDS PCM TELEMETRY SUBSYSTEM BUILT UNDER SMO 78002.
COMMENTS:
THIS PROGRAM REQUIRES CARD READER, LINE PRINTER, TELETYPE AND 24K CORE. IT MAY BE REASSEMBLED USING METASYMBOL AND LOADED USING THE SIGMA 5/7 STAND-ALONE RELOCATABLE OR DUMP LOADER.
- 706230 SIGMA 5/7 DMS 12 DIAGNOSTIC PROGRAM
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF TESTING, ADJUSTING AND DEMONSTRATING THE THREE CONTROLLERS IN THE DMS 12. IT INCLUDES DAC OUTPUT, ADC INPUT, AND CLOSED LOOP TESTS. STATISTICAL ANALYSIS SUCH AS MEAN, STANDARD DEVIATION, HISTOGRAM ARE GIVEN TO AID THE USER TO DETERMINE HARDWARE ACCURACY. A B-MODE TEST IS INCLUDED TO TEST THE MODIFIED MODES.
COMMENTS:
THE PROGRAM IS ASSEMBLED INTO THE SIGMA 5/7 DIAGNOSTIC CONTROL PROGRAM (DCP). HARDWARE REQUIREMENTS: SIGMA 5/7 WITH 24K OF CORE, TELETYPE, CARD READER OR PAPER TAPE READER, DMS12, AND INTERFACE EQUIPMENTS.
- 706234 SIGMA 5-9 ARDS DISPLAY TEST
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM TESTS AN ARDS DISPLAY CONNECTED TO A SIGMA 5-9 THRU A SPECIAL COUPLER. THE PROGRAM OUTPUTS ALPHANUMERIC AND PLOT PATTERNS AND PERFORMS AN INPUT ECHO TEST UNDER SENSE SWITCH CONTROL.
COMMENTS:
THIS PROGRAM IS ASSEMBLED BY METASYMBOL AND EXECUTES IN A MINIMAL SIGMA 5 WITH CARD INPUT. THE ARDS DISPLAY INTERFACE IS A SPECIAL WESTERN TECHNOLOGY CENTER DESIGN (SMO 78002) USING IOP OUTPUT AND INTERRUPT DRIVEN DIO INPUT FROM THE KEYBOARD. THE HIGH SPEED OPTION IS REQUIRED.
- 706235 SIGMA 5-9 TIME CODE TRANSLATOR TEST
AUTHOR: XDS, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM PROVIDES A CONTINUOUS TEST OF A TIME CODE TRANSLATOR/GENERATOR. THE PROGRAM OPERATES IN A MINIMAL SIGMA 5 WITH CARD READER AND LINE PRINTER.
COMMENTS:
TECHNIQUE- TIME INPUT IS FILTERED BY READING THE INPUT TWICE AND PASSING ONLY THOSE SAMPLES WHICH ARE ALIKE FOR TESTING. TEST SAMPLES MUST BE EQUAL OR INCREASING BY ONE MILLISECOND. ERRORS ARE RECORDED ON THE HIGH SPEED LINE PRINTER. TIME MAY RUN AT UP TO THREE TIMES REAL TIME. SOURCE LANGUAGE - METASYMBOL. TIME INTERPUT INTERFACE - PACKED BCD VIA DIO. INTERFACE DESIGN REFERENCE - SMO 78002.
- 706438 SIGMA 5 VARIAN MULTISTYLUS DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE VARIAN MULTISTYLUS DIAGNOSTIC CHECKS THE OPERATION OF THE STATUS MODEL 514 DIGITAL PRINTER/PLOTTER BY OUTPUTTING TEST PATTERNS TO THE PLOTTER FROM PRE-GENERATED CODE IMAGES VIA AN MIOP. THE TEST PATTERN DESIRED IS OPERATOR SELECTABLE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. PROGRAM OPERATES UNDER DPM, CATALOG NO. 705682-D00, AND IS DESIGNED FOR PANAVIA TELEMETRY FRONT END.
- 706439 SIGMA 5/7 PANAVIA DIAGNOSTIC UTILITY
AUTHOR: XEROX
ABSTRACT:
THE PANAVIA DIAGNOSTIC UTILITY CHECKS THE OPERATION OF 1) TEKTRONIX GRAPHIC COMPUTER TERMINAL 4002 AND TEKTRONIX ENTER-ACTIVE GRAPHIC UNIT 4801. 2) 7930/7931 DIGITAL INPUT/OUTPUT CONTROLLER AND ADAPTER THAT CONTROLS 3 AND 5 DIGIT + SIGN DISPLAYS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. THE PROGRAM IS DESIGNED TO OPERATE WITH THE PANAVIA TELEMETRY FRONT END AND THE SIGMA 5/7 DPM (CATALOG NO. 705682-D00).
- 706440 SIGMA 5/7 TAPE MOTION - TIME CONTROL DIAGNOSTIC
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE TAPE MOTION AND TIME CONTROL DIAGNOSTIC CHECKS THE TIME SIGNAL FLOW FROM AN ANALOG TAPE TO TIME CODE TRANSLATOR AND CHECKS FOR CORRECT TAPE CONTROL AND MOTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL. THE PROGRAM IS DESIGNED TO RUN UNDER THE SIGMA 5/7 DPM (CATALOG NO. 705682-D00) AND A PARTICULAR HARDWARE CONFIGURATION SUCH AS INSTALLED IN THE PANAVIA SYSTEM.

706441 SIGMA 5/7 PANAVIA CART

AUTHOR: XEROX CORPORATION

ABSTRACT:

CART IS A STANDALONE PROGRAM DESIGNED TO PERFORM A VARIETY OF DIRECT I/O INSTRUCTIONS TO VERIFY D10 OPERATION OF THE FRONT END AND TO PERFORM SYSTEM TEST USING THE TMS50 PCH SIMULATOR AND THE PANAVIA FRONT END.

COMMENTS:

THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
ASB DECKS MUST BE GENERATED FROM THE 5 CART BINARY DECKS (SEE PROGRAM DESCRIPTION).

706442 SIGMA 5/7 PANAVIA TMS09A DIAGNOSTIC

AUTHOR: XEROX CORPORATION

ABSTRACT:

THE PANAVIA TMS09A ANALOG SUBSYSTEM CALIBRATION PROGRAM PERFORMS FM SYSTEM VALIDITY TESTING OF THE TMS-09A AND ITS ASSOCIATED ANALOG INSTRUMENTS.

COMMENTS:

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL AND DPM.
PROGRAM OPERATES UNDER DPM, CATALOG NO. 705682-000, AND IS DESIGNED FOR USE WITH THE PANAVIA FRONT END.

706469 SIGMA 5-9 7907 DIAGNOSTIC PROGRAM

AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS IS A KEYBOARD INTERACTIVE PROGRAM THAT RUNS UNDER CONTROL OF THE DIAGNOSTIC PROGRAM MONITOR. THE COMPUTER CONNECTED TO THE OTHER END OF THE 7907 CABLES MUST RUN A COMPATIBLE PROGRAM. THIS PROGRAM IS PAL # 880607 FOR A SCU.

COMMENTS:

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

706471 SIGMA 5-9 2230/2470 LINE PRINTER DIAGNOSTIC

AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS TEST PROGRAM PROVIDES THE CAPABILITY TO DETECT SOLID LOGIC FAILURES AND TO ISOLATE THE FAILURES TO THE SMALLEST POSSIBLE LOGIC SEGMENT IN THE LINE PRINTER (DATA PRODUCTS 2230 OR 2470 WITH SYSTEMS CONTROLLER). THE RANDOM EXERCISER AND SOME UTILITY TEST FUNCTIONS ARE INCLUDED IN THE TEST PROGRAM. THE TEST PROGRAM IS INTERFACED TO THE DIAGNOSTIC PROGRAM MONITOR. THE -84 AS RELEASED INCLUDES THE DPM AND ITS LOADER.

COMMENTS:

THIS PROGRAM WILL RUN UNDER DPM OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL. SIGMA 5-9 WITH 16K OF CORE MEMORY PROGRAM INPUT DEVICE: CARD READER; PAPER TAPE READER; MAGNETIC TAPE UNIT. MESSAGE OUTPUT DEVICE: KSR; LINE PRINTER. LINE PRINTER TO BE TESTED. LOADING PROCEDURE IS IN MANUAL 901649.

706489 SIGMA 6/7/9 SCU LINKING LOADER

AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS PROGRAM TAKES SPECIFIED OBJECT MODULE FILES AND COMBINES THEM INTO A SINGLE LOAD MODULE. THE LOAD MODULE IS A FILE THAT CAN BE LOADED INTO THE SCU CONTROL AND/OR MAIN MEMORY. THIS PROGRAM INCLUDES THE CAPABILITY TO LOAD THE SCU OVER A 7907 COMMUNICATIONS LINK IF THE UTS MONITOR HAS GRAPHICS ACCESS METHOD HANDLER INSTALLED. PATCHES TO THE SCU MEMORIES CAN ALSO BE PERFORMED.

COMMENTS:

THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
CURRENT VERSION CAN HANDLE ONLY ABSOLUTE SECTIONS, NO RELOCATABLE OBJECT CODE OR REF/DEF LINKAGE.
BUILDING LOAD MODULE FILE DOES NOT REQUIRE A SCU TO BE PRESENT. RECORDS OF FILE ARE 108 BYTES LONG TO PERMIT ANY TRANSMISSION MEDIUM TO BE USED (CARDS, PAPER TAPE). A UTS CONFIGURATION IS REQUIRED.

706499 SIGMA 6-9 GENERATE PAPER TAPE UTILITY

AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THE PAPER TAPE GENERATING UTILITY IS A PROGRAM WHICH GENERATES PAPER TAPE WITH NO RECORD GAPS VIA A TTY TERMINAL PUNCH ON THE CP-V TIMESHARING SYSTEM.

COMMENTS:

THIS PROGRAM WILL RUN UNDER CP-V OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS PROGRAM WORKS ON FILES THAT ARE EITHER 108 OR 120 BYTES ONLY.

880626 SIGMA 5-9 SCU ASSEMBLER LIBRARY ROUTINES

AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THE SYSTEM CONTROL UNIT ASSEMBLER LIBRARY ROUTINES ARE THOSE PROCEDURES THAT HAVE BEEN USED BY HTC PROGRAMMING AND OTHERS TO AUGMENT THE SCU ASSEMBLER PROCEDURES.

COMMENTS:

THIS PROGRAM WILL RUN UNDER BPH/BTH, RBH, CP-V, RBMX, AND CP-R OPERATING SYSTEMS. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

THERE IS NO ORDER GUIDE AVAILABLE
FOR 9 SERIES PRODUCTS

PROGRAM AVAILABILITY LIST				9-SERIES KWIC INDEX			
KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
'8 VECTOR'	PLOTTING PACKAGE...PLOT	890330	B3	ASSEMBLY PROGRAM FOR 2K-910...	COMPUTER	890244	B3
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ACSDX,ASNDC,ACSDX...	ARCSINE,ARCCOSINE-ASN,ACSX,ASNDC,	860677	B3	ATN...ARCTAN OF A -		860620	B3
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ADAMS-MOULTON	DIFFERENTIAL EQUATIONS...	860615	B3	ATNRX,ATNDX...9300 ARCTANGENT		860671	B3
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AID)...	UTILITY AND DEBUG PACKAGE (860611	B3	B>SORT-BUSINESS LANGUAGE SORT ROUTINE...		890305	B3
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ALGOL	60 BASIC 4K SYSTEM...910/925	850816	B3	BASIC RELOCATABLE LOADER...9300 PAPER TAPE		860605	B3
ALGOL	60 EXT'D UNBUF LINE PRT. LIB ROUT...	850690	B3	BASIC SYMBOLIC MAGNETIC TAPE EDITOR...		850663	B3
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AMERICAN	HYBRID INTERFACE TEST...NORTH	860797	B3	BASIC 2 CARD RELOCATABLE LOADER...		860720	B3
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ANALOG	TEST PROGRAM...910/925 STANDARD	850901	B3	BESSEL FUNCTION SUBROUTINE...		890178	B3
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ANALYSIS	CIRC DC...CIRCUIT DESIGN	890283	B3	BIN TO DEC POP-SELF F...HIGH SPEED 4 DIOIT		850803	B3
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ANALYSIS...	LINEAR REGRESSION	890217	B3	BIT HANDLING & I/O...FORTRAN EXTENDER LIB.		890310	B3
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ARCSINE,ARCCOSINE	(DEGREES-RADIANS)...	860676	B3	BOOTSTRAP LOADER...BINARY PAPER TAPE		851181	B3
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ARCTAN OF A - ATN...		860620	B3	BOOTSTRAP...SELECTIVE MEMORY CLEAR -		850625	B3
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ARCTANGENT - ATFC...FLOATING POINT COMPLEX		860634	B3	BOX...MUSIC		890307	B3
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ASNDC,ACSDX...	ARCSINE,ARCCOSINE-ASN,ACSX,ASNDC,ACSDX...	860677	B3	BUFFERED		860754	B3
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ASSEMBLER	COMMON SOFTWARE PACKAGE...SYMBOL	850040	B3	BUFFERED LINE PRINTER TRACE...		851012	B3
ASSEMBLER...	CONVERSATIONAL FUNCTIONAL	890528	B3	BUFFERED LINE PRINTR...CARD OR MAG TAPE TO		850684	B3
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REGISTER TESTER...925 P-AND-S		851103	83	SERIES CARD READER TEST PROGRAM...900		850658	83
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REGRESSION...MULTIPLE LINEAR		890208	83	SERIES MAG TAPE DIAGNOSTICS...9-		890898	83
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PROGRAM AVAILABILITY LIST

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PROGRAM AVAILABILITY LIST

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3.0...	UNIT 21 W CHANNEL DISC TEST	870038	B3	9158	CARD PUNCH TEST PROGRAM...	850681	B3
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- 850000 900-SERIES MONARCH COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
ROUTINES THAT PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
REQUIRING OPERATOR INTERVENTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 850001 THRU 850011, 850013 THRU 850023, 850031 THRU 850033, 850669,
851012, 851290 THRU 851298
- 850001 9-SERIES MONARCH TAPE LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH TAPE SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL
- 850004 9-SERIES MONARCH RAD LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH RAD SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 850022 9-SERIES PURGE FOR RAD MONARCH
AUTHOR: XEROX DATA SYSTEMS
ABSTRACT:
THIS ROUTINE IS ON RAD MONARCH SYSGEN TAPE. IT IS USED TO REMOVE USER-ADDED LABELS FROM THE FILE
DIRECTORY, AT USERS DISCRETION.
COMMENTS:
- 850023 900-SERIES BOOTSTRAP GENERATOR FOR RAD MONARCH
AUTHOR: XEROX
ABSTRACT:
PUNCHES A BOOTSTRAP FOR RAD MONARCH (WITH CURRENT POINTERS) ON PAPERTAPE OR CARDS. USE OUTPUT TO RELOAD
SYSTEM.
- 850035 910 910/925 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
IATED LIBRARIES.
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF CORE STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES.
- 850036 9-SERIES 925 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
A SYSTEM TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND
R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE MAG TAPE, AND A 9367 DISC FILE
- 850037 9-SERIES 920/930 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
IATED LIBRARIES.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAGNETIC TAPES.
- 850038 9-SERIES 930 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORT-II
PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND A 9367 DISC FILE.

850040 900-SERIES SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO ASSEMBLE SOURCE PROGRAMS WRITTEN IN THE SYMBOL ASSEMBLY LANGUAGE.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS: 850041 THRU 850059.

850065 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTWARE PKG
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE IS THE COVER FOR THE 900-SERIES META-SYMBOL ASSEMBLER. THE SYSTEM IS ONLY AVAILABLE UNDER MONARCH.
COMMENTS:
RELOCATABLE BINARY ON MONARCH SYSTEM TAPES: 850035-85 850036-85, 850037-85, 850038-85. THIS PROGRAM INCLUDES CATALOG NUMBERS 850066 THRU 850090, 851262 THRU 851270, AND 851273 THRU 851281

850090 9-SERIES META-SYMBOL PROC93CP
AUTHOR: XEROX
ABSTRACT:
CONVERTS 900 CODE TO 9300 CODE

850095 900-SERIES MONARCH LIBRARY COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS THOSE ROUTINES COMMON TO ALL 900 SERIES MONARCH SYSTEMS.
COMMENTS:
900 SERIES RELOCATABLE BINARY ON MONARCH SYSTEM TAPES. THIS PROGRAM COVERS CATALOG NUMBERS 850101 THRU 850160, 850171 THRU 850202, 850204, 850642, 850647 PART OF CATALOG NO. 850095, MONARCH LIBRARY COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY AVAILABLE AS PART OF 850035-85 FOR TAPE MONARCH AND 850038-85 FOR RAD MONARCH.

850181 910 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, WHICH CONSISTS OF THE FOLLOWING PROGRAMS SCHEDULE SPECTRUM PROGRAM (SSP), DETAIL SCHEDULE REPORT PROGRAM (DSRP) PROGRESS EVALUATION PROGRAM (PEP) PROGRESS EVALUATION SORT PROGRAM (PEPSORT) RESOURCE ALLOCATION PROGRAM (RAP) BARCHART
COMMENTS:
COMPUTER CONFIGURATION: 910/925 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND A BUFFERED PRINTER. THIS PROGRAM COVERS CATALOG NUMBERS 850162 THRU 850167, 850362 THRU 850368 TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850210 910/925 FORTRAN II COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
THE FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.
COMMENTS:
SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR RAD MONARCH. RELOCATABLE BINARY AVAILABLE ON 850808-85 FOR STAND-ALONE (S/A) THIS PROGRAM COVERS CATALOG NUMBERS 850211, 850212, 850215 THRU 850251, 850256 THRU 850277, 850279 THRU 850294, 851138 THRU 851141, 851282, 851283

850211 9-SERIES 910/925 F-II COMPILER (FC-1)
AUTHOR: XEROX
ABSTRACT:
THE FORTRAN II COMPILER IS A ONE-PASS ROUTINE; THAT IS IT READS THE SOURCE PROGRAM ONLY ONCE AND SIMULTANEOUSLY GENERATES THE OBJECT PROGRAM IN A FORM ACCEPTABLE TO THE FORTRAN LOADER.

850315 9-SERIES 920/930 FORTRAN-II COMMON SOFTWARE PKG.
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS 920/930 FORTRAN II COMPILER, AND LOADER ROUTINES SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS COVER NUMBER INCLUDES CATALOG NUMBERS 850212, 850316, 850318 THRU 850322, 850325 THRU 850329, 850558 THRU 850623, 851140, 851125, 851126, 851141, 851284, 851285

850330 9-SERIES ALGOL COMMON SOFTWARE PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THE 900 SERIES ALGOL 60-8 SYSTEM IS A COMPLETE SYSTEM FOR COMPILING, LOADING, AND EXECUTING ALGOL 60-8

850330 CONTINUED ON FOLLOWING PAGE

- 850330 ALGOL COMMON SOFTWARE PACKAGE (COVER) (CONTINUED)
PROGRAMS.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.S: 850818 THRU 850823, 850825, 850826, 850827, 850844 THRU 850846, 850972 THRU 850977, 850979 THRU 850981, 851000 THRU 851002, 850331, 850332, 850335 THRU 850355, 850360, 850361, 850370 THRU 850372.
- 850362 920 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900S WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OF PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE
- 850400 910 REAL-TIME FORTRAN COMMON SOFTWARE PKG
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850401, 850403 THRU 850406, 850408 THRU 850476, 850478, 851286, 851287
- 850480 9-SERIES 920/930 R/T FORTRAN COMMON SOFTWARE PKG.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE BATCH PROCESSING CAPABILITY FOR REAL-TIME FORTRAN II UNDER MONARCH. FOR ABSTRACTS, SEE COMPARABLE ROUTINES IN EITHER 910/925 FORTRAN II OR 910/925 R.T. FORTRAN II.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850481 THRU 850483, 850485 THRU 850557, 851288, 851289
- 850624 9-SERIES ZERO MEMORY
AUTHOR: XEROX
ABSTRACT:
TO SET ALL OF MEMORY EXCEPT WORD 0007 TO 000000.
COMMENTS:
SIZE: 8 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.
- 850625 9-SERIES SELECTIVE MEMORY CLEAR - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO AID THE USER IN CLEARING SELECTED PORTIONS OF MEMORY, BY SELECTIVELY CLEARING MEMORY, THE ROUTINE SAVES PROGRAMS WHICH THE USER MAY WANT TO USE AGAIN.
COMMENTS:
SIZE: 22 DECIMAL. CONFIGURATION: ALL 910 AND 920
- 850626 9-SERIES PAPER TAPE REPRODUCER PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO REPRODUCE BINARY PAPER TAPE. ONLY THOSE TAPES WHICH HAVE AN INTEGRAL MULTIPLE OF FOUR CHARACTERS PER BLOCK CAN BE PRODUCED BY THIS PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 355 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH PUNCH, READER AND TYPEWRITER.
- 850627 9-SERIES BINARY VERIFY - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE METHOD OF ASCERTAINING THE VALIDITY OF INFORMATION LOADED INTO MEMORY FROM TAPE OR OF INFORMATION PUNCHED ON TAPE. THE ROUTINE WILL VERIFY ANY ABSOLUTE BINARY TAPE WHICH HAS A STARTING ADDRESS IN BITS 10-23 OF THE SECOND CONTROL WORD OF EACH BLOCK.
COMMENTS:
SIZE 30 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.
- 850628 9-SERIES MEMORY TYPE-OUT, REDUNDANCY ELIMINATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TYPES SPECIFIED SECTIONS OF MEMORY, FOUR WORDS PER LINE, IN EITHER OCTAL OR INSTRUCTION FORMAT. BIT PATTERNS WHICH REPEAT ARE INDICATED, RATHER THAN REDUNDANTLY TYPED.
COMMENTS:
SIZE 129 DECIMAL. CONFIGURATION: 910 OR 920 COMPUTER WITH TYPEWRITER.

- 850629 9-SERIES DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN DEBUGGING. FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE ARE 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE 477 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 COMPUTER.
- 850634 9-SERIES BINARY PAPER TAPE BOOTSTRAP + GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON PAPER TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/ META-SYMBOL. SIZE 55 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY AND PAPER TAPE PUNCH.
- 850637 9-SERIES BINARY PAPER TAPE LIST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A METHOD OF LISTING A BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE 140 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS MODEL 9173 LINE PRINTER OR TYPEWRITER.
- 850638 9-SERIES FORTRAN II MEMORY SAVE
AUTHOR: XEROX
ABSTRACT:
TO PUNCH A SELF-LOADING PAPER TAPE REPRESENTING THE FORTRAN PROGRAM WHICH IS IN CORE AND OPTIONALLY TO PUNCH ANY OF THE FOLLOWING: 1. THE FORTRAN VARIABLES 2. COMMON 3. RUN-TIME .
COMMENTS:
SOURCE LANGUAGE: SYMBOL-8. SIZE 355 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER, PAPER TAPE PUNCH, AND CONSOLE TYPEWRITER. CARD READER OPTIONAL.
- 850641 9-SERIES FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY FORTRAN SOURCE CARD IMAGES (COLUMNS 1-72, OR LESS) ONTO PAPER TAPE AND CONVERT ALL CARD BLANKS (60) TO SPACES (12).
COMMENTS:
SIZE 70 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER AND PAPER TAPE PUNCH.
- 850642 900-SERIES MEDIA CONVERSION ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY VARIABLE LENGTH RECORDS ON BINARY OR BCD CARDS, PAPER OR MAGNETIC TAPE, OR TYPED INPUT, TO CARDS, PAPER OR MAGNETIC TAPE, TYPEWRITER OR LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1181 DECIMAL. CONFIGURATION: ANY 4K XDS 910, 920, 925 OR 930 WITH ONE OR MORE PERIPHERAL DEVICES ATTACHED TO ANY OR CHANNEL AND A CONSOLE TYPEWRITER ON THE W BUFFER. BINARY IS ALSO AVAILABLE ON MONARCH SYSTEM TAPES. THIS PROGRAM IS PART OF CATALOG NO. 850095.
PROGRAM IS PART OF CATALOG
- 850643 9-SERIES BINARY DUMP, PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT OR PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 252 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE AND/OR CARD I/O.
- 850644 9-SERIES BINARY INPUT-BASIC PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE OBJECT PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL ON PAPER TAPE, AND TO LOAD THE 'STANDARD CONSTANTS.'
COMMENTS:
SIZE 79 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER.

- 850645 9-SERIES UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE 664 DECIMAL. ASSEMBLY LANGUAGE USED: SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.
- 850646 9-SERIES XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR
AUTHOR: XEROX
ABSTRACT:
TO TRANSLATE XDS 92 BINARY OBJECT PROGRAMS PRODUCED BY META-SYMBOL FROM THE STANDARD XDS 900 SERIES BINARY OBJECT LANGUAGE INTO THE STANDARD XDS 92 BINARY OBJECT PROGRAM LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 622 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER OR CARD READER, PAPER TAPE PUNCH OR CARD PUNCH.
- 850647 900-SERIES ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON)
AUTHOR: XEROX
ABSTRACT:
TO RECONSTRUCT FROM AN ENCODED REPRESENTATION OF A PROGRAM ON PAPER TAPE, CARDS OR MAGNETIC TAPE A SYMBOLIC REPRESENTATION OF THE PROGRAM ON CARDS, PAPER TAPE OR MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1019 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 4K WORDS OF MEMORY AND A CARD READER, OR PAPER TAPE READER, OR MAGNETIC TAPE UNIT AND CARD PUNCH OR PAPER TAPE PUNCH OR MAGNETIC TAPE UNIT. BINARY ALSO AVAILABLE ON MONARCH SYSTEM TAPES.
- 850648 9-SERIES BINARY INPUT ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.
- 850649 9-SERIES BINARY INPUT-TWO CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON PUNCHED CARDS.
COMMENTS:
SIZE 78 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER.
- 850650 9-SERIES ABSOLUTE BINARY LOADER WITH CONSTANTS
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 63 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.
- 850651 9-SERIES CARD FILL SIMULATOR (910/920)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE USERS OF THE XDS 910/920 SERIES COMPUTERS WITH A PAPER TAPE ROUTINE THAT SIMULATES THE CARD FILL SWITCH ON THE XDS 925/930 SERIES COMPUTERS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 12 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER AND A BINARY CARD READER.
- 850652 9-SERIES THREE CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER IN XDS STANDARD BINARY PUNCHED CARD FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 135 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARDS READER.

- 850653 9-SERIES OCTAL INPUT-ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE 32 DECIMAL. ANY XDS 900 SERIES COMPUTER.
- 850662 9-SERIES 900 SERIES FORTRAN II COMPILER DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF DUMPING THE FORTRAN II COMPILER, PRECEDED BY AN ABSOLUTE BINARY LOADER, EITHER ON PAPER TAPE OR CARDS. THIS ALLOWS THE USER TO GENERATE AN EXTENDED COMPILER INCORPORATING ANY OF THE AVAILABLE COMPILER MODIFICATIONS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:391 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE PUNCH OR CARD PUNCH.
- 850663 9-SERIES BASIC SYMBOLIC MAGNETIC TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND UPDATE MAGNETIC TAPES CONTAINING VARIABLE LENGTH RECORDS (1-33 WORDS) OF BCD INFORMATION.
COMMENTS:
SOURCE LANGUAGE: FORTRAN, SYMBOL. SIZE:8000 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, AND TWO MAGNETIC TAPES. A CARD READER IS DESIRABLE.
- 850664 9-SERIES PAPER TAPE AND MAGNETIC TAPE COPIER
AUTHOR: XEROX
ABSTRACT:
TO COPY PAPER TAPE TO MAGNETIC TAPE AND MAGNETIC TAPE TO PAPER TAPE.
COMMENTS:
SIZE 347 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 4K MEMORY AND ONE MAGNETIC TAPE UNIT.
- 850666 9-SERIES MAG TAPE STANDARD FILL SIMULATOR(910/920)
AUTHOR: XEROX
ABSTRACT:
TO LOAD PROGRAMS FROM MAGNETIC TAPE 0 VIA THE STANDARD FILL PROCEDURE.
COMMENTS:
SIZE 20 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH ONE MAGNETIC TAPE UNIT (SET TO ZERO).
- 850667 9-SERIES BINARY INPUT-MAGNETIC TAPE ABSOLUTE LDR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON LOW DENSITY MAGNETIC TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:38 DECIMAL. ANY XDS 900 SERIES COMPUTER WITH MAGNETIC TAPE.
- 850669 9-SERIES MONARCH - LIBPACK
AUTHOR: XEROX DATA SYSTEMS
ABSTRACT:
TO PROVIDE A GENERALIZED GET/PUT PROGRAM DESIGNED TO CREATE BLOCKED LIBRARY MAG TAPES WRITTEN BCD OR BINARY (ENCODED) TO FACILITATE TAPE STORAGE. THE PROGRAM ALSO PROVIDES THE ABILITY TO RECREATE HARD COPY, PRINTED LISTS AND GENERATE MULTIPLE MASTER COPIES FOR BACK UP AND GENERAL DISTRIBUTION.
COMMENTS:
THIS PROGRAM IS PART OF 850000. MONARCH COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY ARE PART OF THE APPROPRIATE SYSTEM TAPE.
- 850677 9-SERIES 92 PROCEDURE DECK
AUTHOR: XEROX
ABSTRACT:
META-SYMBOL WITH THIS PROC DECK SERVES AS IN INTERIM ASSEMBLER IN PLACE OF 92 SYMBOL.
COMMENTS:
PROGRAMS ASSEMBLED WITH THIS PROC DECK SHOULD BE PRECEDED BY AORG N, N> 32. THE FOLLOWING SHOULD NOT BE USED: TEXT, BCE, REG, REF, DEF, OPD, LOCAL SYMBOLS. SOURCE LANGUAGE: META-SYMBOL.
- 850678 9-SERIES DEMONSTRATION OF LINKING UNDER MONARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE - COMPILING OF THREE LINKS, WRITING THE LINKS ON THE LINKING TAPE AND EXECUTING THE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. CONFIGURATION: 900 SERIES WITH AT LEAST TWO MAGNETIC TAPES AND CARD READER.

- 850680 9-SERIES FORTRAN II RUN-TIME DEBUG SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO EXAMINE THE VALUES OF VARIABLES DURING THE EXECUTION OF A FORTRAN PROGRAM AND TO CHANGE THESE VALUES CONVENIENTLY.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:319 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH TYPEWRITER.
- 850683 9-SERIES BUFFERED LINE PRINTER MEMORY DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING THE CONTENTS OF MEMORY VIA THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 248 DECIMAL. CONFIGURATION:ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER.
- 850684 9-SERIES CARD OR MAG TAPE TO BUFFERED LINE PRINTR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING CARD IMAGES FROM EITHER A CARD READER OR A MAGNETIC TAPE UNIT WITH OR WITHOUT FORMAT CONTROL ON THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 806 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER AND EITHER AN XDS MODEL 9151 CARD READER OR XDS MODEL (9145 OR 9240) MAGNETIC TAPE UNIT.
- 850686 9-SERIES FORTRAN FREE INTERRUPTS SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO USE LOCATIONS 200-247 FOR INTERRUPTS DURING THE EXECUTION OF A FORTRAN OBJECT PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:136 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER.
- 850687 9-SERIES SEQ. NUMBER ASOINT.+P.T.UPDATING ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SOURCE STATEMENT WITH SEQUENCE NUMBERS TO FACILITATE USE OF THE UPDATING PORTIONS OF THE PROGRAM AND TO PUNCH AN UPDATED VERSION OF THE SOURCE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 4009 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY, PAPER TAPE I/O AND TYPEWRITER.
- 850688 9-SERIES UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINE AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:2584 DECIMAL. CONFIGURATION: ANY 900 SERIES XDS COMPUTER WITH A CONSOLE TYPEWRITER.
- 850690 900-SERIES ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT.
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF UNBUFFERED LINE PRINTER IN ALGOL SYSTEM. THIS LIBRARY PROGRAM IS LOADED WHEN OUTPUT TO THE LINE PRINTER IS CALLED FOR IN AN ALGOL PROGRAM.OUTPUT TO THE LINE PRINTER IS
COMMENTS:
SOURCE LANGUAGE:METASYMBOL COMPUTER CONFIGURATION:ANY XDS 900 SERIES COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).
- 850697 9-SERIES R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF THE UNBUFFERED LINE PRINTER WITH THE STANDARD REAL-TIME FORTRAN II LOADER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:3420 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 8K MEMORY AND AN UNBUFFERED LINE PRINTER (XDS MODEL NO. 9372).
- 850698 9-SERIES XDS FORTRAN DEMONSTRATION PROGRAM
AUTHOR: XEROX
ABSTRACT:
INVERTS A 10X10 MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. SIZE 4000 DECIMAL. CONFIGURATION: ANY XDS COMPUTER WITH A 4K OR GREATER MEMORY.

- 850701 9-SERIES PROGRAM CORRECTION TAPE GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO AUTOMATE MODIFICATION OF OBJECT PROGRAMS.
COMMENTS:
SIZE:447 DECIMAL. CONFIGURATION: ANY XDS 920 OR XDS 910 WITH PAPER TAPE PUNCH AND TYPEWRITER.
- 850704 9-SERIES DRUM, P.T. MEMORY BINARY COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY BINARY INFORMATION FROM MEMORY OR PAPER TAPE TO DRUM AND FROM DRUM TO PAPER TAPE.
COMMENTS:
SIZE:802 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 2K MEMORY AND A DRUM.
- 850705 9-SERIES GENERAL DRUM HANDLER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERAL METHOD OF WRITING AND READING FROM THE DRUM.
COMMENTS:
SIZE:309 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH A XDS MAGNETIC DRUM MEMORY (MODEL 9101).
- 850706 9-SERIES MOSELEY PLOTTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PLOTS AN X-SHAPED CONFIGURATION OF POINTS TO TEST A PLOTTER
COMMENTS:
SIZE: 265 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH MOSELEY PLOTTER.
- 850707 9-SERIES LINK 0 BOOTSTRAP FOR DRUM
AUTHOR: XEROX
ABSTRACT:
TO LOAD LINK 0 FROM DRUM TO MEMORY
COMMENTS:
14 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 14K MEMORY AND A DRUM.
- 850708 9-SERIES FORTRAN II TYPE SUBR. (LONG CARRIAGE)
AUTHOR: XEROX
ABSTRACT:
TO REPLACE THE STANDARD TYPE SUBROUTINE AND TAKE ADVANTAGE OF THE LONG CARRIAGE (130 CHARACTERS)
TYPEWRITER9
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:59 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTERS WITH 4K MEMORY.
- 850710 9-SERIES GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS
AUTHOR: XEROX
ABSTRACT:
ITERATIVELY TESTS ONE OR TWO SETS OF ANALOG INPUTS FOR ERROR DISTRIBUTIONS.
COMMENTS:
DECIMAL 1024. CONFIGURATION: ANY 910/920 WITH ONE OR TWO ANALOG INPUT MULTIPLEX AND CONVERTERS.
- 850740 920 SEISMIC DUMP A AND B FORMATS
AUTHOR: XEROX
ABSTRACT:
XDS 920 SEISMIC TAPE DUMP PROGRAMS FOR 9 TRACK GAPPED OR GAPLESS TAPES WITH A OR B FORMAT. THE OUTPUT FROM THESE PROGRAMS IS UTILIZED FOR VERIFICATION OF SEISMIC DATA TAPES.
COMMENTS:
FOUR SEISMIC TAPE DUMP PROGRAMS ARE PROVIDED. ONE FOR EACH OF THE INPUT TAPE FORMATS; A FORMAT GAPPED AFORMAT GAPLESS BFORMAT GAPPED B FORMAT GAPLESS
- 850742 930 DEE-6D SIMULATOR SYSTEM HANDLERS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SOFTWARE INTERFACE TO THE SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDWARE.
- 850754 900-SERIES ADAPT COMPILER
AUTHOR: XEROX
ABSTRACT:
ADAPT IS A SYSTEM FOR THE COMPUTER-ASSISTED PROGRAMMING OF NUMERICALLY CONTROLLED MACHINE TOOLS, FLAME CUTTERS, DRAFTING MACHINES, AND SIMILAR EQUIPMENT. IT IS PRODUCTION ORIENTED, THAT IS, IT IS WRITTEN TO SIMPLIFY THE EFFORT, TIME, AND MONEY NEEDED TO TAKE FULL ADVANTAGE OF NUMERICALLY CONTROLLED TECHNIQUES

850754 CONTINUED ON FOLLOWING PAGE

- 850754 ADAPT COMPILER (CONTINUED)
IN ENGINEERING AND MANUFACTURING.
COMMENTS:
SOURCE LANGUAGE: FORTRAN II. CONFIGURATION: ANY XDS 900 SERIES COMPUTER. MONARCH OPERATING SYSTEM CONFIGURATION WITH AT LEAST 16K CORE MEMORY, 3 MAGNETIC TAPES A TYPEWRITER A CARD READER, A LINE PRINTER. (BUFFERED OR UNBUFFERED) AND AN 8-LEVEL PAPER TAPE PUNCH. (OR RAD MONARCH CONFIGURATION).
- 850765 910 910/925 PROGRAM OPERATOR PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900018. (910/925 PROGRAM OPERATOR TECHNICAL MANUAL)
COMMENTS:
SEE THE TECH MANUAL (900018) FOR THE COMPUTER CONFIGURATION.
- 850803 9-SERIES HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F
AUTHOR: XEROX
ABSTRACT:
PROVIDES A HIGH SPEED CONVERSION OF FIXED POINT FRACTIONAL BINARY NUMBERS TO BINARY CODED DECIMAL.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: XDS 910. THIS SUBROUTINES USES OPERATION 04430000 (RIGHT CYCLE ONE AND CLEAR A) WHICH IS NOT A STANDARD OPERATION.
- 850804 9-SERIES HIGH SPEED SIN-COS POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO SIMULTANEOUSLY COMPUTE BOTH THE SINE AND COSINE OF AN ANGLE WITH 19 BIT ACCURACY.
COMMENTS:
SIZE: 169 DECIMAL. CONFIGURATION: ANY XDS 910.
- 850805 9-SERIES HIGH SPEED ARCTANGENT POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN A/B TO 19 BIT ACCURACY. A AND B ARE NUMBERS IN THE A AND B REGISTER RESPECTIVELY.
COMMENTS:
SIZE: 162 DECIMAL. CONFIGURATION: ANY XDS 910.
- 850808 9-SERIES 910/925 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM INCLUDES THE FOLLOWING: TITLES: 910 FORTRAN II COMPILER PERFORATED TAPE INPUT, 910 FORTRAN II LIBRARY PERFORATED TAPE INPUT, 910 FORTRAN II RUN-TIME PERFORATED TAPE INPUT, AND FORTRAN II LOADER-PAPER TAPE VERSION.
COMMENTS:
SEE MANUAL 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL 900587, 900 SERIES FORTRAN II OPERATIONS MANUAL. SIZE:4096 DECIMAL.
- 850812 9-SERIES 910/925 FORTRAN II MOD. LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE 277 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850813 9-SERIES 910/925 FORTRAN II 3 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850814 9-SERIES 910/925 FORTRAN II 9 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE: 276 DECIMAL. CONFUGURATION: ANY XDS 910 COMPUTER-THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

- 850815 9-SERIES 910/925 F-11 HOLLERITH CONSTANT MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENTS.
COMMENTS:
SIZE: 62 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850816 9-SERIES 910/925 AL00L 60 BASIC 4K SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE AL00L PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: 910/925 COMPUTER WITH AT LEAST 4K MEMORY, TYPEWRITER AND PAPER TAPE I/O. SEE MANUAL NO. 900699.
- 850830 9-SERIES 910/925 R.T. FORTRAN II (S/A) SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. THE COMPILER, LOADER, AND RUN-TIME ARE ALL DISTRIBUTED ON A SINGLE ABSOLUTE BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL, META-SYMBOL. SIZE 8000 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AT LEAST 8000 WORDS OF MEMORY. SEE MANUALS 901048, 900003, AND 900587. THIS PROGRAM INCLUDES THE R.T. FORTRAN II COMPILER, LOADER AND RUN-TIME.
- 850831 9-SERIES XDS PINT 910-BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.
- 850832 9-SERIES XDS 910 PINT-UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.
- 850833 9-SERIES XDS 910/925 FORTRAN II FORMAT STATEMENTS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW HAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850835 9-SERIES 910/925 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE: 10 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850836 9-SERIES 910/925 FORTRAN II CARD PUNCH TAPE MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 71 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850837 9-SERIES 910/925 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 180 DECIMAL. CONFIGURATION: ANY 910/925 COMPUTER WITH CARD PUNCH. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

- 850841 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SIZE 371 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850842 9-SERIES 910/925 F-II M.T. PAPER TAPE OUTPUT MOD
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
ASSEMBLY LANGUAGE USED: SYMBOL 8. SIZE 442 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE UNIT. THIS MODIFICATION IS APPLICABLE ONLY TO THE STANDALONE FORTRAN II SYSTEM.
- 850848 9-SERIES 910/925 SORT MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 850849 (910/925 SORT) AND 850850 (910/925 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 910/925 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 90097 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.
- 850857 9-SERIES 910/925 FORTRAN II BUFFERED PRT. MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE:53 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850858 9-SERIES 910/925 FORTRAN II FAST LISTING MOD.
AUTHOR: XEROX
ABSTRACT:
TO IMPROVE THE SPEED WHEN LISTING FORTRAN SOURCE PROGRAMS DURING COMPILATION.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:4 DECIMAL. CONFIGURATION: ANY XDS 910/925 WITH A LINE PRINTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850859 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR.MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE 124 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850862 9-SERIES 910 FORTRAN DRUM LINKING SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE STANDARD 910 FORTRAN SYSTEM WITH THE DRUM LINKING CAPABILITY.
COMMENTS:
CONFIGURATION: ANY 910 COMPUTER WITH 4K OF MEMORY AND A DRUM (XDS 9181).
- 850864 9-SERIES FORTRAN II DRUM READ/WRITE MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE:33 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9181). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850914 9-SERIES LINEAR INTERPOLATION-1 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHTLINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 23 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

- 850915 9-SERIES LINEAR INTERPOLATION-2 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X, Y, F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 74 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.
- 850916 9-SERIES LINEAR INTERPOLATION-3 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y, Z F (X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 135 DECIMAL. SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 920/930.
- 850919 920 920/930 PROGRAMMED OPERATOR PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900020, (920/930 PROGRAM OPERATOR TECHNICAL MANUAL).
COMMENTS:
SEE THE TECH MANUAL (900020) FOR THE COMPUTER CONFIGURATION.
- 850957 9-SERIES 920/930 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE STAND-ALONE 920/930 FORTRAN-II PACKAGE CONSISTING OF COMPILER, LOADER AND RUN-TIME/LIBRARY
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 4096 DECIMAL. THIS PROGRAM COVERS 850958, 850959, 850960. SEE MANUALS 800587, 900 SERIES FORTRAN II OPERATIONS, 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND 901048, 900 SERIES FORTRAN II TECHNICAL MANUAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850963 9-SERIES FORTRAN II FORMATS-AT RUN-TIME MOD.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 39 DECIMAL. CONFIGURATION: ANY 920 /930 COMPUTER.
- 850964 9-SERIES FORTRAN-9 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE: 190 DECIMAL. ANY 920/930 COMPUTER.
- 850965 9-SERIES FORTRAN II MODIFICATION LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE: 277 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850966 9-SERIES FORTRAN-3 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
ANY 920/930 COMPUTER.
- 850967 9-SERIES FORTRAN HOLLERITH LITERALS MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENT.
COMMENTS:
SIZE: 50 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850968 9-SERIES GO MO KU
AUTHOR: XEROX
ABSTRACT:
GO MO KU IS A SELF-CONTAINED COMPUTER PROGRAM WHICH ENABLES THE COMPUTER TO PLAY GO MO KU (S IN A ROW).

850968 CONTINUED ON FOLLOWING PAGE

- 850968 GO MO KU (CONTINUED)
THE RULES OF THE GAME ARE BEST DESCRIBED BY COMPARING IT WITH TIC-TAC-TOE. IF TICTAC-TOE IS DEFINED AS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 3 IN A ROW ON A 3 BY 3 BOARD, THEN GO MO KU IS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 5 IN A ROW ON A 15 BY 15 BOARD.
COMMENTS:
SIZE:4096 DECIMAL. CONFIGURATION: 4K XDS 920.
- 850970 9-SERIES 920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
THIS IS THE STAND-ALONE ALGOL SYSTEM CONSISTING OF COMPILER, LOADER AND LIBRARY/RUNTIME.
- 850984 9-SERIES 920/930 REAL TIME FORTRAN II (COVER)
AUTHOR: XEROX
ABSTRACT:
FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING,LOADING, AND EXECUTING FORTRAN II PROGRAMS.
COMMENTS:
SEE MANUAL NO. 901048:920/930 REAL TIME FORTRAN II TECHNICAL MANUAL,MANUAL NO.900003: 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL NO. 900587: 900 SERIES FORTRAN II OPERATIONS MANUAL.
- 850985 9-SERIES PINT 920/930 BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO.901023, XDS REFERENCE MANUAL.
- 850986 9-SERIES PINT 920/930 UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER (9372).
COMMENTS:
SEE MANUAL NO.901023,XDS REFERENCE MANUAL.
- 850989 9-SERIES 920/930 FORT II CARD/PAPER TAPE INPT MOD
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 57 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
- 850990 9-SERIES 920/930 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE: 8 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
- 850991 9-SERIES 920/930 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS.
COMMENTS:
SOURCE LANGUAGE:META/SYMBOL. SIZE: 120 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD PUNCH.
- 850992 9-SERIES 920/930 FORTRAN II MAG TAPE INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
THIS MODIFICATION TO THE XDS 920 FORTRAN II COMPILER REPLACES THE PAPER TAPE INPUT CODING WITH CODING TO INPUT SOURCE CARD IMAGES FROM MAGNETIC TAPE, LOGICAL, UNIT NO. 2.
COMMENTS:
SIZE 133 DECIMAL. CONFIGURATION: ANY 920 COMPUTER WITH A MAGNETIC TAPE UNIT.
- 850997 9-SERIES 920/930 FORT II MAG TPE/PAPER TPE OUTPUT
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 282 DECIMAL. CONFIGURATION ANY 9.0/930 COMPUTER WITH A MAGNETIC TAPE UNIT.

- 850998 9-SERIES 920/930 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 238 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH A MAGNETIC TAPE
- 851008 9-SERIES 920/930 SORT MERGE (COVER)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 851007 (920/930 SORT) AND 851008 (920/930 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 920/930 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 900997 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.
- 851010 9-SERIES PAYROLL GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED ON AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE. THIS PROGRAM WORKS ONLY UNDER MANAGE.
- 851012 9-SERIES BUFFERED LINE PRINTER TRACE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW EXECUTION OF ALMOST ALL OBJECT PROGRAM INSTRUCTIONS AND PRODUCE A LINE PRINTER LISTING OF THE DESIRED INSTRUCTIONS IN SEQUENCE OF THEIR EXECUTION ALONG WITH THE INTERMEDIATE RESULTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 544 DECIMAL. CONFIGURATION: ANY 920 OR 930 WITH LINE PRINTER. RELOCATABLE BINARY CARDS ALSO AVAILABLE ON 930 RAD MONARCH SYSTEM
- 851014 9-SERIES 920/930 RTF II INBUF. PRT. COMPILER MOD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN UNBUFFERED PRINTER CAPABILITY FOR THE 920/930 REAL TIME FORTRAN II COMPILER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 64 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH 8K (OR MORE) MEMORY AND A MODEL 9372 UNBUFFERED PRINTER ON CHANNEL A.
- 851015 9-SERIES FORTRAN BUFFERED PRINTER MODIFICATION
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173).
- 851017 9-SERIES 920/930 FORTRAN II COMPILER UNBUF. PRT.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE: 80 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).
- 851019 9-SERIES 92 SIMULATOR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FUTURE 92 USER WITH THE FACILITY TO DEBUG HIS 92 PROGRAMS PRIOR TO TAKING DELIVERY OF HIS MACHINE. A COMPLETE SET OF DEBUGGING AIDS IS INCLUDED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 6644 DECIMAL. CONFIGURATION. ANY 920 WITH A TYPEWRITER AND WITH AT LEAST 8K MEMORY. A LINE PRINTER. IS REQUIRED FOR TRACE AND DUMP OPTIONS.
- 851026 9-SERIES FORTRAN DRUM READ/WRITE STATEMENTS
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE 27 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161).

PROGRAM AVAILABILITY LIST

9-SERIES CLASS B3
PROGRAM SUMMARIES

- 851027 920 JPL TCP ANALOG EQUIPMENT DEMONSTRATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO DEMONSTRATE AND CALIBRATE THE JPL TCP ANALOG EQUIPMENT EXPANSION KITS.
- 851047 9-SERIES DOUBLE PRECISION FLOATING POINT POP
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPERATION OF FLOATING POINT INSTRUCTIONS ON THE XDS 930.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 233 DECIMAL. CONFIGURATION: ANY XDS 930 COMPUTER.
- 851064 930 HYBRID EXEC. LIB. FOR AEROSPACE CORP.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A LIBRARY OF INTERCONNECTED SUBROUTINES WHICH ENABLES THE USER TO CONTROL HYBRID SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META/SYMBOL. SIZE: 3885. CONFIGURATION: 900 SERIES REAL-TIME MONITOR CONFIGURATION.
- 851106 9-SERIES PAPER TAPE - TYPEWRITER HANDLER 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 337 DECIMAL. CONFIGURATION: ANY 925/930 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.
- 851108 9-SERIES 925/930 CARD PUNCH AND VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COPY CARD IMAGES ON TAPE, AND TO REPRODUCE OR VERIFY THOSE IMAGES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 535 DECIMAL. CONFIGURATION: ANY 925/930, 9156 CARD PUNCH, CHANNEL W. CARD READER, MAG TAPE.
- 851109 9-SERIES CARD READ SUBROUTINE (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 134 DECIMAL. CONFIGURATION: ANY 925/930 WITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.
- 851112 9-SERIES MAGNETIC TAPE HANDLER (EXTENDED MODE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL. CONFIGURATION: ANY XDS 925/930 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.
- 851116 9-SERIES DSC-1 DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-1 TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851121 925 925/930 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 260 OCTAL WORDS. CONFIGURATION: ANY XDS 925 OR 930 WITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

- 851131 900-SERIES SNAPSHOT SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL PERFORM SNAPSHOT AT SELECTED POINTS IN CORE. SNAPSHOT IS CALLED AS A SUBROUTINE. SNAPSHOT WILL ALSO INSERT CORRECTIONS IN CORE. EACH SNAPSHOT PRINTS THE P,A,B,X REGISTERS ALONG WITH THE BLOCK LIST SPECIFIED. INPUT PARAMETERS ARE READ FROM THE CARD READER. ILLEGAL CONTROL CARDS ARE PRINTED ON THE TYPEWRITER.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY 910,920,925,930 COMPUTER WITH A CARD READER, PRINTER AND TYPEWRITER. THIS RELOCATABLE PROGRAM REQUIRES 571 OCTAL LOCATIONS.
- 851143 900-SERIES UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
PROVIDES ALL ASPECTS OF MAGNETIC TAPE PROCESSING RELATED TO UTILITY USAGE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CON: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, TWO MAG TAPES AND CARD READER.
- 851144 900-SERIES LIST TAPE ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LIST A SYMBOLIC TAPE OF UP TO 33 WORDS PER RECORD AT THE I/O DEVICE SPEED. THREE OPTIONS ARE PROVIDED VIA BREAKPOINT SWITCHES LISTING THE FIRST 25 RECORDS OR ALL RECORDS IN A FILE HALTING ON AN EOF ACCEPTING OR IGNORING A RECORD WHEN A READ ERROR OCCURS
COMMENTS:
COMPUTER CONFIGURATION: ANY 910,925,920,930 COMPUTER WITH A CARD READER, PRINTER, MAGNETIC TAPE, INTERLACE CONTROL AND TYPEWRITER. THE PROGRAM IS LOADED BY THE STANDARD LOAD PROCEDURES FOR A BINARY PROGRAM
- 851145 910 15 KC MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS INTENDED TO EXERCISE 15 KC MAGNETIC TAPE UNITS SUCH AS THE 9146. THE TAPE UNIT MUST BE ATTACHED TO THE Y BUFFER. A TYPEWRITER MUST BE CONNECTED TO THE W BUFFER.
COMMENTS:
THIS PROGRAM WILL WORK WITH ANY XDS 900 SERIES COMPUTER. THE PROGRAM OPERATES IN EITHER THE PROGRAM CONTROL MODE OR THE INTERLACE CONTROL MODE. THE Y BUFFER INTERRUPTS ARE UTILIZED BY THE PROGRAM.
- 851149 92 LN-FLOATING-POINT NATURAL LOGARITHM
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS EXPONENTIAL (BASE E)
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 133 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851150 92 SIN/COS-FLOATING-POINT SINE-COSINE SUBR.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS SINE OR COSINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 178 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851151 92 ATAN-FLOATING-POINT ARCTANGENT SUBR.
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED NORMALIZED FLOATING-POINT ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 246 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851158 92 92 SYMBOL
AUTHOR: XEROX
ABSTRACT:
TO ASSEMBLE SOURCE LANGUAGE PROGRAMS WRITTEN IN THE XDS 92 SYMBOL ASSEMBLY LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 4096 DECIMAL. CONFIGURATION: ANY XDS 92 WITH AT LEAST 4K MEMORY.
- 851159 92 PAPER TAPE+TYPEWRITER SUBROUTINE(PTY10)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A PAPER TAPE READER OR CONSOLE TYPEWRITER AND TRANSMITTING DATA TO A PAPER TAPE PUNCH OR CONSOLE TYPEWRITER AND PERFORMING THESE FUNCTIONS IN

851159 CONTINUED ON FOLLOWING PAGE

- 851159 PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO) (CONTINUED)
EITHER BCD OR BINARY MODE. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 276 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER,
A PAPER TAPE PUNCH,OR A CONSOLE TYPEWRITER ATTACHED TO THE I/O CHANNEL.
- 851160 92 BINARY PAPER TAPE RELOCATING BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 306 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851161 92 BINARY PAPER TAPE BOOTSTRAP LOADER
AUTHOR: XEROX
ABSTRACT:
TO RELOCATE INTO UPPER MEMORY BINARY PAPER TAPE OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND
RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ON CONTAINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 302 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851162 92 UNIVERSAL BINARY LOADER (QUBLDR)
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS INTO MAIN (CORE) MEMORY FOR EXECUTION. PROGRAMS TO BE LOADED MUST BE
PRESENTED TO THE LOADER IN THE OBJECT PROGRAM FORMAT EMPLOYED BY XDS 92 SYMBOL.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 803 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE
READER AND TYPEWRITER. THE LOADER IS AVAILABLE ON PAPER TAPE BUT CAN LOAD PROGRAMS WHICH EXIST EITHER ON
PUNCHED CARDS OR PAPER TAPE.
- 851163 92 BINARY PAPER TAPE RELOCATING UPPER LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/ DEFINITION. THIS LOADER DIFFERS FROM
CATALOG NO. 851160, IN THAT IT RESIDES IN UPPER MEMORY (THE LAST 278 LOCATIONS) AND ONCE LOADED, DOES
NOT USE ANY LOWER MEMORY OTHER THAN SCRATCHPAD (0-31).
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 278 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851167 92 CARD READ HANDLER (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING 80-COLUMN CARDS PUNCHED IN EITHER BCD (HOLLERITH
CODED) OR BINARY FORMAT. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 126 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A CARD READER,
ATTACHED TO THE I/O CHANNEL.
- 851169 92 MAGNETIC TAPE SUBROUTINE (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING AND/OR WRITING VARIABLE LENGTH RECORDS IN EITHER BCD
OR BINARY MODES. BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A MAGNETIC TAPE UNIT, ATTACHED TO THE
I/O CHANNEL AT 200, 556, OR 800 BPI DENSITY.
- 851176 92 MEMORY TO LINE PRINTER OCTAL DUMP
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
SIZE 80 DECIMAL. CONFIGURATION: ANY XDS 92 WITH LINE PRINTER AND PAPER TAPE OR CARD READER.
- 851177 92 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT
CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 184 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A LINE BUFFERED
PRINTER, ATTACHED TO THE I/O CHANNEL.

- 851178 92 MOD. 9372 UNBUF. LINE PRINTER.SUBR.(PRIN
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 466 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.
- 851188 92 92 BASIC UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 92.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 840 DECIMAL WORDS. CONFIGURATION: ANY XDS 9300 COMPUTER.
- 851220 900-SERIES MANAGE SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
XDS MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION MAKING. IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY RECORDS ON MAGNETIC TAPE, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE PRINTED REPORTS OF THE DATA WHEN REQUESTED.
- 851257 900-SERIES 925/930 RTM STAND-ALONE UPDATE
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 925/930 RTM SYS0EN TAPES.
COMMENTS:
SOURCE LANGUAGE: METASYMBOL. CONFIGURATION: XDS 925/930 WITH 8K MEMORY (MINIMUM).
- 851258 910 910/925 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PREFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE. MAG TAPES, AND UNBUFFERED PRINTER.
- 851259 920 920/930 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND UNBUFFERED PRINTER.
- 851260 925 925 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9387 DISC FILE, AND UNBUFFERED PRINTER.
- 851261 930 930 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9387 DISC FILE, AND UNBUFFERED PRINTER.
- 851290 9-SERIES MONARCH MPRNT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTER.

- 851291 9-SERIES MONARCH PRINT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTERS.
- 851292 9-SERIES MONARCH CDRP
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN A BINARY CARD IMAGE FROM CARD READER.
- 851293 9-SERIES MONARCH PTY10
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN CONTROL MESSAGE RECORDS FROM A PAPER-TAPE READER OR A TYPEWRITER AND TO TYPE CONTROL MESSAGES AND ERROR MESSAGES ON TYPEWRITER.
- 851294 9-SERIES MONARCH MTAPE
AUTHOR: XEROX
ABSTRACT:
TO PERFORM MAGNETIC TAPE INPUT AND OUTPUT FUNCTIONS REQUESTED BY THE MONARCH CONTROL AND ACTION ROUTINES.
- 851295 9-SERIES MONARCH PRINT
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL AND ERROR MESSAGES ON LINE PRINTER.
- 851299 930 EXT. I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)
AUTHOR: S. GOOD
ABSTRACT:
THIS PROGRAM EXERCISES THE 12 EXTERNAL INPUTS (PIN) AND THE 12 EXTERNAL OUTPUTS (POT) OF THE NAVAL TORPEDO STATION SYSTEM (ADD-ON).
COMMENTS:
IN THE 'POT' MODE, THE OPERATOR TYPES IN THE OCTAL VALUE TO BE OUTPUT AND THIS VALUE IS SEQUENTIALLY 'POTTED' BY ALL OF THE 12 EXTERNAL OUTPUTS. IN THE 'PIN' MODE, THE VALUE OF EACH OF THE 12 EXTERNAL INPUTS IS SEQUENTIALLY TYPED, IN OCTAL.
- 851300 900-SERIES 925/930 FORTRAN IV LIBRARY
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS A COVER NUMBER FOR THE COMPLETE FORTRAN IV LIBRARY. IT INCLUDES CATALOG NUMBERS 851301 THROUGH 851488.
- 851500 900-SERIES 925/930 REAL-TIME MONITOR
AUTHOR: XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATION IN A REENTRANT, ONLINE REAL TIME MODE WILL NOT RUN ON 910/920. FOR REDUCTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 851502 THRU 851578, THE -85 ELEMENT CONTAINS: REAL TIME MONITOR SYMBOL ASSEMBLER, REAL TIME FORTRAN IV COMPILER, AND REAL TIME FORTRAN IV LIBRARY.
- 851579 930 ARRAYS PROGRAM FOR NAVAL TORPEDO STATION
AUTHOR: XEROX
ABSTRACT:
TO TEST THE INPUT HARDWARE THAT SAMPLES THE ARRAYS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. COMPUTER CONFIGURATION: NAVAL TORPEDO STATION SYSTEM (ADD-ON) (930)
- 851583 900-SERIES 900 SERIES FORTRAN IV COMPILER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION ON ANY 900 SERIES MACHINE OF PROGRAMS WRITTEN IN XDS FORTRAN IV, WITH THE EXCEPTION OF THOSE STATEMENTS AS NOTED IN THE XDS FORTRAN IV REF MANUAL AND APPLICABLE NSS MEMOS.
COMMENTS:
ITS LIMITATIONS ARE DESCRIBED IN 851500-11 BUT NO OTHER FORMAL DOCUMENTATION EXISTS.

851586 92 FLN -FLOATING NEGATE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NEGATE A FLOATING-POINT NUMBER IN THE PSEUDO ACCUMULATOR

851587 92 FLOAT -FIXED TO FLOATING SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO FLOAT A FIXED-POINT TWO'S COMPLEMENT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING IN THE B REGISTER TO A FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR.

851588 92 FIX -FLOATING TO A FIXED SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR TO A TWO'S COMPLEMENT FIXED POINT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING SPECIFIED IN THE B REGISTER.

851589 92 DVASIM -SIMULATED DVA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVA INSTRUCTION WHEN A DVA TRAP OCCURS

851590 92 DVBSIM -SIMULATED DVB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVB INSTRUCTION WHEN A DVB TRAP OCCURS

851591 92 MUASIM -SIMULATED MUA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUA INSTRUCTION WHEN AN MUA TRAP OCCURS

851592 92 MUBSIM -SIMULATED MUB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUB INSTRUCTION WHEN AN MUB TRAP OCCURS

851593 92 NORMZ -FLOATING NORMALIZE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NORMALIZE A FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR

851594 92 SQRT -FLOATING-POINT SQUARE ROOT SUBRT.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS SQUARE ROOT

851595 92 EFFADR -EFFECTIVE ADDRESS ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO DETERMINE THE EFFECTIVE ADDRESS OF AN INSTRUCTION. THE EFFECTIVE ADDRESS IS PLACED IN BITS 9-11 OF LOCATION 20 AND IN LOCATION 21

851596 92 EXP -FLOATING POINT EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS EXPONENTIAL

851597 92 FLOATING POINT ARITHMETIC PKGE, FLPT92
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE FLOATING-POINT CAPABILITY FOR XDS 92. THE FLOATINGPOINT PACKAGE CONSISTS OF: FLA - FLOATING ADD FLS - FLOATING SUBTRACT FLM - FLOATING MULTIPLY FLD - FLOATING DIVIDE LDT - LOAD TRIPLE PRECISION NORMZ - NORMALIZE FLOATING POINT NO. (SEE CAT. NO. 703008)

851598 900-SERIES 910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
910 SYMBOL 4 IS DESIGNED TO RUN ON A XDS 910 WITH 4096 WORDS OF MEMORY, A TYPEWRITER, AND PAPER TAPE
INPUT/OUTPUT.

851599 900-SERIES 910 SYMBOL 4 BUF. LINE PRINTER MOD.
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851600 900-SERIES 910 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT THE LIST OUTPUT IN SYMBOL FROM THE TYPEWRITER TO THE 9170 LINE PRINTER.

851601 900-SERIES 910 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL 4 ASSEMBLER.

851602 900-SERIES 910/920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 910/920 WITH 4096 WORDS OF MEMORY, TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851603 900-SERIES 910/920 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851604 900-SERIES 920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851605 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851606 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851607 900-SERIES 920 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL ASSEMBLER.

851608 900-SERIES 920/910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/910 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851609 900-SERIES 920/910 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851610 900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

- 851811 900-SERIES 920/930 SYMBOL 8 BUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 6K-16K MEMORY, 9173 LINE PRINTER, PAPER TAPE INPUT.
- 851812 900-SERIES 920/930 SYMBOL 8 UNBUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 6K-16K MEMORY, 9170 LINE PRINTER, PAPER TAPE INPUT.
- 851813 9-SERIES 1-CARD DUMP PUNCH PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PUNCH OUT A 1-CARD DUMP FOR A CARD-READER ON ANY CHANNEL AND/OR TO PUNCH OUT THE SAME DUMP PROGRAM ON A PAPER TAPE STATION ATTACHED TO ANY CHANNEL. THE DUMP ITSELF MAY BE PLACED ON A PRINTER ATTACHED TO ANY CHANNEL.
COMMENTS:
COMPUTER CONFIGURATION: ANY 9-SERIES COMPUTER WITH META-SYMBOL ON THE SYSTEM
- 851814 9-SERIES RAD TO MAGNETIC TAPE DUMP
AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.
- 852000 9-SERIES 9-SERIES SOFTWARE NOTES COVER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS CATALOG NUMBER EXISTS FOR THE SOLE PURPOSE OF IMPLEMENTING THE 9-SERIES TECHNICAL NOTE CONCEPT WHICH IS DESCRIBED IN THE -11. IT IS EFFECTIVELY A REFERENCE COVER NUMBER FOR ALL 9-SERIES SOFTWARE (INCLUDING USER'S GROUP ITEMS) BUT HAS NO ORDERABLE ELEMENTS OTHER THAN THE PROGRAM DESCRIPTION (-11).
COMMENTS:
SUBSCRIPTIONS TO THE TECHNICAL NOTE SYSTEM ARE AVAILABLE BUT MUST BE PROCESSED THROUGH THE USERS' GROUP.
- 860000 9300 TAPE MONITOR SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE EFFICIENT SYSTEM OPERATIONS WITH MINIMUM OPERATOR INTERVENTION AND AN EASY-TO-USE INPUT/OUTPUT FACILITY HAVING MAXIMUM EFFICIENCY WHILE TAKING INTO ACCOUNT THE NEEDS OF THE USER'S PROGRAM (I/O OPERATIONS ARE PERFORMED SIMULTANEOUSLY WITH THE USER'S PROGRAM). THE RESIDENT MONITOR REQUIRES 11653 OCTAL LOCATIONS WITH THE PROCESSORS BEING OVERLAPPED ('PING-PONGED') ABOVE THIS LOCATION.
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860001 THRU 860006, 860008 THRU 860031, 861080, AND 861081.
- 860035 9300 FORT IV COMPILER AND LIBRARIES
AUTHOR: XEROX
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860036 THRU 860074 AND COVER NUMBERS 860095 AND 860265.
- 860075 9300 META-SYMBOL ASSEMBLER-COVER
AUTHOR: XEROX
ABSTRACT:
THE PRIMARY PURPOSE OF THE META-SYMBOL ASSEMBLY SYSTEM IS TO PROVIDE USER'S OF XDS COMPUTERS A PROCESSOR CAPABLE OF TRANSLATING SYMBOLIC LINES OF CODE (WRITTEN IN AN ADVANCED ASSEMBLY LANGUAGE) TO MACHINE LANGUAGE AND TO PROVIDE THE USER A LISTING OF THE MACHINE LANGUAGE GENERATED AS WELL AS A LOADABLE PROGRAM TAPE OR DECK.
COMMENTS:
ANY XDS 9300 WITH A MINIMUM OF 8K MEMORY. SEE MANUAL NO. 900827: META-SYMBOL TECHNICAL MANUAL FOR A MORE DETAILED DESCRIPTION OF THE COMPUTER REQUIREMENTS
- 860095 9300 FORTRAN IV LIBRARY
AUTHOR: XEROX
COMMENTS:
THIS IS A PROGRAM PACKAGE CONTAINING ALL THE FORTRAN IV LIBRARY ROUTINES. ABSOLUTE BINARY CARDS ARE AVAILABLE ON MAG TAPE (860000-85), RELOCATABLE BINARY CARDS AVAILABLE ON MAG TAPE (860000-25).
- 860265 9300 REAL-TIME FORTRAN IV LIBRARY
AUTHOR: XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE REAL TIME FORTRAN IV LIBRARY. ABSOLUTE BINARY CARDS ARE AVAILABLE ON 860265-85, THE ABSOLUTE BINARY TAPE.

- 860480 9300 MACHINE LANGUAGE LIBRARY (COVER)
AUTHOR: XEROX
COMMENTS:
THIS COMMON SOFTWARE PACKAGE CONSISTS OF THE FOLLOWING ROUTINES: CARD READ SUBROUTINE-CDR, I/O HANDLER-CDRP, FLOATING POINT ARCTANGENT-ATF, FLOATING POINT SINE (COSINE)-SNF (CSF), FLOATING POINT COMPLEX, FLOATING POINT COMPLEX EXPONENTIAL, FLOATING POINT COMPLEX LOGARITHM, FLOATING POINT COMPLEX SQUARE ROOT -SQFC, FLOATING POINT COMPLEX ARCTANGENT-ATFC, FLOATING COMPLEX SINE AND COSINE-SNFC, FLT.PT. EXTENDED PRECISION SQUARE ROOT, FLT.PT. EXTENDED PRECISION NATURAL LOG, FLT. PT. EXTENDED PRECISION ARCTAN-ATFE, DECIMAL/BINARY CONVERSION, DECIMAL TO BINARY CONVERSION-DTBFX, PAPER TAPE AND TYPEWRITER SUBROUTINE-PTYIO, LINE PRINTER SUBROUTINE (PRINT), FLOATING NEGATE SUBROUTINE-FLN, EXPONENTIAL OF A-EXP, SIN OR COS OF A-SIN COS, ARCTAN OF A-ATN, SQUARE ROOT OF A-SQR, SQUARE ROOT FLOATING POINT-SQF, FLOATING POINT LOG-ARITHM-LGF, AND FLOATING-HYPERBOLIC SINE AND COSINE-SHF.
- 860475 9300 9300 MANAGE SYSTEM (COVER)
AUTHOR: XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE XDS 9300 MANAGE SYSTEM. THIS PROGRAM PACKAGE CONTAINS THE FOLLOWING CATALOG NUMBERS: 860476 THRU 860489. PLEASE SEE THE APPROPRIATE PROGRAM FOR THE COMPUTER CONFIGURATION.
- 860490 9300 9300 BUSINESS LANGUAGE LIBRARY-COVER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM CHARACTER MANIPULATIONS, WORD MANIPULATIONS, DECIMAL ARITHMETIC, EDITING, AND INTERNAL SORTING FOR THE BUSINESS APPLICATIONS PROGRAMMER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/XDS BUSINESS LANGUAGE SIZE: 1585 WORDS, WITH ALL SUBROUTINES RESIDENT.
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER, UNDER MONARCH, OR THE 9300, UNDER MONITOR.
- 860530 9300 MONARCH SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES/ 9300 COMPUTER WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES. FOR DETAILS, SEE MONARCH REFERENCE MANUAL. (NO. 900566)
- 860563 9300 MEDIA
AUTHOR: XEROX
ABSTRACT:
MEDIA WILL COPY VARIABLE LENGTH RECORDS FROM BCD OR BINARY CARDS, PAPER OR MAG TAPE OR TYPEWRITER TO CARDS, PAPER TAPE, MAG TAPES, TYPEWRITER AND/OR LINE PRINTER.
COMMENTS:
THIS PROGRAM IS INCLUDED ON 860000, 9300 TAPE MONITOR, 860530, 9300 MONARCH. ITS SOURCE IS IDENTICAL TO THAT FOR 850642. THE ABSOLUTE BINARY (STAND-ALONE) DECK CONTAINS THE REQUIRED I/O ROUTINES.
- 860592 9300 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM. WHICH CONSISTS OF THE FOLLOWING PROGRAMS: CATALOG NO.-860593 860594 860595 860596 860597 860598
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE.
- 860605 9300 9300 PAPER TAPE BASIC RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM PAPER TAPE WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 68 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH PAPER TAPE READER.
- 860606 9300 9300 DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE, IE: 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE: 498 DECIMAL WORDS.CONFIGURATION: ANY XDS 9300 COMPUTER.

- 860607 9300 BASIC UTILITY PACKAGE 9300
AUTHOR: XEROX
ABSTRACT:
860607-84A00 ABSOLUTE BINARY CARDS
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 9300. THE PACKAGE ALLOWS ABSOLUTE OCTAL OR DECIMAL ENTRY FROM THE KEYBOARD, PAPER TAPE, OR CARD READER AND WILL PRODUCE MEMORY LISTING ON THE TYPEWRITER OR OUTPUT (ABSOLUTE) ON EITHER PAPER TAPE OR CARDS, AND TO READ ABSOLUTE OR RELOCATABLE BINARY TAPES OR DECKS. THE PACKAGE CAN BE USED DURING PROGRAM DEBUGGING FOR SETTING INITIAL CONDITIONS IN THE REGISTERS FROM ONE OF THE ENTRY MEDIA AND THEN STARTING COMPUTATION FROM A PRESELECTED POINT. THE PACKAGE WILL ALSO PRODUCE A SNAPSHOT OF THE REGISTERS DURING A PROGRAM RUN USING INTERRUPT 32. COMPUTATION CAN BE
COMMENTS:
RESUMED WITH THE REGISTERS RESTORED OR ALTERED FROM THE POINT OF INTERRUPTION.
SOURCE LANGUAGE: META-SYMBOL SIZE: 840 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER
- 860608 9300 BINARY DUMP PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT ON PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE: SYMBOL SIZE: 251 DECIMAL WORDS CONFIGURATION: ANY XDS COMPUTER WITH PAPER TAPE AND/OR CARD I/O
- 860609 9300 UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE: 546 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.
- 860610 9300 9300 REAL TIME DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE UTILITY PROGRAM WHICH WILL AID THE USER IN DEBUGGING UNDER AN INTERRUPT ENVIRONMENT. IT IS PARTICULARLY USEFUL FOR LARGE, COMPLEX SYSTEM PROGRAMS, SUCH AS MONITORS AND OTHER REAL-TIME FUNCTIONS. OPERATIONS WHICH MAY BE PERFORMED BY THIS PROGRAM: DUMPS, ALTERATIONS, INSERTIONS, SNAPSHOTS, SELECTIVE TRACING, PROGRAM LOADING AND PUNCHING.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH TYPEWRITER (A CHANNEL) AND INTERLACE. BUFFERED PRINTER, CARD READER, CARD PUNCH, PAPER TAPE READER AND PUNCH ARE OPTIONALLY REQUIRED FOR CERTAIN DEBUG FUNCTIONS.
- 860611 9300 UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINES AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META SYMBOL SIZE: 2606 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CONSOLE TYPEWRITER.
- 860612 9300 RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 93 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER.
- 860613 9300 RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 103 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860614 9300 POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO EVALUATE AN NTH ORDER POLYNOMIAL WITH REAL COEFFICIENTS FOR A COMPLEX ARGUMENT, $A+BI$.
COMMENTS:
SIZE: 61 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860615 9300 ADAMS-MOULTON DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STOP.
COMMENTS:
SIZE: 208 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER
- 860616 9300 FLOATING NEGATE SUBROUTINE - FLN
AUTHOR: XEROX
ABSTRACT:
TO NEGATE THE FLOATING POINT CONTENTS OF (A,B).
COMMENTS:
SIZE: 26 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860617 9300 PROGRAMMED FLOATING POINT PACKAGE-FLPT
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE FLOATING-POINT HARDWARE ON AN XDS 9300 WHICH DOES NOT HAVE HARDWARE FLOATING-POINT OR ON WHICH THE HARDWARE FLOATING POINT HAS BEEN DISABLED.
COMMENTS:
SIZE: 150 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860618 9300 EXPONENTIAL OF A - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E) OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 63 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860619 9300 SIN OR COS OF A - SIN COS
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS.
COMMENTS:
SIZE: 59 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860620 9300 ARCTAN OF A - ATN
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS AND QUADRANTAL-LOCATE THE RESULTS.
COMMENTS:
SIZE: 87 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860621 9300 DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION PRODUCT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860622 9300 SQUARE ROOT OF A - SQR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SQUARE ROOT OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860623 9300 SQUARE ROOT FLOATING POINT - SQF
AUTHOR: XEROX
ABSTRACT:
TO EXTRACT THE SQUARE ROOT OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 83 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860624 9300 DOUBLE PRECISION DIVIDE SUBROUTINE-DPD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION QUOTIENT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860625 9300 FLOATING POINT LOGARITHM - L0F
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 60 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860626 9300 FLOATING-HYPERBOLIC SINE AND COSINE-SHF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING-POINT HYPERBOLIC SINE AND COSINE OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 80 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860627 9300 FLOATING POINT EXPONENTIAL - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860628 9300 FLOATING POINT SINE (COSINE)-SNF (CSF)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS.
COMMENTS:
SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860629 9300 FLOATING POINT ARCTANGENT - ATF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SIZE: 105 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860630 9300 FLOATING POINT, COMPLEX ARITH. PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT, COMPLEX ARITHMETIC OPERATIONS: LDFC: (CM) REPLACES (CA) STFC:
(CA) REPLACES (CM) FLAC: (CA)+(CM) REPLACES (CA) FLSC: (CA)+(CM) REPLACES (CA) FLMC: (CA)+(CM) REPLACES
(CA) FLDC: (CA)/(CM) REPLACES (CA) FLNC: (CA) REPLACES (CA) (CA DENOTES THE PSEUDO COMPLEX ACCUMULATOR
WITH REAL PART IN CA, CA+1, IMAGINARY PART IN CA+2, CA+3, CM DENOTES COMPLEX OPERAND WITH REAL PART IN M,
M+1 IMAGINARY PART IN M+2, M+3).
COMMENTS:
SIZE: 129 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860631 9300 FLOATING POINT COMPLEX EXPONENTIAL-EXFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING COMPLEX ARGUMENT.
COMMENTS:
SIZE: 15 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860632 9300 FLOATING POINT COMPLEX LOGARITHM - LNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX, NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE: 21 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860633 9300 FLOATING POINT COMPLEX SQUARE ROOT-SQFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SQUARE ROOT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860634 9300 FLOATING POINT COMPLEX ARCTANGENT - ATFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX ARCTANGENT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:46 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860635 9300 FLOATING COMPLEX SINE AND COSINE - SNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SINE AND COSINE OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:30 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860636 9300 LOGARITHM SUBROUTINE TO BASE E OR 10
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE LOGARITHM, TO BASE E OR 10, OF AN ARGUMENT IN THE A REGISTER.
COMMENTS:
SIZE: 64 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860637 9300 FL. PT. EXTENDED PRECISION SQUARE ROOT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SQUARE ROOT OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:23 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860638 9300 EXTENDED PRECISION ARITHMETIC PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT AND FIXED POINT EXTENDED PRECISION ARITHMETIC OPERATIONS.
FLOATING POINT LDFE: (EM) REPLACES (EA) STFE: (EA) REPLACES (EM) FLAE: (EA)+(EM) REPLACES (EA) FLSE:
(EA)-(EM) REPLACES (EA) FLME: (EA)*(EM) REPLACES (EA) FLDE: (EA)>(EM) REPLACES (EA) FLNE: -(EA) REPLACES
(EA) FIXED POINT TPM: (EA)*(EM) REPLACES (EA) TPA: (EA)+(EM) REPLACES (EA) (EA DENOTES THE PSEUDO
EXTENDED ACCUMULATOR AND EM DENOTES THE EXTENDED OPERAND IN MEMORY).
COMMENTS:
SIZE: 481 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860639 9300 BINARY TO DECIMAL CONVERSION-BTDFL1
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
STORE IT IN 4 CONSECUTIVE LOCATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 197 DECIMAL WORDS COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860640 9300 BINARY TO BCD CONVERTED BTDFX2,BTDFL2
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7 DIGIT EQUIVALENT STORED IN
3 CONSECUTIVE LOCATIONS
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 222 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860641 9300 ONE CARD OCTAL MEMORY DUMP (PRINTER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH LINE PRINTER.
- 860642 9300 FL. PT.EXTENDED PRECISION EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT
EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE: 121 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860643 9300 DECIMAL/BINARY CONVERSION ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7-DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS; TO CONVERT AN 11-DIGIT NUMBER IN SCIENTIFIC NOTATION TO ITS FLOATING BINARY EQUIVALENT.
COMMENTS:
SIZE:318 DECIMAL WORDS. COMPUTER CONFIGURATION:XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860644 9300 DECIMAL TO BINARY CONVERSION - DTBFX
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A SIGNED BCD NUMBER TO ITS FIXED POINT BINARY EQUIVALENT AT A GIVEN SCALING.
COMMENTS:
SIZE:80 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860645 9300 9300 DISPLAY CONVERSION (DISCV)-S SEE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER INTO THE FOLLOWING ONE-WORD FORMAT, WITH SPEED OF CONVERSION THE PRIMARY CONSIDERATION:+OR-XXXXOR-EE
COMMENTS:
SIZE:323 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860646 9300 FL. PT. EXTENDED PRECISION NATURAL LOG
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:147 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860647 9300 F. P. EXTENDED PRECISION SIN (COS)-SNFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SINE (COSINE) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT IN RADIANS.
COMMENTS:
SIZE: 163 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860648 9300 PAPER TAPE AND TYPEWRITER SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:345 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.
- 860650 9300 FL. PT. EXTENDED PRECISION ARCTAN - ATFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION ARCTANGENT OF THE RATIO OF TWO SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENTS.
COMMENTS:
SIZE:222 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860651 9300 REAL MATRIX ADDITION-RMADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860652 9300 REAL MATRIX SUBTRACTION - RMSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE:FORTRAN IV. SIZE:82 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

- 860653 9300 REAL MATRIX TRANSPOSE-RMTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860654 9300 REAL MATRIX MULTIPLY-RMMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 108 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860655 9300 REAL MATRIX INVERSION-RMINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS. IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURNS WITH A DETERMINANT OF ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 673 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860656 9300 COMPLEX MATRIX ADDITION-CHADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860657 9300 COMPLEX MATRIX INVERSION-CMINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF COMPLEX ELEMENTS. IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURN WITH A DETERMINANT OF COMPLEX ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 794 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860658 9300 COMPLEX MATRIX MULTIPLICATION-CHMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF COMPLEX ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 118 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860659 9300 COMPLEX MATRIX SUBTRACTION-CHSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE BETWEEN TWO RECTANGULAR COMPLEX MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860660 9300 COMPLEX MATRIX TRANSPOSE-CHTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF COMPLEX ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860669 9300 SINE/COSINE SINRX,COSRX,SINDX,COSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS (SINRX,COSRX) OR DEGREES (SINDX,COSDX)
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 84 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860870 9300 9300 EXPONENTIAL (E OR 10) EXPNX,EXPTX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E OR 10) OF A SPECIFIED ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860871 9300 9300 ARCTANGENT ATNRX,ATNDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS OR DEGREES AND QUADRANTALLOCATE THE RESULT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 96 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860872 9300 FLOATING POINT EXPONENTIAL EXFN,EXFT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E OR 10) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860873 9300 F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS R OR DEGREES D.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 88 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860874 9300 LOGARITHM (BASE E OR 10)-L0FN,L0FT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT LOGARITHM TO BASE E OR 10 OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860875 9300 FL. PT. ARCTANGENT-ATFR,ATFD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT (IN DEGREES OR ADIANS) OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 117 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860876 9300 ARCSINE,ARCCOSINE (DEGREES-RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE FLOATING POINT SIN-1 AND COS-1 OF A GIVEN ARGUMENT. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST OR SECOND QUADRANT FOR COS-1.
COMMENTS:
SIZE: 126 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860877 9300 ARCSINE,ARCCOSINE-ASNX,ACSX,ASNDC,ACSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE SIN-1 AND COS-1 OF A GIVEN ARGUMENT IN THE A REGISTER AT A BINARY POINT OF 1. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST AND SECOND QUADRANT FOR COS-1. VALUES IN RADIANS WILL BE AT A BINARY POINT OF 2. VALUES IN DEGREES WILL BE AT A BINARY POINT OF 8.
COMMENTS:
SIZE: 101 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860878 9300 TANGENT-TAN,TAND
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FLOATING POINT NUMBER EXPRESSED IN DEGREES (TAND) OR RADIANS (TAN).
COMMENTS:
SIZE: 123 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860679 9300 INTERNAL SORT (SORTAC,SORTDC)
AUTHOR: XEROX
ABSTRACT:
TO SORT AN INTERNAL ARRAY IN EITHER ASCENDING OR DESCENDING ORDER. THE ARRAY MAY BE OF ANY NUMBER OF UNIFORMLY LONG ITEMS WHICH MAY BE ONE OR MORE WORDS, BOTH THE KEY BITS AND THEIR ORDER OF PRECEDENCE MAY BE SPECIFIED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 485 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860680 9300 TANGENT-TANX,TANDX(DEGREES OR RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FIXED POINT NUMBER EXPRESSED IN DEGREES (TANDX) OR RADIANS (TANX).
COMMENTS:
SIZE: 112 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860681 9300 HYBRID RUNGE-KUTTA GILL INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE(S) MAY BE CHANGED AFTER ANY COMPLETE STOP. ONE LEVEL OF RECURSIVENESS IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 111 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860682 9300 LINEAR INTERPOLATION (3 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS,X,Y,AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,Z,F(X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 131 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860683 9300 LINEAR INTERPOLATION (2 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS,X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860684 9300 LINEAR INTERPOLATION (1 ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHT-LINE INTERPOLATION IN A TABLE OF X,F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860685 9300 HYBRID ADAMS-MOULTON DIFF. EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 154 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860686 9300 HYBRID RECTANGULAR INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 32 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860687 9300 HYBRID 2-POINT PREDICTOR
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860688 9300 HYBRID 4-POINT PREDICTOR
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860689 9300 HYBRID 4-POINT CORRECTOR
AUTHOR: XEROX
ABSTRACT:
TO CALCULATE AN IMPROVED ESTIMATE OF THE SOLUTION OF A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860690 9300 ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STEP.
COMMENTS:
SIZE: 224 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860692 9300 9300 STAND-ALONE SYSTEM-MAKE ROUTINE
AUTHOR: XEROX
ABSTRACT:
SYSTEM MAKE IS A FREE-STANDING, CONTROL CARD ORIENTED ROUTINE FOR MAKING AND CHANGING 9300 MONITOR SYSTEM TAPES.
COMMENTS:
SIZE: 5340 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER, BUFFERED PRINTER, CARD READER TWO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.
READER TWO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.
- 860694 9300 MAG TAPE COPY AND VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COPY AND VERIFY MIXED MODE (BINARY AND BCD) MAG TAPES ON A FILE BASIS, UTILIZING THE 9300 MONITOR I/O HANDLERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 764 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER, CARD READER AND TWO MAG TAPE UNITS.
- 860697 9300 POLYNOMIAL TELESCOPER
AUTHOR: XEROX
ABSTRACT:
TO REDUCE BY STEPS THE DEGREE OF A GIVEN POLYNOMIAL, CALCULATING NEW COEFFICIENTS AT EACH STEP, UNTIL THE ACCUMULATED ERROR GENERATED EXCEEDS A GIVEN LIMIT.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 1232 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860698 9300 KWIC INDEX PROGRAM FOR SIGMA
AUTHOR: XEROX
ABSTRACT:
GIVEN A SET OF SIGMA PROGRAM LIBRARY CARDS AS INPUT, TO PRODUCE A KWIC (KEY WORD IN CONTEXT) INDEX, ALPHABETICALLY SORTED, KEYING ON ALL WORDS IN THE TITLE THAT HAVE NOT BEEN SPECIFIED AS ,DULL, WORDS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 25000 DECIMAL WORDS. COMPUTER CONFIGURATION: 32K, 9300 WITH AT LEAST 4 MAG TAPES.
- 860700 9300 FORTRAN IV ERROR CHECKING DEMO
AUTHOR: XEROX
ABSTRACT:
TO ILLUSTRATE COMPILE-TIME ERROR CHECKING CAPABILITY OF 9300 FORTRAN IV.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. COMPUTER CONFIGURATION: ANY 9300

- 860716 9300 BINARY INPUT--PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY PAPER TAPE.
COMMENTS:
SIZE: 40 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE READER.
- 860720 9300 BASIC 2 CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM CARDS WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT. EXTERNA REFERENCES AND DEFINITIONS ARE NOT ALLOWED AND ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 79 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.
- 860721 9300 BINARY INPUT-1 CARD ABS. LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY CARDS.
COMMENTS:
SIZE: 37 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.
- 860722 9300 ONE CARD OCTAL MEMORY DUMP (TYPEWRITER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY.
COMMENTS:
SIZE: 65 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860723 9300 OCTAL INPUT-1 CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860728 9300 CARD READ SUBROUTINE - CDR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.
- 860731 9300 I/O HANDLER CDRP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING OR PUNCHING CARDS IN EITHER BCD OR BINARY MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 277 OCTAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER/OR PUNCH.
- 860732 9300 MAGNETIC TAPE HANDLER (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-M.
- 860733 9300 CARD OR MAG. TAPE UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR MAGNETIC TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 1071 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR MAGNETIC TAPE.

- 860734 9300 MAG TAPE TRANSFORMATION (TRANSFORM)
AUTHOR: XEROX
ABSTRACT:
TO TRANSFORM A FILE OF BLOCKED RECORDS WHOSE LOGICAL RECORD LENGTH (IN CHARACTERS) IS A NON-MULTIPLE OF FOUR (4) TO A NEW FILE WHOSE LOGICAL RECORD LENGTH IN CHARACTERS IS A MULTIPLE OF FOUR. THE OUTPUT RECORD LENGTH IS SPECIFIED BY THE USER. THE ORIGINAL BLOCKING FACTOR IS RETAINED IN THE OUTPUT FILE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL(META B93H). SIZE:3243 DEC. WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 MINIMUM 16K,3 MAG TAPES.
- 860737 9300 BINARY MAG TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND EDIT A BINARY MAG TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:687 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TWO MAG TAPES
- 860740 9300 SORT/MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE CATALOG NUMBERS 860741 AND 860742 FOR ABSTRACTS OF SORT AND MERGE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 4096-8192 DECIMAL WORDS COMPUTER CONFIGURATION:ANY XDS 9300 COMPUTER WITH A MINIMUM OF 16K FOR FULL CAPACITY VERSION OF SORT WHICH PERMITS FIRST AND/OR LAST PASS OWN-CODE SUBPROGRAMS,OR BK FOR THE LIMITEDCAPACITY VERSION.THREE TAPE UNITS,ONE CARD READER AND ONE TYPEWRITER.
- 860741 9300 SORT
AUTHOR: XEROX
ABSTRACT:
PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR USERS OF XDS 900 SERIES OR 9300 COMPUTER SYSTEMS HAVING AT LEAST THREE MAG TAPE UNITS OR TWO MAGPAK UNITS.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860740, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.
- 860742 9300 MERGE
AUTHOR: XEROX
ABSTRACT:
MERGE, BASICALLY IS AN ABRIDGEMENT OF SORT, ALLOWS PREVIOUSLY SEQUENCED RECORDS FROM AS MANY AS SIX REELS OF MAGNETIC TAPE TO BE MERGED INTO ONE STRING.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860740, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.
- 860743 9300 PAYROLL GENERATOR PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED IN AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
COMMENTS:
SOURCE LANGUAGE:XDS BUSINESS LANGUAGE. SIZE: 6500 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 16K OF STORAGE AND THREE MAGNETIC TAPE UNITS.
- 860749 9300 MODEL 9372 UNBUFFERED LINE PRINTER SUBR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 428 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.
- 860750 9300 MONARCH SYS. UPDATE FOR UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
TO RELEASE AN UPDATE PACKAGE WHICH WILL ADAPT A STANDARD M03 9300 MONARCH SYSTEM TAPE TO THE UNBUFFERED PRINTER. N/A
- 860751 9300 SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT ON THE PRINTER ONE LINE OF THE SYMBOL OUTPUT LISTING.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE: 130 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.

- 860752 9300 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 185 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.
- 860772 9300 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITY OF THE CFE-1 TO OPERATE INDEPENDENTLY FROM THE CENTRAL PROCESSING UNIT (XDS 9300) IN ALL OPERATING AND STORAGE MODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 236 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH CFE-1 AND MAG TAPE.
- 860774 9300 PATCH
AUTHOR: XEROX
ABSTRACT:
THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2550 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860779 9300 DES-1 8K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860780 9300 DES-1 16K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860781 9300 DES-1 24K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860782 9300 DES-1 32K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860784 9300 RTM STAND-ALONE UPDATE
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 9300 RTM SYSOEN TAPES.
COMMENTS:
SOURCE: METASYMBOL, CONFIGURATION: 9300 WITH 8K MEMORY (MINIMUM).
- 860791 9300 DES-1 SYSOEN FOR NAA SYSTEM
AUTHOR: R.E. VOSSLER
ABSTRACT:
THIS PROGRAM GENERATES THE DES-1 SYSTEM FILE ON THE RAD FOR THE NORTH AMERICAN AVIATION HYBRID SYSTEM. THE DES-1 SYSTEM CONSISTS OF BINARY CARD DECKS WHICH ARE READ INTO MEMORY AND THEN DUMPED ONTO THE RAD.
COMMENTS:
THIS PROGRAM REQUIRES THE FOLLOWING CONFIGURATION: 24K 9300 XDS COMPUTER 1/2 MILLION CHARACTER RAD CARD READER THE DES-1 ALSO REQUIRES THE FOLLOWING: MAG TAPE LINE PRINTER TELETYPE DES-1 CONSOLE

- 860796 9300 NASA EDWARDS HYBRID EXECUTION LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE NASA EDWARDS HYBRID EXECUTIVE LIBRARY CONSISTS OF A NUMBER OF FORTRAN IV REENTRANT SUBROUTINES WHICH PROVIDE USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE EXECUTIVE LIBRARY SUBROUTINES MAY BE CALLED BY FORTRAN IV PROGRAMS OR VIA COMMANDS INPUT THROUGH THE TYPEWRITER WHICH ARE EXERCISED BY THE MANUAL EXECUTIVE PROGRAM. THE HYBRID EXECUTIVE LIBRARY CONSISTS OF ALL HYBRID HARDWARE INTERFACE ROUTINES, THE SOFTWARE INTERFACE TO THE MONITOR AND THE INTERRUPTS, INTERVAL TIMER CONTROL, ANALOG-DIGITAL CONVERTERS, SENSE LINES, LOGIC LEVEL OUTPUT LINES, ANALOG MODE CONTROL, ANALOG POTENTIOMETER SETTING, ANALOG VALUE SCANNING, AND ADIOS CONTROL. A FULL SET OF OPERATOR AND HARDWARE ERROR DIAGNOSTICS ARE PROVIDED AT RUN TIME.
- 860798 9300 NORTH AMERICAN AVIATION HYBRID EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE FORTRAN USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMAND. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH SPECIAL HYBRID INTERFACE FOR NAA.
- 860799 9300 NAA DES-1 HYBRID CALL LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE DES-1 HYBRID CALL LIBRARY CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE DES-1 USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A DES-1 PROGRAM. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH DES-1 AND SPECIAL HYBRID INTERFACE HARDWARE FOR NAA.
- 860803 9300 SYMBOL BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
LOAD SYMBOL LOADER FROM SYSTEM TAPE.
- 861000 9300 REAL-TIME MONITOR
AUTHOR: XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATIONS IN A REENTRANT, ONLINE REAL-TIME MODE.
- 861078 9300 USNPOS HYBRID EXECUTIVE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE LIBRARY CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE USER CONTROL OF HYBRID SYSTEM HARDWARE. THE EXECUTIVE FUNCTIONS MAY BE CALLED BY A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMANDS. INCLUDED IN THE LIBRARY ARE FACILITIES FOR INTERRUPT CONTROL, LOGIC LINES OUTPUT, SENSE LINE TESTING, ANALOG POT SETTING, ANALOG VALUE SCANNING, ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTER CONTROL, AND HYBRID SYSTEM MODE CONTROL.
COMMENTS:
THE HYBRID EXECUTIVE LIBRARY IS DESIGNED TO OPERATE UNDER THE XDS 9300 REAL-TIME MONITOR SYSTEM. THE SUBROUTINES IN THE HYBRID EXECUTIVE LIBRARY ARE REENTRANT AND CODED IN XDS 9300 META-SYMBOL. THE USNPOS HYBRID SYSTEM INCLUDES AN XDS 9300 COMPUTER INTERFACED WITH A C15000 ANALOG COMPUTER
- 861079 9300 USNPOS DISPLAY EXECUTIVE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE USNPOS DISPLAY EXECUTIVE LIBRARY CONSISTS OF A SET OF SUBROUTINES AND INTERRUPT PROCESSORS WHICH PROVIDE USER CONTROL OF ALL DISPLAY FUNCTIONS.
COMMENTS:
THE DISPLAY EXECUTIVE LIBRARY, CODED IN META-SYMBOL, IS CALLABLE FROM META-SYMBOL AS WELL AS FORTRAN IV. THE DISPLAY EXECUTIVE OPERATES UNDER THE 9300 RTM SYSTEM AND REQUIRES THE REAL-TIME FORTRAN IV LIBRARY. FUNCTIONS PROVIDED BY THE DISPLAY EXECUTIVE INCLUDE: INITIATION OF OUTPUT SEQUENCE, CHARACTER AND VECTOR GENERATION, EDITING FUNCTIONS, DISPLAY BUFFER MANAGEMENT, CHARACTER AND VECTOR RASTER GENERATION, PROGRAM AS WELL AS OPERATOR CONTROL OF DISPLAY FUNCTIONS, A VARIETY OF INPUT SOURCES FOR DISPLAY DATA. THE ABILITY TO PERFORM THESE FUNCTIONS ON EITHER OF TWO DISPLAY
- 861082 9300 RAD TO MAGNETIC TAPE DUMP
AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION, OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

- 861083 9300 SYMBOL ASSEMBLER (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE SYMBOL ASSEMBLER UNDER 9300 MONARCH SYSTEM, CAT. NO. 860530. ROUTINES UNDER THIS COVER INCLUDE: 860547-SYMBOL LOADER, 860548-SYMBOL PSI, 860549-SYMBOL CSI, 860550-SYMBOL MSI, 860551-SYMBOL PBO, 860552-SYMBOL CBO, 860553-SYMBOL MBO, 860554-SYMBOL TLO, 860555-SYMBOL LLO, 860556-SYMBOL MLO, 860557-SYMBOL S1, 860558-SYMBOL S2, 860559-SYMBOL S3, 860560-SYMBOL M910, 860561-SYMBOL M920, 860562-SYMBOL M9300.
- 861084 9300 USNPOS DISPLAY SUBSYSTEM
AUTHOR: XEROX
ABSTRACT:
THESE PROGRAMS ALLOW OPERATION OF TWO AGT/10 GRAPHIC DISPLAY SUBSYSTEMS IN CONJUNCTION WITH AN XDS 9300. THEY ALLOW THE AGT/10S TO READ TAPES FROM THE 9300 TAPE DRIVES. THEY ALSO ALLOW THE USER TO OUTPUT CONTROL INFORMATION AND TO INPUT AND OUTPUT TEXT AND GRAPHIC BLOCKS TO THE AGT/10S.
COMMENTS:
HARDWARE REQUIREMENTS: AN XDS 9300-ADAGE AGT110 COMPUTER SYSTEM. TWO TAPE DRIVES AND VERSION 801 OF THE 9300 REAL-TIME MONITOR ARE REQUIRED
- 861085 9300 FORTRAN IV LIBRARY 9RDDISC, 9WRDISC
AUTHOR: XEROX
ABSTRACT:
THESE ROUTINES IMPLEMENT THE READ DISK, WRITE DISK STATEMENTS OF FORTRAN IV FOR THE REAL TIME MONITOR. (SEE FORTRAN IV REF MANUAL PAGE 69).
COMMENTS:
A BINARY UPDATE PACKAGE (CAT. NO. 861000-64C01) IS AVAILABLE TO UPDATE THE REAL-TIME MONITOR SYSGEN TAPE (CAT. NO. 861000-85C00). IT CONTAINS, IN ADDITION TO 9RDDISC, VERSIONS OF R'RECUR, 9WRDATA, 9GETSBUFF, AND M'DOIO THAT HAVE BEEN UPDATED TO ACCOMMODATE 9RDDISC.
NOTE ALSO THAT THE SPELLING OF THE WORD DISK IN THE FORTRAN REF. MANUAL (901107) IS NOT CORRECT. THE CORRECT SPELLING IS D I S K , FOR EXAMPLE, READ DISK.
- 870009 940 940 TIME-SHARING SYSTEM DISC DUMP
AUTHOR: XEROX
ABSTRACT:
THE DUMP HAS ALL THE CURRENT MONITOR, EXECUTIVE, UTILITIES PROGRAMS, AND SUBSYSTEMS FILES IN BINARY AND SYMBOLIC. ALSO THERE ARE DESCRIPTIVE FILES ON : 1. MODIFYING 2. PERIPHERALS 3. SYSTEM MAKE 4. NEW FEATURES 5. DISC FILES 6. RELEASE
COMMENTS:
AVAILABLE ON TWO TAPE REELS. NOTE: AN ADDITIONAL MINI-REEL IS REQUIRED FOR THE DISC DUMP/LOAD-2.0 AND DISC SWAP-2.0
- 870010 940 940 WRITE SUBSYSTEMS ON RAD (MSD)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TRANSFERS THE SUBSYSTEMS FROM DISC FILES TO THE RAD.
COMMENTS:
INCLUDED WITH THE SYMBOLIC FILE IS A DETAILED DESCRIPTION FOR GENERATING THIS PROGRAM.
- 870011 940 940 OPERATOR'S EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE OPERATOR'S EXECUTIVE IS COMPOSED OF TWO PARTS: (1) A CONSTANTS AND PART ONE, (2) COMMANDS AND PART TWO. THIS PROGRAM IS USED TO VALIDATE ACCOUNTS, PASSWORDS, USER NUMBERS, LEGAL LOG-IN TIMES, BROADCAST LETTERS, COPY ACCOUNTING DATA TO A FILE, AND COMMANDS THAT ONLY THE OPERATOR CAN ACCESS. THE COMMAND 'HELP' WILL LIST THE ENTIRE AVAILABLE COMMANDS.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC AND BINARY FILES NECESSARY FOR THE GENERATION OF OPERATOR'S EXECUTIVE. INCLUDED IS A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE. NOTE: THIS PROGRAM IS REQUIRED AS PART OF THE OPERATING SYSTEM. CHANGES IN OPERATION OF THE MONITOR AND EXECUTIVE CAN CAUSE THIS PROGRAM TO FAIL.
- 870012 940 940 MAP DISC
AUTHOR: XEROX
ABSTRACT:
MAP DISC IS RESPONSIBLE FOR CLEARING THE RESIDENT BIT MAP FOR ALL DATA BLOCKS WHICH EXIST ON THE DISC AND ARE IN THE MAPPED AREA. THIS AREA IS ONLY ONE FOURTH OF THE DISC. THE PROGRAM READS FILE INDEX BLOCKS AND CHECKS FOR POINTERS INTO THE MAPPED AREA. IF ONE IS FOUND, THE PROGRAM WILL REQUEST THE MONITOR TO CLEAR ONE BIT IN THE BIT MAP. CONFLICTS ARE PRINTED AND THE FINAL PHASE WILL DELETE A FILE INDEX BLOCK.
COMMENTS:
A DETAILED GENERATION PROCEDURE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES. THERE ARE THREE SYMBOLIC FILES AND FIVE BINARY FILES IN THIS PACKAGE

- 870013 940 DISC SWAP
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL COPY THE MONITOR INTO MEMORY. USE OF BREAKPOINTS 2-4 DETERMINE WHAT DISC WILL BE USED TO COPY FROM. BREAKPOINT 1 IS NOW USED TO SELECT EITHER 84K OR 48K AS THE MEMORY SIZE.
COMMENTS:
A UTILITY TAPE IS THE COPY WHICH WILL BE SENT ON REQUEST. NOTE: DISC DUMP/LOAD IS INCLUDED AS PART OF THE UTILITY TAPE.
- 870014 940 940 DISC DUMP/LOAD
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL EITHER COPY DATA FROM THE DISC TO MAGNETIC TAPE OR COPY DATA FROM MAGNETIC TAPE TO DISC. THIS PROGRAM IS DELIVERED ON A UTILITY TAPE REEL IN A STANDARD FILL FORM. NOTE: ALSO INCLUDED IS DSWAP (DISC DUMP/LOAD)
COMMENTS:
A DETAILED GENERATION DESCRIPTION FILE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES.
- 870016 940 940 TIME-SHARING SYSTEM EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE EXECUTIVE IS THE INTERFACE BETWEEN THE 940 TIME-SHARING SYSTEM MONITOR AND THE 940 TERMINAL USER. THE EXECUTIVE IS RESPONSIBLE FOR USER IDENTIFICATION, MAINTENANCE OF USER FILE DIRECTORIES, SUPERVISION OF THE USE OF THE SYSTEM VIA LIMITING ACCESS TO COMMANDS WHICH REQUIRE SPECIAL STATUS. THE EXECUTIVE CONSISTS OF SIX PACKAGES WHICH, WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE EXECUTIVE FUNCTIONS OF THE 940 TIME-SHARING SYSTEM
COMMENTS:
THE EXECUTIVE AND THE MONITOR OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.
- 870017 940 940 TIME SHARING SYSTEM MONITOR
AUTHOR: XEROX
ABSTRACT:
THE MONITOR IS THE SUPERVISOR OF THE USE OF ALL SYSTEM RESOURCES. IT IS RESPONSIBLE FOR SCHEDULING THE USE OF THE CPU, MEMORY MANAGEMENT, I/O DEVICE MANAGEMENT, ALL INTERRUPT PROCESSING, TELETYPE I/O SUPERVISION AND A VARIETY OF USER SERVICES. THE MONITOR CONSISTS OF FOURTEEN PACKAGES WHICH WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE MONITOR FUNCTIONS OF THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THE MONITOR AND EXECUTIVE OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.
- 870018 940 940 TAP
AUTHOR: XEROX
ABSTRACT:
940 TAP IS A TWO PASS TEXT-ORIENTED MACRO ASSEMBLER FEATURING A WIDE RANGE OF CONDITIONAL AND ITERATIVE CAPABILITIES, TOGETHER WITH EXTERNAL LABEL AND OPERATION DEFINITIONS. PARAMETRIC PROGRAMMING CAPACITY IS FURTHER ENHANCED BY NO RESTRICTIONS BEING PLACED UPON THE RECURSIVE INVOCATION AND DEFINITION OF MACROS. TWO FORMS OF OBJECT CODE ARE AVAILABLE: (1) FULLY RELOCATABLE, COMPLETE WITH SYMBOL TABLE FOR INPUT TO DDT; (2) ABSOLUTE SELF-FILLING BINARY.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 TAP, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /TAP-N.0/.
- 870019 940 940 QED
AUTHOR: XEROX
ABSTRACT:
940 QED IS A SOPHISTICATED TEXT EDITOR WHICH ALLOWS ANY SYMBOLIC FILE IN THE 940 SYSTEM TO BE QUICKLY EDITED.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 QED, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /QED-N.0/.
- 870020 940 940 FORTRAN II COMPILER
AUTHOR: XEROX
ABSTRACT:
940 FORTRAN II IS COMPOSED OF THREE PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN AN EXTENDED FORTRAN II SYNTAX INCORPORATING MANY FORTRAN IV FEATURES, SUCH AS N-DIMENSIONAL ARRAYS, GENERALIZED SUBSCRIPT FORMATION, AND MIXED-MODE EXPRESSIONS; (2) A RUN-TIME SYSTEM, CONSISTING OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID; (3) A LIBRARY WHOSE ENTRIES ARE CONDITIONALLY LOADED DEPENDING ON THE NEEDS OF THE USER PROGRAM. THE PROCESSOR RUNS ONLY UNDER TSS-2.0 MONITOR.
COMMENTS:
THE GENERATION PROCEDURE IS GIVEN IN THE SYMBOLIC FILE /FII-N.0/.

- 870021 940 940 DDT
AUTHOR: XEROX
ABSTRACT:
940 DDT IS A HIGHLY INTERACTIVE DEBUGGING TOOL, COUPLED WITH A SOPHISTICATED LOADER, HAVING THE FOLLOWING FEATURES: (1) BREAKPOINTING WHICH ALLOWS THE USER TO INSPECT THE CONDITION OF HIS PROGRAM AT STRATEGIC POINTS AND INTERVALS; (2) BLOCK STRUCTURE MANIPULATION OF SETS OF SYMBOLS BELONGING TO LOGICALLY SEPARATE PROGRAMS; (3) LIMITED ASSEMBLY AND, OPTIONALLY, IMMEDIATE EXECUTION OF INDIVIDUAL INSTRUCTIONS; (4) ASSEMBLY, INSERTION, AND DELETION OF INSTRUCTIONS OR DATA; (5) A VARIETY OF SERVICE FUNCTIONS SUCH AS WORD SEARCHES, RELABELING ALTERATION, CONDITIONAL SAVE AND LOAD OF SYMBOL TABLES, ETC.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 DDT, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /DDT-N.0/.
- 870022 940 940 CONVERSATIONAL FORTRAN
AUTHOR: XEROX
ABSTRACT:
940 CONVERSATIONAL FORTRAN IS COMPOSED OF THREE PARTS: (1) AN INCREMENTAL COMPILER, WHICH ALLOWS THE STATEMENT-BY-STATEMENT PREPARATION OF PROGRAMS WRITTEN IN A LANGUAGE CLOSELY RESEMBLING FORTRAN IV; (2) A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER; (3) A COMMAND PROCESSOR, WHICH PERMITS INTERACTIVE CONTROL OF THE COMPILER AND RUN-TIME SYSTEM, PROVIDING EDIT, DEBUG, AND DIRECT STATEMENT EXECUTION FACILITIES.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CONVERSATIONAL FORTRAN, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /FOR-N.0/.
- 870023 940 940 CAL
AUTHOR: XEROX
ABSTRACT:
XDS CAL IS COMPOSED OF TWO PARTS: (1) AN INCREMENTAL COMPILER AND EDITOR, WHICH ALLOWS THE STATEMENT BY STATEMENT PREPARATION OF PROGRAMS WRITTEN IN AN ALGEBRAIC LANGUAGE CLOSELY RESEMBLING JOSS; (2) A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CAL, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /CAL-N.0/.
- 870024 940 940 BASIC
AUTHOR: XEROX
ABSTRACT:
940 BASIC IS COMPOSED OF TWO PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN A SIMPLE ALGEBRAIC LANGUAGE ON A STATEMENT-BY-STATEMENT BASIS; (2) A RUN-TIME SYSTEM, WHICH CONTROLS EXECUTION OF THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 BASIC, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /BAS-N.0/.
- 870025 940 940 TSS MONITOR, EXEC, AND PROCESSORS (C)
AUTHOR: XEROX
ABSTRACT:
THIS IS A COVER NUMBER FOR ALL THE XDS 940 PROCESSORS, INCLUDING THE MONITOR AND EXECUTIVE. IT INCLUDES THE FOLLOWING PROCESSORS AND UTILITIES: QED-870019, DDT-870021, TAP-870018, BASIC-870024, CAL-870023, FORTRAN II-870020, LIB-870027, FORTRAN II R/T-870028, CONVERTS. FORTRAN-870022, WRITE SUBSYSTEMS-RAD-870010, OPERATORS EXECUTIVE-870011, MAP DISC-870012, EXECUTIVE-870016, MONITOR-870017.
- 870026 940 940 TSS USERS UTILITY PROGRAMS
AUTHOR: L. D. MCDANIEL - XDS
ABSTRACT:
SIXTY-ONE ROUTINES IN THE 940 FILES FORMAT. FILES ARE RETRIEVED USING MAGTAPE HANDLER. THE FOURTH FILE IS THE INDEX TO UTILITY PROGRAMS.
COMMENTS:
THE PROGRAMS ARE USED TO SOLVE RELATED PROBLEMS IN BUSINESS, SCIENCE, AND MATH. ADDITIONAL PROGRAMS DEMONSTRATE 940 SUB-SYSTEMS.
- 870027 940 FORTRAN II LIBRARY FOR THE XDS 940
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF SDS940 FORTRAN II SYSTEM. IT CONSISTS OF LIBRARY ROUTINES WHICH ARE CONDITIONALLY LOADED DEPENDING UPON THE NEEDS OF THE USER PROGRAMS.
- 870028 940 FORTRAN II RUNTIME SYSTEM
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF FORTRAN II 940 SYSTEM. IT CONSISTS OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID.

- 890158 9-SERIES ARCSIN AND ARCCOS FUNCTIONS
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
THIS FORTRAN II SUBROUTINE COMPUTES THE ARC SINE AND ARC COSINE OF A VALUE AND RETURNS THE ANGLE IN RADIANS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 890180. PROGRAM REQUIRES 234 DECIMAL MEMORY LOCATIONS. REQUIRES THE XDS FORTRAN II SYSTEM.
- 890159 9-SERIES FACTORIAL ROUTINE
AUTHOR: SAM H. HARLIN
ABSTRACT:
THIS FORTRAN II SUBROUTINE CALCULATES THE FACTORIAL OF A FIXED POINT VALUE.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00800002. PROGRAM REQUIRES 39 DECIMAL MEMORY LOCATIONS AND THE FORTRAN II SYSTEM.
- 890160 9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
FORTRAN II ROUTINE TO CALCULATE HYPERBOLIC SINE, COSINE AND TANGENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00820001. PROGRAM REQUIRES 38 DECIMAL LOCATIONS FOR MSIN AND HCOS AND 40 DECIMAL LOCATIONS FOR MTAN. TOTAL OF 116 DECIMAL LOCATIONS AND FORTRAN II SYSTEM REQUIRED.
- 890161 9-SERIES POLYNOMIAL ADDITION OR SUBTRACTION
AUTHOR: D. C. BAXTER
ABSTRACT:
ADDS OR SUBTRACTS TWO POLYNOMIALS. ONE POLYNOMIAL MAY BE MULTIPLIED BY A SCALAR DURING THE PROCESS.
- 890162 9-SERIES POLYNOMIAL PRODUCT
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FORM THE PRODUCT OF TWO POLYNOMIALS WHOSE COEFFICIENTS ARE AVAILABLE AS LINEAR ARRAYS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00002. PROGRAM REQUIRES 100 DECIMAL LOCATIONS OF STORAGE. RUNS UNDER THE FORTRAN II SYSTEM.
- 890163 9-SERIES POLYNOMIAL DIVISION, POLYDIV
AUTHOR: BAXTER
ABSTRACT:
CALCULATES THE QUOTIENT AND REMAINDER FORMED ON DIVIDING TWO POLYNOMIALS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00C00003.
- 890164 9-SERIES LINEAR POLYNOMIAL SUBSTITUTION, POLYSUBS
AUTHOR: D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A POLYNOMIAL F(S).
- 890165 9-SERIES RATIONAL POLYNOMIAL SUBSTITUTION
AUTHOR: D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z, $XN(Z)/XD(Z)$, WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A RATIONAL POLYNOMIAL FUNCTION OF S, $P(S)/Q(S)$.
- 890166 9-SERIES SERIES EXPANSION OF RATIONAL POLYNOMIAL
AUTHOR: R. GAGNE, D. C. BAXTER
ABSTRACT:
EXPANDS A RATIONAL POLYNOMIAL INTO A TAYLOR SERIES.
- 890167 9-SERIES CLIMB1 A HILL-CLIMBING SUBROUTINE
AUTHOR: C. M. WOODSIDE
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO FIND THE SET OF ARGUMENTS WHICH MAXIMIZES OR MINIMIZES A FUNCTION, SUBJECT TO CONSTRAINTS ON THE ARGUMENTS OR ON OTHER FUNCTIONS OF THEM.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00007. PROGRAM REQUIRES 2134 DECIMAL LOCATIONS OF MEMORY AND THE FORTRAN II SYSTEM.

- 890168 9-SERIES PATTERN OPTIMIZER
AUTHOR: PAUL G. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM TO MINIMIZE A FUNCTION OF UP TO 5 VARIABLES.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00008. PROGRAM REQUIRES 276 WORDS OF MEMORY. REQUIRES A SUBROUTINE LABELED EVAL, CODING INDICATED IN THE WRITE-UP.
- 890169 9-SERIES BAIRSTOW ROOTFINDER
AUTHOR: D. C. BAXTER
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO CALCULATE THE REAL OR COMPLEX ROOTS OF A POLYNOMIAL EQUATION.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20001 PROGRAM REQUIRES 748 DECIMAL MEMORY LOCATIONS AND SUBROUTINE SQRT.
- 890170 9-SERIES ROOTS OF POLYNOMIALS
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
TO ALLOW INPUT OF THE COEFFICIENTS OF A POLYNOMIAL FROM PAPER TAPE OR TYPEWRITER, AND TO COMPUTE AND TYPE OUT ITS REAL OR COMPLEX ROOTS. THE EFFECT OF AN ACCURACY PARAMETER EPS AND OF A CONVERGENCE LIMIT CAN ALSO BE TESTED.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20002 REQUIRES BAIRSTOW ROOTFINDER PROGRAM (PREV. NO. 00C20001) AND A TOTAL OF 3171 (DEC) MEMORY LOCATIONS
- 890171 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION
AUTHOR: MISS F. T. STOCK - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO EVALUATE ONE REAL ROOT OF A FUNCTION IN THE VICINITY OF AN INITIAL GUESS. THIS METHOD SHOULD BE USED ONLY WHERE OTHER METHODS FAIL AS IT IS NOT TIME EFFICIENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20003 REQUIRES SUBROUTINES (FUNCTION) F(X) AND ABS. 168 (DEC) MEMORY LOCATIONS.
- 890172 9-SERIES LEGENDRE POLYNOMIAL
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE LEGENDRE POLYNOMIAL $P_N(X) = (1/2^{NN}) DN/DXN(X^2-1)^N$ BY THE RECURSION FORMULA $P_{N+1} = P_N X + (N/(N+1))(X P_N - P_{N-1})$.
- 890173 9-SERIES GAMMA FUNCTION
AUTHOR: MISS F. T. STOCK
ABSTRACT:
EVALUATION OF THE FUNCTION $\Gamma(I+F)$ WHERE I IS THE INTEGRAL PORTION OF A NUMBER AND F IS THE FRACTIONAL PORTION, OR ALTERNATIVELY TO COMPUTE THE FACTORIAL OF AN INTEGER.
- 890174 9-SERIES BESSEL FUNCTION J0, J1 Y0, Y1
AUTHOR: MISS F. T. STOCK
ABSTRACT:
EVALUATION OF BESSEL FUNCTIONS OF THE FIRST AND SECOND KIND OF ORDER ZERO AND ONE.
- 890175 9-SERIES REAL EXPONENTIAL INTEGRAL
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM COMPUTES THE REAL EXPONENTIAL INTEGRAL $-Ei(-X) = \int_X^\infty -U/U DU$ FOR ANY REAL ARGUMENT GREATER THAN ZERO BY EVALUATING AN APPROXIMATING POLYNOMIAL.
- 890176 9-SERIES BESSEL FUNCTION KN(X).
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE MODIFIED BESSEL FUNCTION OF THE SECOND KIND FOR INTEGRAL AND HALF-INTEGRAL ORDER.
- 890177 9-SERIES BESSEL FUNCTION-FIRST KIND, ORDER ZERO
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE BESSEL FUNCTION OF THE FIRST KIND, ORDER ZERO, OF A FLOATING POINT ARGUMENT, X.

- 890178 9-SERIES BESSEL FUNCTION SUBROUTINE
AUTHOR:G. V. CONIOLIO - BAUSCH + LOMB
ABSTRACT:
TO COMPUTE THE VALUES OF THE BESSEL FUNCTIONS $J_p(x)$ FOR REAL ARGUMENT x AND THE SET OF ALL INTEGER ORDERS FROM 0 TO n .
- 890179 9-SERIES BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1
AUTHOR:P. VIEILLARD - CAE, CITEC
ABSTRACT:
TO COMPUTE THE FLOATING POINT BESSEL FUNCTIONS, $J_0, J_1, Y_0, Y_1, I_0, I_1, K_0$, OR K_1 , OF A SPECIFIED FLOATING POINT ARGUMENT.
- 890180 9-SERIES GRADIENT MINIMIZATION ROUTINE - FPMIN
AUTHOR:C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FIND THE MINIMUM OF A DIFFERENTIABLE FUNCTION.
- 890181 9-SERIES DEFINITE INTEGRAL EVALUATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE INTEGRAL OF A FUNCTION BETWEEN SPECIFIED LIMITS AND WITH SPECIFIED INTERVALS. THE OPERATOR MUST PROVIDE A FUNCTION $F(x)$ WHICH EVALUATES THE INTEGRAND.
- 890182 9-SERIES DOUBLE INTEGRATION BY SIMPSONS
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE DOUBLE INTEGRAL OF A FUNCTION GIVEN THE INNER AND OUTER LIMITS OF INTEGRATION AND THE NUMBER OF INTERVALS TO BE USED BY APPLYING SIMPSONS RULE. THE OPERATOR MUST PROVIDE A FUNCTION $V(x,y,z)$ WHICH EVALUATES THE INTEGRAND.
- 890183 9-SERIES RUNGE-KUTTA INTEGRATION
AUTHOR:RICHARD C. BOWMAN - XDS
ABSTRACT:
TO PROVIDE A SOLUTION FOR FIRST-ORDER, SECOND-ORDER, OR COMBINATION OF FIRST AND SECOND ORDER DIFFERENTIAL EQUATIONS.
- 890184 9-SERIES SOLUTION OF DIFFERENTIAL EQUATIONS R-K-0
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A PAIR OF FORTRAN II SUBROUTINE SUBPROGRAMS TO ALLOW THE FINITE DIFFERENCE SOLUTION OF A SET OF SIMULTANEOUS, FIRST-ORDER, ORDINARY DIFFERENTIAL EQUATIONS BY THE RUNGE-KUTTA-GILL PROCEDURE. A MAIN PROGRAM IS ALSO INCLUDED AS AN EXAMPLE, WHICH COULD BE USED TO INPUT AND SOLVE COMPLETE EQUATIONS.
- 890185 8-SERIES LAGRANGE INTERPOLATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
GIVEN $N+1$ CORRESPONDING PAIRS OF DATA POINTS, WHERE THE VALUES OF THE INDEPENDENT VARIABLE MAY OR MAY NOT BE EQUIDISTANT, THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA OF INTERPOLATION.
- 890186 9-SERIES POLYNOMIAL CURVE FIT
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE PROGRAM FITS A POLYNOMIAL OF DEGREE LESS THAN 11 THROUGH A SET OF DATA POINTS USING THE METHOD OF LEAST SQUARES. PROVISION IS MADE FOR CHOOSING DEGREE, NUMBER OF POINTS, AND FIRST POINT TO BE USED.
- 890187 9-SERIES LEAST SQUARES POLYNOMIAL
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
PROGRAM READS IN FROM PAPER TAPE OR TYPEWRITER UP TO 200 DATA POINTS. LEAST SQUARES POLYNOMIAL IS COMPUTED AND COEFFICIENTS TYPED OUT. MAXIMUM AND ROOT-MEAN-SQUARE DEVIATION OF THIS CURVE FROM DATA POINTS IS TYPED OUT. DEGREE, NUMBER OF DATA POINTS TO BE USED, AND FIRST POINT TO BE USED ARE TYPED IN.
- 890189 9-SERIES FOURIER COEFFICIENTS PERIODIC FUNCTIONS
AUTHOR:W. B. LENG - TMC
ABSTRACT:
A FORTRAN PROGRAM FOR COMPUTING THE FOURIER SERIES COEFFICIENTS OF A PERIODIC FUNCTION AND THE CURVE DERIVED FROM THEM.

- 890189 9-SERIES FREQUENCY BY PRONY'S METHOD
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES AN APPROXIMATE FREQUENCY COMPUTATION FOR EMPIRIC DATA REPRESENTABLE BY A SINE WAVE.
- 890190 9-SERIES SINE WAVE MONITOR
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A LEAST SQUARE CURVE FIT, INCLUDING THE FREQUENCY, TO A SINE WAVE OF EMPIRIC DATA. ALSO PROVIDES A FOURIER COEFFICIENT RETRIEVAL WHEN ONE USES THE ROUTINE TO SUBTRACT OUT THE LOWER HARMONICS.
- 890191 9-SERIES CURVE/SURFACE FIT ARBITRARY FUNCTION
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
THIS ROUTINE IS USED TO CURVE FIT EMPIRIC DATA TO ANY USER SELECTED COMPUTABLE FUNCTION. BESIDES THE USUAL POLYNOMIAL FITTING, THIS ROUTINE IS ALMOST AS EASILY USED TO CURVE FIT WITH EXPONENTIALS, FOURIER EXPANSIONS, ALSO DATA SMOOTHING, INSTRUMENT CALIBRATION CURVES, DAMPED SINE WAVES, SAWTOOTH WAVES, DOPPLER CURVES, ETC.
- 890192 9-SERIES NON-LINEAR CURVE FIT PROGRAM
AUTHOR:R. E. AUSTIN - NASA
ABSTRACT:
TO DETERMINE TYPE OF CURVE THAT IS REPRESENTATIVE OF PARTICULAR INPUT POINTS AND COMPUTE ADDITIONAL POINTS.
- 890193 9-SERIES MATRIX MULTIPLICATION
AUTHOR:D. C. BAXTER
ABSTRACT:
COMPUTES THE PRODUCT OF TWO MATRIX ARRAYS.
- 890194 9-SERIES REAL MATRIX INVERSION (RMINV)
AUTHOR:H.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.
- 890195 9-SERIES REAL MATRIX MULTIPLY (RMMUL)
AUTHOR:H.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
- 890196 9-SERIES REAL MATRIX TRANSPOSE (RMTRA)
AUTHOR:H.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
- 890197 9-SERIES REAL MATRIX ADDITION (RMADD)
AUTHOR:H.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
- 890198 9-SERIES REAL MATRIX SUBTRACTION (RMSUB)
AUTHOR:H.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES
- 890199 9-SERIES BOOLEAN MATRIX (FLAG PACKING)
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CORP.
ABSTRACT:
SAVES CORE STORAGE WHEN LARGE ARRAYS OF YES-NO FLAGS ARE REQUIRED. FOUR POSSIBLE OPERATIONS (INVERT, SET TO ZERO, SET TO ONE, AND TEST) CAN BE PERFORMED ON A DECISION MATRIX WHICH NEEDS ONLY 1/24TH THE USUAL CORE STORAGE.
- 890200 9-SERIES DETERMINANT EVALUATION
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
COMPUTES THE DETERMINANT OF A MATRIX USING THE METHOD OF TRIANGULARIZATION.

- 890201 9-SERIES MATRIX INVERSION, DETERMINANT CALCULATION
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GAUSS-JORDAN ELIMINATION METHOD IS USED TO INVERT MATRIX AND CALCULATE DETERMINANT. ROW AND COLUMN ARE SEARCHED FOR LARGEST ELEMENT TO BE USED AS PIVOT.
- 890202 9-SERIES SOLUTION OF SIMULTANEOUS EQUATIONS
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE GAUSS-JORDAN ELIMINATION METHOD IS USED TO SOLVE SIMULTANEOUS ALGEBRAIC EQUATIONS. ROW INTERCHANGING IS USED TO PRODUCE A NON-ZERO PIVOT ELEMENT.
- 890203 9-SERIES PRINCIPAL AXES FACTOR ANALYSIS
AUTHOR: SHELDON KLEE - XDS
ABSTRACT:
A PROGRAM THAT EXTRACTS ANY NUMBER OF FACTORS FROM A CORRELATION MATRIX.
- 890204 9-SERIES MATRIX PACKAGE FOR ARITHMETIC OPERATIONS
AUTHOR: W.S. LASOR - XDS
ABSTRACT:
PROVIDES THE USER WITH A SET OF SUBROUTINES ENABLING HIM TO PERFORM ARITHMETIC OPERATIONS ON MATRICES OF ANY SIZE AND TO FACILITATE THE MANIPULATION OF THESE ARRAYS IN STORAGE.
- 890205 9-SERIES GAUSSIAN NORMAL PROBABILITY ORDINATE
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY FUNCTION ORDINATE OF AN ARGUMENT.
- 890206 9-SERIES GAUSSIAN NORMAL PROBABILITY INTEGRAL
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY INTEGRAL OF AN ARGUMENT USING AN APPROXIMATION FORMULA.
- 890207 9-SERIES SUPERCOMPRESSIBILITY FACTORS NATURAL GAS
AUTHOR: TOM HYRICK - TEXAS GAS TRANSMISSION CORP.
ABSTRACT:
A FORTRAN PROGRAM TO CALCULATE AMERICAN GAS ASSOCIATION SUPERCOMPRESSIBILITY FACTORS FOR NATURAL GAS FROM 0 TO 5000 PSIG OVER A RANGE OF -40 TO 240 F.
- 890208 9-SERIES MULTIPLE LINEAR REGRESSION
AUTHOR: P. O. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM FOR MULTIPLE LINEAR REGRESSION. THIS PROGRAM ACCEPTS INPUT DATA AND SETS UP THE NORMAL EQUATION MATRIX, WHICH IS THEN INVERTED IN THE LSQ SUBROUTINE.
- 890209 9-SERIES LEAST SQUARE SUBROUTINE, LSQ
AUTHOR: J. GAINES - XDS
ABSTRACT:
A FORTRAN II SUBPROGRAM TO INVERT THE NORMAL EQUATION MATRIX AND TYPE IN REGRESSION COEFFICIENTS AND OTHER STATISTICAL DATA.
- 890210 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (IRAND)
AUTHOR: J. GAINES - XDS
ABSTRACT:
IRAND IS A FORTRAN FUNCTION SUBROUTINE OF ONE PARAMETER, THE SEED OF A RANDOM NUMBER SEQUENCE. THE VARIABLE I IN THE FUNCTION CALL IRAND (I) IS THE SEED AND IS ORIGINALLY SET BY THE USER. EACH TIME IRAND (I) IS USED, THE RANDOM NUMBER IS LEFT IN I AND IF I IS UNDISTURBED BETWEEN IRAND (I) USES, A SEQUENCE OF FULL, SINGLE PRECISION INTEGERS WITH TOTAL PERIOD OF 224 IS GENERATED. THE SEQUENCE CAN BE RE-INITIALIZED OR CHANGED BY SETTING I TO THE DESIRED VALUE. CALLING SEQUENCE IS IRAND (I). RESULT IS THE RANDOM NUMBER IN I. RANGE OF VALUES IS -8388608 TO +8388607.
- 890211 9-SERIES RANDOM NUMBER GENERATOR
AUTHOR: MICHAEL LINDENMEYER - NASA
ABSTRACT:
A FORTRAN II FUNCTION WHICH GENERATES (A) RANDOM NUMBERS FROM THE UNIFORM DISTRIBUTION, NORMALIZED BETWEEN -1.0 AND +1.0, OR (B) RANDOM NUMBERS TAKEN FROM THE NORMAL (GAUSSIAN) DISTRIBUTION WITH MEAN 0.0 AND VARIANCE 1.0. A FORTRAN TEST PROGRAM IS PROVIDED AS A DEMONSTRATION OF THE USE OF THE PROGRAM AND TO COMPUTE RANDOM NUMBERS AS A CHECK OF THE VALIDITY OF THE ROUTINE.

- 890212 9-SERIES RANDOM NUMBER GENERATOR, RANDU
AUTHOR:BERNARD A. SOBEL - ETHYL CORP.
ABSTRACT:
INITIALLY ENTER THE FUNCTION WITH THE FOLLOWING TYPE STATEMENT: X=RANDU(1). THIS ENABLES THE PROGRAM TO CYCLE SO THAT THE STARTING NUMBERS ARE INDETERMINATE. SENSE SWITCHES 4 AND 3 ARE INITIALLY RESET AND MAY BE SET AT ANY TIME AFTER FIRST ENTRY (IN ORDER OF SSW4 AND THEN SSW3). ONCE USED, THE SENSE SWITCHES ARE NEVER RECALLED AND MAY BE USED FOR OTHER PURPOSES. ALL SUBSEQUENT ENTRIES TO THIS FUNCTION ARE AS FOLLOWS: X= RANDU(2).
- 890213 9-SERIES UNCORRELATED RANDOM NUMBER GENERATOR
AUTHOR:WILLIAM B. KENDALL - JET PROPULSION LABS
ABSTRACT:
A FAST AND SIMPLE ROUTINE FOR THE GENERATION OF UNCORRELATED PSEUDO-RANDOM NUMBERS (47-BITS), UNIFORMLY DISTRIBUTED BETWEEN ZERO AND ONE. THIS ROUTINE IS SELF-LOADING, RELOCATABLE AND IS LOADED BY THE NORMAL FILL PROCEDURE. THE ROUTINE IS ENTERED BY A BRM INSTRUCTION. THE CONTENTS OF THE A AND B REGISTERS ARE DESTROYED AND REPLACED WITH THE NEXT POSITIVE DOUBLE PRECISION 47-BIT PSEUDO-RANDOM NUMBER, THE MOST SIGNIFICANT 23 BITS IN THE A REGISTER, THE LEAST SIGNIFICANT 24 BITS IN THE B REGISTER.
- 890214 9-SERIES PSEUDO-RANDOM NUMBER GENERATOR (RANDX)
AUTHOR:C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GENERATES A SINGLE FLOATING-POINT NORMAL PSEUDO-RANDOM VARIATE, WITH UNIT STANDARD DEVIATION.
- 890215 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)
AUTHOR:J. GAINES - XDS
ABSTRACT:
PROVIDES A RANDOM NUMBER GENERATOR IN THE FORM OF A MACHINE LANGUAGE SUBROUTINE.
- 890217 9-SERIES LINEAR REGRESSION ANALYSIS
AUTHOR:S. KLEE - XDS
ABSTRACT:
DESIGNED AS AN AID IN LINEAR REGRESSION ANALYSIS TO DETERMINE THE BEST FIT OF COMBINATIONS OF DEPENDENT AND INDEPENDENT VARIABLES, WHERE LITTLE IS KNOWN OF THE FUNCTIONAL RELATIONSHIPS, OR OF THE VARIABLES THAT ARE IMPORTANT. A SUPPLEMENTARY PROGRAM IS PROVIDED THAT WILL COMPUTE THE REGRESSION COEFFICIENTS ASSOCIATED WITH SELECTED OUTPUT VARIABLE COMBINATIONS FROM THE ABOVE PROGRAM.
- 890219 9-SERIES FORTRAN II MAGNETIC TAPE I/O ROUTINE
AUTHOR:R.R.ROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
A FORTRAN CALLABLE SUBROUTINE TO PROVIDE I/O CONTROL FOR A MAGNETIC TAPE UNIT, NUMBER 0 THROUGH 7, ON THE W, Y, C, OR D CHANNEL.
- 890220 9-SERIES READ BLOCKED INPUT FROM MAG. TAPE
AUTHOR:MARY SPENCER - UNIV. OF CHICAGO
ABSTRACT:
A SUBROUTINE FOR THE MODIFICATION OF THE FORTRAN SYSTEM WHICH WILL ALLOW THE SYSTEM TO ACCEPT BLOCKED LOGICAL RECORDS AS BCD INPUT.
- 890221 9-SERIES CONVOLUTION & FILTERING UNIT I/O ROUTINE
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
PROGRAM TO FACILITATE INPUT/OUTPUT TO THE XDS CFE-1 UNIT TO COMPUTE (1) THE CORRELATION OF TWO TIME SERIES, (2) THE CONVOLUTION OF A TIME SERIES WITH A FILTER OPERATOR, AND (3)THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.
- 890222 9-SERIES CONVOLUTION,CORR,FILTER., OF TIME SERIES
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
ROUTINE COMPUTES THE CORRELATION OF TWO TIME SERIES, THE CONVOLUTION OF A TIME SERIES WITH A FILTER, OR THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.
- 890223 9-SERIES BLANK PAPER TAPE LEADER GENERATOR
AUTHOR:DR. D. GOSPODNETIC
ABSTRACT:
PUNCHES 12 CHARACTERS OF BLANK PAPER TAPE LEADER.
- 890224 9-SERIES FAST FORTRAN PRINT SUBROUTINE
AUTHOR:JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
INCREASES THE SPEED OF THE XDS FORTRAN PRINT ROUTINE. THIS PROGRAM CHECKS FOR ZONES AND PRINTS ONLY THOSE REQUIRED.

- 890225 9-SERIES OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR: S. KLEE - XDS
ABSTRACT:
PROVIDES FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.
- 890226 9-SERIES PLOT PACKAGE FOR XDS 9175 PLOTTER
AUTHOR: A. SAVITZKY - PERKIN-ELMER
ABSTRACT:
PROVIDES USERS OF XDS 900 SERIES COMPUTERS AND XDS 9175 PLOTTERS (CALCOMP) THE CAPABILITY OF COMPREHENSIVE GRAPHICAL OUTPUT DISPLAY; OR TO USE ANY PART OF THE PACKAGE AS NECESSARY
- 890227 9-SERIES SCOOP TAPE PLOTTING ROUTINE, SCOPL-2
AUTHOR: G. LENTZ - UNIV. OF CHICAGO
ABSTRACT:
PROGRAM TO PLOT TAPES PREPARED BY THE CALCOMP SCOOP PROGRAMMING PACKAGE ON THE XDS ON-LINE PLOTTER.
- 890228 9-SERIES GENERAL GRAPHIC GENERA-PLOTTERTER
AUTHOR: R. T. MACINTYRE - BAUSCH + LOMB, INC.
ABSTRACT:
PROVIDES GENERAL PURPOSE PRODUCTION OF MASTER COPIES OF FORMS, CHARTS, DIAGRAMS, ETC. ON THE CALCOMP PLOTTER.
- 890229 9-SERIES ON-LINE PRINT ROUTINE, PRNLN
AUTHOR: L.A. LITTLETON, UNIVERSITY OF CHICAGO
ABSTRACT:
PRNLN PROVIDES A CONVENIENT CALLING SEQUENCE FORMAT FOR PRINTING ON THE TYPEWRITER AND/OR PRINTER.
- 890232 9-SERIES PLOT PACKAGE WITH LABELING
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
FACILITATES CREATION OF SCALED, LABELED PLOTS. THIS FORTRAN SUBROUTINE COMPUTES NEW VALUES OF VMIN AND VMAX WITH VARIABLE UNITS/IN. SELECTED FROM 1, 2, 4, 5 AND A POWER OF TEN. LONG IS THE DESIRED LENGTH OF THE AXIS IN INCHES AND IVSC IS THE POWER OF TEN FOUND BY THE SUBROUTINE.
- 890233 9-SERIES SEMI-LOG/LINEAR PLOT PACKAGE
AUTHOR: J. DARSIE - HONEYWELL, INC.
ABSTRACT:
FACILITATES PROGRAMMING SEMI-LOG PLOTS IN FORTRAN. A CALL TO A211AXIS SETS UP THE AXIS, DRAWS AND LABELS IT, AND SETS UP A211PLOT. A CALL THEN TO A211PLOT PLOTS THE CURVE.
- 890234 9-SERIES PLOT PACKAGE SPECIAL CHART A03
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE ALLOWS USE OF THE SPECIAL CHART =A03. IT DRAWS THE AXIS, SCALES AS NECESSARY TO MAKE THE DATA FIT THE PAPER, AND SETS UP A200PLOT. THEN A200PLOT SHOULD BE CALLED TO PLOT THE CURVES. THESE SYMBOLS ARE .1 INCH IN SIZE. INTERRUPTS ON THE W BUFFER
- 890235 9-SERIES PLOT PACKAGE - NON-LABELING
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS IS A NONLABELING FORTRAN PLOTTING SUBROUTINE WHICH WILL SET UP FOR PLOTTING AND DO AUTOMATIC SCALING FOR USE WITH A200 PLOT. TO OBTAIN MULTIPLE CURVES ON ONE AXIS (FRAME), ENTER A201 AXIS ONCE AND A200 PLOT ONCE FOR EACH CURVE.
- 890236 9-SERIES POLAR PLOT PACKAGE
AUTHOR: J. DARSIE - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE SETS UP A FRAME FOR A POLAR PLOT BY A CALL TO A212 AXIS AND THEN PLOTS IN A POLAR FASHION BY CALLING THE A212PLOT ROUTINE. IT ALSO LABELS THE AXIS.
- 890237 9-SERIES CALCOMP PLOTTER SUBROUTINE PACKAGE
AUTHOR: W. O. PECK, R. T. MACINTYRE - BAUSCH AND LOMB, INC.
ABSTRACT:
GENERAL PURPOSE PLOTTING SUBROUTINES WITH MINIMUM SPACE REQUIREMENTS AND MAXIMUM OPERATING SPEED.

- 890239 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO MAGNETIC TAPE. LOAD PROGRAM BY STANDARD FILL FROM EITHER CARDS OR PAPER TAPE. BRU TO LOCATION 37675, SET A REGISTER WITH STARTING LOCATION TO BE DUMPED AND B REGISTER WITH ENDING LOCATION, CLEAR HALF AND GO.
- 890240 9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO UNBUFFERED LINEPRINTER.
- 890241 9-SERIES FORTRAN CALCOMP PLOTTER ROUTINE
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIVERSITY
ABSTRACT:
THIS SUBROUTINE IS CALLED FROM A FORTRAN II PROGRAM AND CAN DRAW AXES (LINEAR OR LOGARITHMIC), PLOT TITLES, LABEL AXES AND PLOT EITHER CONTINUOUS LINE PLOTS OR POINT PLOTS.
- 890242 9300 OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR: S. KLEE, XDS
ABSTRACT:
TO PROVIDE FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.
COMMENTS:
COMPUTER CONFIGURATION: XDS 9300 WITH 21 INCH CRT DISPLAY. SOURCE LANGUAGE: META-SYMBOL. STORAGE: 278 DEC
- 890243 9-SERIES XDS 920/930 SYMBOL MNEMONIC TABLE
AUTHOR: XDS - H.B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PROVIDES SYMBOL WITH THE MNEMONIC TABLE OF THE TARGET MACHINE. LOCALIZES OTHER ASSEMBLER FEATURES WHICH ARE ORIENTED SPECIFICALLY TO THE TARGET MACHINE. ESTABLISHES THE RETURN LINKAGE FOR EXIT FROM SYMBOL.
- 890244 9-SERIES COMPUTER ASSEMBLY PROGRAM FOR 2K-910
AUTHOR: JOHN H. OKERLUND - UNIV. OF WASHINGTON
ABSTRACT:
AN ABBREVIATED ASSEMBLY PROGRAM FOR THE XDS 910 WITH 2K CORE MEMORY.
- 890245 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER
AUTHOR: CLIFFORD J. VANDERYACHT - SPARTON ELECTRONICS
ABSTRACT:
COMPILES STATEMENTS DESCRIBING AN ELECTRONIC CIRCUIT WRITTEN IN A BRANCH NOTATION INTO A FORTRAN PROGRAM CONTAINING MATRIX EQUATIONS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4096 WORD OF MEMORY WITH PAPER TAPE READER, AND PUNCH AND CONSOLE TYPEWRITER. PAPER TAPE COMES IN FOUR PARTS
- 890246 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT
AUTHOR: J. E. MCCARRAN - XDS
ABSTRACT:
DESIGNED TO HANDLE BUFFERED MAGNETIC TAPE, LINE PRINTER, CARD READER, OR TYPEWRITER I/O FOR FORTRAN IV AND META-SYMBOL PROGRAMS.
- 890247 9-SERIES FORTRAN SEARCH ARRAY
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
SEARCHES A FIXED-POINT ARRAY FOR A MATCHING ITEM AND RETURNS THE LOCATION OF THE ITEM.
- 890248 9-SERIES SORT SUBROUTINE
AUTHOR: GORDON LENTZ - UNIVERSITY OF CHICAGO
ABSTRACT:
ROUTINE TO SORT AN ARRAY OR ARRAYS OF NUMBERS STORED IN CORE INTO ASCENDING SEQUENCE BASED ON SORT KEY.
- 890249 9-SERIES EDIT, CHARACTER STREAM EDITING PROGRAM
AUTHOR: JACK MACHANIK
ABSTRACT:
TO MORE EASILY EDIT FORTRAN SOURCE TAPES, SYMBOL SOURCE TAPES, AND FORTRAN BCD DATA TAPES, BY CONTENT AS WELL AS LOCATION.

- 890250 9-SERIES LABEL TRACE ROUTINE, L-FORTRANRAN
AUTHOR:PAUL JORGENSEN - AUTOMATIC ELECTRIC LABS
ABSTRACT:
THIS PROGRAM IS A REVISION OF THE LABEL TRACE ROUTINE (SYS160) CONTAINED IN THE FORTRAN LIBRARY.
BREAKPOINT SWITCH 1 IS USED TO PERMIT OR SUPPRESS THE LABEL TRACE AT EXECUTION TIME.
- 890251 9-SERIES REAL TIME FORTRAN OCTAL DUMP SUBROUTINE
AUTHOR:T. H. VIND
ABSTRACT:
PROVIDES AN OCTAL DUMP FOR DEBUGGING
- 890252 9-SERIES MEMORY DUMP FOR 9372 PRINTER
AUTHOR:K. JAMERSON - HONEYWELL, INC.
ABSTRACT:
PRINTS SPECIFIED SECTIONS OF MEMORY, 8 WORDS PER LINE, ON THE 9372 LINE PRINTER. BIT PATTERNS WHICH
REPEAT ARE INDICATED RATHER THAN PRINTED REDUNDANTLY.
- 890253 9-SERIES FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST
AUTHOR:R. F. ULRICH, DOUGLAS AIRCRAFT CO.
ABSTRACT:
GIVES A RUN-TIME SYMBOLIC LISTING OF ANY FORTRAN ROUTINE IN SYMBOL 8 LANGUAGE.
- 890254 9-SERIES SHIFT ROUTINE FOR A AND B REGISTERS
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
SHF POP CONSISTS OF ALS, ARS, BLS AND BRs. THE PACKAGE PROVIDES SINGLE-REGISTER SHIFT INSTRUCTIONS IN
EACH DIRECTION FOR BOTH THE A AND B REGISTERS.
- 890255 9-SERIES HALT AND TRANSFER SIMULATION ROUTINE
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
PROVIDES A POP TO SIMULATE AN INTERRUPT-PROTECTED 'HALT AND TRANSFER' INSTRUCTION.
- 890256 9-SERIES SIMULATION OF SKIP ON COMPARISON INST.
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO, LASR
ABSTRACT:
PROVIDES A POP TO SIMULATE A SINGLE INSTRUCTION 'SKIP IF A LESS THAN OR EQUAL TO M.'
- 890257 9-SERIES SINGLE INSTRUCTION FLAG OPERATION, FLOPO
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
CONSISTS OF 5 POPS WHICH PROVIDE SINGLE INSTRUCTION FLAG SETTING, RESETTNG, AND TESTING FOR WHICH THE
FLAG DOES NOT REQUIRE EXTRA STORAGE.
- 890258 9-SERIES LINE PRINTER PLOTTING PACKAGE
AUTHOR:MRS. PATRICIA GRASSLER, THE MITRE CORP.
ABSTRACT:
ROUTINES FOR PLOTTING DATA ON A LINE PRINTER.
- 890259 9-SERIES GRAPH ROUT FOR THE LINEPRINTER-PLOTTING
AUTHOR:B. BUND, PERKIN-ELMER AND R.R. BOSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
EIGHT SUBROUTINES PROVIDE CAPABILITY FOR ON-LINE GRAPHING USING THE LINE PRINTER. THESE ROUTINES ALLOW
THREE METHODS OF PLOTTING POINTS WITH VERTICAL AND HORIZONTAL AXES WHICH ARE SCALED AND TITLED. THE
AXES ARE ALONG THE LEFTHAND AND BOTTOM EDGES OF THE PAGE.
- 890260 9-SERIES GRAPH ROUTINES FOR LINE PRINTER-PLOTTING
AUTHOR:BARBARA BUND - PERKIN-ELMER CORP.
ABSTRACT:
PROVIDES CAPABILITY FOR ON-LINE PLOTTING USING THE LINE PRINTER
- 890261 9-SERIES TAPE HANDLING ROUTINE - TAPE
AUTHOR:C. A. BURNS - UNIV. OF CHICAGO
ABSTRACT:
A ROUTINE TO PROVIDE CONVENIENT MAGNETIC TAPE HANDLING.

- 890262 9-SERIES TYPEWRITER (STD) LISTING OUTPUT SUBR
AUTHOR: W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
TO OUTPUT ON THE TYPEWRITER (STANDARD SELECTRIC) THE SYMBOL OUTPUT LISTING, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BPT4 CONTROL.
- 890263 9-SERIES TYPEWRITER (15' CARRIAGE) LISTING OUTPUT
AUTHOR: W. B. KENDALL - JPL SUBROUTINE.
ABSTRACT:
TO OUTPUT ON A 15' WIDE CARRIAGE SELECTRIC, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT 4 CONTROL.
- 890264 9-SERIES SET OR DETECT ITH BIT OF A WORD
AUTHOR: MISS G. P. GREEN - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A SUBPROGRAM TO SET OR DETECT THE ITH BIT OF A WORD.
- 890265 9-SERIES CARD READER END OF FILE TEST
AUTHOR: P. J. HELLENSTEIN
ABSTRACT:
FORTRAN SUBROUTINE TO TEST FOR EOF CONDITION ON CARD READER.
- 890266 9-SERIES LINE PRINTER LISTING SUBROUTINE
AUTHOR: W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PERMITS OUTPUT LISTING ON A LINE PRINTER, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT CONTROL.
- 890267 900-SERIES FORTRAN FLOWCHART PROGRAM
AUTHOR: D. PIXLEY, BAUSCH & LOMB, INC.
ABSTRACT:
PRODUCES A FLOWCHART FROM ANY GIVEN FORTRAN II PROGRAM.
COMMENTS:
COMPUTER CONFIGURATION: ANY 900 SERIES COMPUTER WITH CARD READER AND LINE PRINTER. 3179 DECIMAL MEMORY
SOURCE LANGUAGE: FORTRAN II
- 890268 9-SERIES PRINTER UTILITY PROGRAM
AUTHOR: D. PIXLEY - BAUSCH + LOMB
ABSTRACT:
PROVIDES A GENERAL MEANS FOR LISTING CARDS ON A HIGH-SPEED PRINTER WITH A VARIETY OF SPECIAL-PURPOSE OPTIONS WHICH WOULD OTHERWISE HAVE TO BE PROGRAMMED SPECIFICALLY FOR A GIVEN TYPE LISTING.
- 890269 9-SERIES CARD RESEQUENCE - DUPLICATOR (REPRO)
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT IN-HOUSE METHOD OF RESEQUENCING A SYMBOLIC PROGRAM CARD DECK, AND TO PRODUCE A FINAL RESEQUENCED VERSION OF A CARD DECK WITHOUT RELEASING THE DECK TO EAM.
- 890270 9-SERIES LIBRARY UPDATE EXAMPLE
AUTHOR: K. P. AMBROSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
TO PROVIDE A SKELETON FORM, FOR REFERENCE, OF A COMPLETE USERS' FORTRAN LIBRARY PACKAGE INCLUDING ALL CONTROL CARDS NECESSARY TO COMPILE-ASSEMBLE AND INSERT THE BINARY OUTPUT AS THE FIRST ROUTINES IN THE FORTRAN LIBRARY.
- 890271 9-SERIES PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG.
AUTHOR: W. B. KENDALL - JPL TAPE INTERM. OUTPUT SUBROUTINE
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED, IF BPT 3 IS SET, FROM PAPER TAPE (OR TYPEWRITER) TO MAGNETIC TAPE UNIT 1, FROM WHICH THEY ARE READ DURING PASS 2.
- 890272 9-SERIES CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE
AUTHOR: W. B. KENDALL - JPL INTERM. OUTPUT SUBROUTINE (CSI)
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED FROM CARDS TO MAGNETIC TAPE UNIT 1 (BPT 3 SET), FROM WHICH THEY ARE READ DURING PASS 2.

- 890273 9-SERIES BINARY TO DECIMAL CONVERSION
AUTHOR:H.P.BRIAR - AEROJET-GENERAL CORP.
ABSTRACT:
 BID A BINARY TO DECIMAL SUBROUTINE WILL CONVERT THE CONTENTS OF A AND B INTO 7 DECIMAL DIGITS AND
 DECIMAL POINT OR A - SIGN, DECIMAL POINT AND 6 DIGITS. THE CONVERTED BID WILL BE PACKED 2 CH/WD READY
 FOR OUTPUT WITH LEADING ZEROS SUPPRESSED.
- 890274 9-SERIES XDS 92 PAPER TAPE EDITOR
AUTHOR:H. P. BRIAR - AEROJET-GENERAL CORP
ABSTRACT:
 PROPER SETTING OF THE BREAKPOINT SWITCHES WITH AUXILIARY TYPING OF THE NUMBER OF RECORDS TO BE PROCESSED
 ALLOWS REPRODUCTION, LISTING, INSERTION OR DELETION OF SYMBOL SOURCE OR FORTRAN SOURCE STATEMENTS.
- 890275 9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER
AUTHOR:D. C. BAXTER FUNCTION
ABSTRACT:
 COMPUTATION OF AMPLITUDE AND PHASE OF THE RESPONSE OF A LINEAR SAMPLED-DATA SYSTEM TO AN INPUT SINUSOID
 OF FREQUENCY W.
- 890276 9-SERIES INVERSE Z-TRANSFORM
AUTHOR:R. E. GAGNE
ABSTRACT:
 CALCULATION OF THE FIRST MTH+1 TERMS OF THE POWER SERIES INVERSION OF A Z TRANSFORM.
- 890277 9-SERIES D-T-L CIRCUIT DESIGN
AUTHOR:H. B. LENG AND G. ROGOFF
ABSTRACT:
 CALCULATES R1, R2, R3, FAN-OUT AND DISSIPATED POWER FOR THE FAMILIAR D-T-L NAND GATE CIRCUIT, GIVING
 ANSWERS IN EXACT CALCULATED VALUES OR IN COMMERCIALY AVAILABLE STANDARD RESISTANCES FOR WORST-CASE
 CONDITIONS.
- 890278 9-SERIES BASIC CRITICAL PATH PROGRAM
AUTHOR:R. BOHMAN - XDS
ABSTRACT:
 A BASIC PROGRAM THAT CALCULATES THE CRITICAL PATH OF A SPECIFIC PROJECT ON A MINIMUM XDS 900 SERIES
 COMPUTER; ALSO, SLACK TIMES ARE COMPUTED FOR ALL TASKS WITHIN THE PROJECT.
- 890279 9-SERIES U.S.STANDARD EARTH MODEL ATMOSPHERE
AUTHOR:SAM H. HARLIN- XDS ROUTINE FOR 455 LATITUDE.
ABSTRACT:
 CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE AND SPEED OF SOUND AT ANY GIVEN EARTH ALTITUDE,
 AT A LATITUDE OF 45.
- 890280 9-SERIES U.S.STANDARD EARTH ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
 ROUTINE TO CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN
 ALTITUDE AND AT ANY GIVEN LATITUDE.
- 890281 9-SERIES U.S.STANDARD MARS ATMOSPHERE ROUTINE(198
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
 CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE
 WITHIN THE SPHERE OF INFLUENCE OF MARS.
- 890282 9-SERIES U.S.STANDARD VENUS ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
 CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND AT ANY GIVEN ALTITUDE OF
 VENUS' SPHERE-OF-INFLUENCE.
- 890283 9-SERIES CIRCUIT DESIGN ANALYSIS CIRC DC
AUTHOR:R. D. MCNAIR - XDS
ABSTRACT:
 A FORTRAN II BASED SOFTWARE PACKAGE TO PERFORM DC CIRCUIT DESIGN ANALYSIS

- 890284 9-SERIES AIRPLANE LAT-DIR TIME HISTORY
AUTHOR: JAMES L. SAMUELS
ABSTRACT:
SOLVES THE THREE DEGREE-OF-FREEDOM LATERAL-DIRECTIONAL AIRPLANE EQUATIONS OF MOTION, USING FOURTH ORDER RUNGE-KUTTA INTEGRATION AND TYPES A TIME HISTORY. USEFUL FOR CHECKING LAT-DIR PORTION OF ANALOG SIMULATIONS.
- 890285 9-SERIES UTILITIES INDUSTRY PACKAGE
AUTHOR: C. PASTEL AND V. WRAY - SOUTHERN CALIFORNIA EDISON
ABSTRACT:
PACKAGE OF SEVEN ROUTINES TO PROVIDE THE FOLLOWING: (1) GENERALIZED METHOD FOR SOLVING POWER SYSTEM LOAD FLOWS; (2) RATE AND REVENUE EVALUATION; (3) LINE PROFILE SURVEY; (4) VOLTAGE DROP AND LOSS EVALUATION. (5) RULING SPAN CALCULATION; (6) PROBABILITY OF LOSS OF LOAD COMPUTATION; (7) TRANSFORMER HEAT RUN.
- 890286 9-SERIES RPL, A DATA REDUCTION LANG. PRECOMPILER
AUTHOR: FRANK C. BEQUAERT - MITRE CORP.
ABSTRACT:
RPL IS A PRECOMPILER WRITTEN IN FORTRAN II THAT GENERATES FORTRAN II OUTPUT STATEMENTS ON MAGNETIC TAPE. THE PROGRAM ALLOWS THE USE OF A DATA BASE DICTIONARY THAT MAKES IT UNNECESSARY FOR THE USER TO KNOW WHERE WITHIN A MAGNETIC TAPE RECORD PIECES OF DATA ARE RECORDED. RPL PROVIDES A NUMBER OF PROGRAM GENERATION FUNCTIONS WHICH GENERATE AS OUTPUT FORTRAN PROGRAM SEGMENTS THAT PERFORM DATA REDUCTION OPERATIONS.
- 890287 9-SERIES ON-LINE MATHEMATICAL COMPILER
AUTHOR: R. L. SCHWARTZ - XDS
ABSTRACT:
PROVIDES THE USER WITH THE CAPABILITY OF USING HIS XDS 900 SERIES COMPUTER AS A SOPHISTICATED DESK CALCULATOR.
- 890288 9-SERIES LOGICAL, BIT, AND CHARACTER MANIPULATION
AUTHOR: H. PACHON - AUTOMATIC ELECTRIC LABS
ABSTRACT:
A PACKAGE OF ROUTINES TO EXTEND THE FLEXIBILITY OF THE XDS FORTRAN II PROGRAMMING SYSTEM TO INCLUDE THE ENCODING OF NON-NUMERICAL PROGRAMS.
- 890289 9-SERIES LINE PRINTER PLOTTING ROUTINE
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
PROVIDES A PLOT OF A SET OF POINTS WHOSE COORDINATES ARE STORED IN X AND Y ARRAYS.
- 890290 9-SERIES HISTOGRAPH PLOT LINE PRINTER-HSTPLOT
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS SUBROUTINE PLOTS A HISTOGRAPH AND COMPUTES STATISTICAL PARAMETERS OF AN ARBITRARY ARRAY OF FLOATING POINT NUMBERS.
- 890291 9-SERIES WINNIM - PROGRAM TO PLAY NIM
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS IS A DEMONSTRATION PROGRAM THAT ALLOWS THE USER TO PLAY NIM WITH THE COMPUTER.
- 890292 9-SERIES SAMPLE DATA FROM ANALOG INPUT AND STORE
AUTHOR: I. RAUDZIN - NATIONAL RESEARCH COUNCIL.
ABSTRACT:
A FORTRAN II SUBROUTINE TO SAMPLE DATA FROM A SPECIFIED ANALOG INPUT UNDER EXTERNAL CLOCK CONTROL AND STORE IN MEMORY, TWO SAMPLES/WORD. CALCULATES THE SUMS OF THE FIRST FOUR POWERS.
- 890293 9-SERIES BCD CONVERSION, XDS - UNIVAC - XDS
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES BCD CONVERSION BETWEEN THE UNIVAC CHARACTER SET AND THE IBM COMPATIBLE CHARACTER SET USED BY XDS
- 890294 9-SERIES MAG TAPE POSITION ROUTINE
AUTHOR: MISS I. RAUDZINS - NATIONAL RESEARCH COUNCIL
ABSTRACT:
POSITIONS THE MAG TAPE ON UNIT 0 AT THE NTH FILE, AND OPTIONALLY TO SIMULATE A MAG TAPE FILE TO LOAD THAT FILE.

- 890295 9-SERIES INTERPOLATION OR EXTRAPOLATION ROUTINE
AUTHOR: R. M. WELCH - DOUGLAS AIRCRAFT CO.
ABSTRACT:
ROUTINE TO INTERPOLATE OR EXTRAPOLATE. TO RETURN EITHER X AS A FUNCTION OF Y OR Y AS A FUNCTION OF X,
AND A ROUTINE TO READ DATA CARDS IN AND SET UP NECESSARY TABLES.
- 890296 9-SERIES PAPER TAPE DUPLICATOR
AUTHOR: H. P. BRIAR - AEROJET GENERAL CORP.
ABSTRACT:
WHEN THE XDS 92 IS EQUIPPED WITH 60 CS PUNCH AND 300 CS READER, THE PROGRAM FURNISHES A READ TAPE/PUNCH
TAPE OPERATING MODE FOR THE 300 CS READER TO THE 60 CS PUNCH. THIS PROVIDES A DUPLICATE PAPER TAPE.
- 890297 9-SERIES UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT SOFTWARE GRAPHIC PACKAGE (USING THE XDS 9185 GRAPHIC LANGUAGE) FOR PLOTTING ON THE
FOLLOWING FIVE DEVICES: XDS 9185 CATHODE RAY TUBE DISPLAY UNIT, LINE PRINTER, TYPEWRITER, CALCOMP, AND
SC4020.
- 890298 9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK
AUTHOR: D. PIXLEY - XDS
ABSTRACT:
THE ENTIRE SYSTEM ALLOWS THE USER TO CREATE A LINK TAPE PROCESSOR WHICH WHEN FILLED FROM TAPE 0, ACCEPTS
A STANDARD FORTRAN II LINK TAPE FROM TAPE UNIT 2, PLACES EACH LINK ON THE RAD AND ACCEPTS A TWO DIGIT
DECIMAL NUMBER FROM A CARD TO DETERMINE WHICH LINK TO EXECUTE FIRST. SUCCESSIVE LINKS ARE EXECUTED BY
THE CALL LINK(N) OR CALL NEXTLINK FORTRAN II STATEMENTS.
- 890299 9-SERIES SC4020 SUBROUTINES FOR XDS 920/930
AUTHOR: GENERAL DYNAMICS-CONVAIR DIVISION
ABSTRACT:
THE SUBROUTINE PACKAGE IS A SUBSET OF THE STANDARD SC SCORS PACKAGE. MOST OF THE CAPABILITIES AS
DESCRIBED IN THE SC DOC. 9500056 ARE PRESENT IN THE XDS PACKAGE. A MINIMUM OF 16K MEMORY WITH A MONARCH
CONFIGURATION IS NEEDED TO COMPILE AND EXECUTE USING THE PACKAGE. OUTPUT IS A FORMATED SC4020 TAPE
READY FOR PLOTTING.
- 890300 9-SERIES DISK (RAD) HANDLER
AUTHOR: R. MADDEN - CHEVRON
ABSTRACT:
TO PROVIDE INPUT AND OUTPUT TO A DISK ON CHANNEL E (DACC)
- 890301 9-SERIES LABEL TRACE, MODIFIED 160 SYS
AUTHOR: E. A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A PROGRAM THAT INITIALIZES THE OPERATION OF A MODIFIED VERSION OF 160SYS TO PROVIDE: 1. A SELECTIVE
TRACE OF UP TO 10 LABELS AS SPECIFIED BY THE OPERATOR AT RUN TIME. 2. A TRACE OF NO LABELS. 3. A TRACE
OF ALL LABELS.
COMMENTS:
USED BY PROGRAM PACKAGE (160SYS, SELTRA, ALLTRA, NOTRA)
- 890302 9-SERIES SELECTIVE LABEL TRACE, 160SYS
AUTHOR: E. A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A MODIFICATION OF THE STANDARD XDS VERSION OF 160SYS PLUS THREE ASSOCIATED ROUTINES TO PROVIDE A
SELECTIVE TRACE OF STATEMENT LABELS IN A FORTRAN PROGRAM.
COMMENTS:
REQUIRES SUBROUTINE TRACE.
- 890303 9-SERIES INSPECTION/CORRECTION BY TYPEWRITER
AUTHOR: D. DUNN, S. SKLAR
ABSTRACT:
THE PROGRAM ALLOWS INSPECTION AND/OR CORRECTIONS OF MEMORY LOCATIONS BASED ON TYPEWRITER INPUT.
- 890304 9-SERIES FORTRAN MEMORY SAVE ON MAG TAPE
AUTHOR: DR. K. DAWSON - UNIV. OF ALBERTA
ABSTRACT:
DUMP FORTRAN L OR REAL TIME FORTRAN MEMORY ON A MAG TAPE WITH OPTIONS FOR DUMPING COMMON AND RUN TIME.
COMMENTS:
SEPARATE TAPES ARE PROVIDED FOR FORTRAN L AND REAL TIME FORTRAN

- 890305 9-SERIES B>SORT-BUSINESS LANGUAGE SORT ROUTINE
AUTHOR:L.R. BRENTON - DOUGLAS SPACE CENTER
ABSTRACT:
XDS B>SORT WAS MODIFIED TO PRESERVE THE ORIGINAL SORT SEQUENCE, THUS PROVIDING FOR MORE THAN ONE LEVEL OF SORTING. I.E. MAJOR, INTERMEDIATE, MINOR.
- 890306 9-SERIES FORTRAN CARD READ SUBROUTINE (216 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
UPON READING A CARD CONTAINING A ~ IN THE FIRST COLUMN, PROGRAM CONTROL IS RETURNED TO MONARCH.
COMMENTS:
REVISION OF XDS 216 SYS
- 890307 9-SERIES MUSIC BOX
AUTHOR:E.A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM WHICH ENABLES THE COMPUTER TO READ MUSIC IN CODED FORM FROM PUNCHED TAPE AND THEN TO PLAY IT.
COMMENTS:
REQUIRES SOME HARDWARE MODIFICATION.
- 890308 9-SERIES FORTRAN LABEL TRACE POP (160 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
THIS PROGRAM IS USED TO GIVE A CONDITIONAL LABEL TRACE OF A FORTRAN PROGRAM AND PACKS THE LABELS AT 20/LINE.
COMMENTS:
REVISION OF XDS 160 SYS POP.
- 890309 9-SERIES TIC-TAC-TOE ROUTINE
AUTHOR:A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM FOR PLAYING TIC-TAC-TOE WITH THE COMPUTER.
- 890310 9300 FORTRAN EXTENDER LIB.-BIT HANDLING & I/O
AUTHOR: UNIVERSITY OF DELAWARE
ABSTRACT:
THIS PACKAGE OF LIBRARY ROUTINES PROVIDE ADDITIONAL CAPABILITY TO THE FORTRAN USER. THEY INCLUDE CHARACTER MANIPULATION, BIT MANIPULATION, INPUT/OUTPUT, AND TIMING.
- 890313 9-SERIES FAST FOURIER TRANSFORM--FOUR0
AUTHOR:N. BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890314 9-SERIES FAST FOURIER TRANSFORM--FOUR0
AUTHOR:NORMAN BRENNER MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890315 9-SERIES FAST FOURIER TRANSFORM--FOUR2
AUTHOR:NORMAN BRENNER - MIT
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890316 9-SERIES FAST FOURIER TRANSFORM--FOUR1
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890317 9-SERIES FAST FOURIER TRANSFORM--FOR20
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX ARRAY ON DESK OR DRUM WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

- 890318 900-SERIES CIRCUIT DESIGN ANALYSIS - CIRC-AC
AUTHOR: XEROX
ABSTRACT:
A GENERAL PURPOSE PACKAGE FOR CIRCUIT DESIGN ANALYSIS. CIRC-AC ALLOWS QUICK AND ACCURATE ANALYSIS OF THE AC (SMALL SIGNAL, SINUSOIDAL DRIVE) PERFORMANCE OF CIRCUITS CONTAINING MANY PASSIVE OR ACTIVE COMPONENTS. CIRC-AC HAS A STORED MODEL FOR TRANSISTORS THAT IMPLEMENTS TWO POLE CURRENT DEPENDENCE UPON FREQUENCY. CIRC-AC DOES NOMINAL SOLUTIONS, FREQUENCY ITERATION SOLUTIONS, AND AUTOMATIC OPEN LOOP SOLUTIONS. CIRC-AC HANDLES LARGE CIRCUITS (OVER 50 NODES) AND PLOTS PERFORMANCE CURVES ON THE LINE-PRINTER. CIRC-AC HAS DEPENDENT CURRENT SOURCE MODELS AND VOLTAGE SOURCE MODELS AND EASILY IMPLEMENTS Y AND H EQUIVALENT CIRCUITS.
COMMENTS:
CIRC-AC IS A FORTRAN + SYMBOL PROGRAM THAT OPERATES AS A LINKED PROGRAM. CIRC WORKS EFFECTIVELY ON A 16K MEMORY MACHINE (ASSUMED IN THE RELEASE). A SMALL VERSION CAN OPERATE ON 12K. FOUR MAG TAPES ARE IDEAL. THREE MAG TAPES ARE GOOD, AND TWO MAG TAPES COULD SUPPORT A WEAK VERSION WITH ANKWARD OR NO PLOTTING. A CARD READER AND LINE PRINTER ARE IDEAL. CIRC-AC OPERATES ON ANY 900-SERIES COMPUTER.
- 890320 92 XDS 92 FORTRAN IV COMPILER
AUTHOR: COMPAGNIE INTERNATIONALE POUR L'INFORMATIQUE
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION OF PROGRAMS WRITTEN IN FORTRAN IV.
- 890329 900-SERIES SEMILOG PLOTTING ROUTINES
AUTHOR: BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
SEMIHULT - DRAWS A LINEAR Y-AXIS AND LOGARITHMIC X-AXIS AND PLOTS UP TO 8 CURVES ON THE SAME GRAPH. SEMIAXI - DRAWS A LINEAR Y-AXIS AND A LOGARITHMIC X-AXIS. REPLTZ - THIS SUBROUTINE PLOTS UP TO 10 CURVES ON THE AXES PREVIOUSLY DRAWN BY SEMIAXI.
- 890330 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE
AUTHOR: MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PACKAGE FOR 8 VECTOR PLOTS
COMMENTS:
LANGUAGE: SYMBOL ADDITIONAL INFORMATION: INCLUDES SUBROUTINES: PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.
- 890331 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE
AUTHOR: MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF-LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PLOTTING PACKAGE FOR 24 VECTOR PLOTS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: SYMBOL SYSTEM: MONARCH. ADDITIONAL INFORMATION: INCLUDES SUBROUTINES: PLOT, PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.
- 890332 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE
AUTHOR: JOHN DOLS, MOTOROLA, INC.
ABSTRACT:
WORD ORIENTED FUNCTIONS AND SUBROUTINES SUBROUTINE FORM WHICH CALLS FUNCTION MULT, FUNCTION IPART, AND FUNCTION IPARTA, ALLOWS MULTIPLE VARIABLE STORAGE IN INTEGER WORD FORMAT. THE BIT CONFIGURATION TO BE USED BY THE VARIABLES MUST BE SPECIFIED
BIT ORIENTED FUNCTIONS AND SUBROUTINES, FUNCTION AIF, SUBROUTINES EXC, FILL, MUM, AND MUT ALL ARE CALLED USING SEQUENCE: NAME (ARG1, ARG2, ARG3)
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORT/SYMB SYSTEM: MONARCH
- 890333 900-SERIES SUBROUTINE SLZDEQ
AUTHOR: J. HERRELL - MOTOROLA
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS COMPLEX EQUATIONS.
COMMENTS:
PROGRAM TYPE: FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH
- 890334 900-SERIES NOPRINT, READ AND REREAD PACKAGE (10)
AUTHOR: JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
THE NOPRINT, READ, AND REREAD PACKAGE ALLOWS MANIPULATION AND ING THE PREVIOUS DATA TO BE MANIPULATED. (AS IN 'DECODE'). NOPRINT INHIBITS THE NEXT PRINT STATEMENT, ALLOWING REFORMATTING (AS IN 'ENCODE'). STATEMENT, ALLOWING REFORMATTSUBROUTINE READ UTILIZES INTERLACE DURING I/O, ALLOWING COMPUTATION DURING I/O.
COMMENTS:
PROGRAM TYPE: FORT SUB LANGUAGE: METASYMBOL SYSTEM: MONARCH STORAGE: 56WORDS DOC. PAGES: 13 DATE: 11/26/69

- 890335 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES.
AUTHOR:JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
ALLOW FORTRAN TO READ OR WRITE RECORD BLOCKS OF ANY LENGTH IN BCD OR BINARY ON MAGNETIC TAPE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE: DOC.PAGES:12 DATE:11/26/69
- 890336 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE
AUTHOR:JOHN DOLS - MOTOROLA
ABSTRACT:
PERFORMS DESCENDING OR ASCENDING SORTS ON BCD, INTEGER, OR REAL ARRAYS. PROGRAM TYPE:FORT SUB LANG:
SYMBOL SYSTEM:MONARCH STORAGE:202 DOC.PAGES:12 DATE:11/26/69.
- 890337 900-SERIES PACKING AND UNPACKING OF FLOATING POINT
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
A CONVERSION MEDIA BETWEEN DOUBLE AND SINGLE PRECISION FLOATING POINT NUMBERS - CONSERVES STORAGE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:24 DOC.PAGES:3 DATE:11/26/69
- 890338 900-SERIES END-OF-FILE TEST
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
TESTS FOR END-OF-FILE ON TAPE WRITTEN IN EITHER MODE AND BRANCHES TO SOME SPECIFIED STATEMENT WHEN EOF
FOUND:
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN SYSTEM:MONARCH STORAGE:21 DOC.PAGES:2 DATE:11/26/69
- 890339 900-SERIES END-OF-PAGE TEST ROUTINE
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
TESTS LOCATION OF PRINTER TO DETERMINE IF PRINTER IS READY TO GO TO A NEW PAGE
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:9 DOC.PAGES:2 DATE:11/26/69.
- 890340 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
FORTRAN SUBROUTINES ALLOWING THE USER TO SKIP A SPECIFIED NUMBER OF FILES OR RECORDS EITHER FORWARD OR
BACKWARD
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH STORAGE:126 DOC. PAGES:6 DATE:11/26/69
- 890341 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
ALLOWS THE USER TO COUNT THE RECORDS IN A FILE, OR THE FILES ON A MAGNETIC TAPE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:SYMBOL SYSTEM: STORAGE:85 DOC.PAGES:4 DATE:11/26/69
- 890342 900-SERIES TAPE LABEL AND POSITIONING
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
SUBROUTINES CONSTRUCT AND RECOGNIZE LEVEL 1 MONARCH LABELS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:28 WORDS DOC.PAGES:7 DATE:11/26/69
- 890343 900-SERIES ERROR
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
A FORTRAN SUBROUTINE WHICH ALLOWS PROGRAMMED INTERVENTION ON ANY FORTRAN II RUNTIME ERROR NORMALLY CAUS-
ING AN ERROR NOTIFICATION.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:71WORDS DOC.PAGES:6 DATE:11/26/69
- 890344 900-SERIES PLOTTER SUBROUTING BLOWUP
AUTHOR:RON KOILE - MOTOROLA INC.
ABSTRACT:
ENLARGES A PORTION OF A CURVE THAT IS DIFFICULT TO READ WHEN PLOTTED BY 'CALPLOT' (CAT NO 890350)
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES CALPLOT -890350

- 890345 900-SERIES HISTPRINT AND HISTPLOT
AUTHOR:MOTOROLA, INC.
ABSTRACT:
PROCESS RAN DATA INTO HISTOGRAM REPRESENTATIONS OF FREQUENCY VERSUS INTERVAL ACCORDING TO SPECIFICATION.
HISTPRINT OUTPUTS ON THE LINE PRINTER WHILE HISTPLOT OUTPUTS ON THE CALCOMP PLOTTER. PLOTTING REQUIRES
THREE TIMES AS MUCH COMPUTER TIME AS PRINTING.
COMMENTS:
PROGRAM TYPE:FORT.SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:12 DATE:11/26/69.
REQUIRES PLOT-CAT NO 890330 SYMBOL CALCOMP SCOOP PACKAGE SORT 890336
- 890346 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON LINE-PRINTER USING 8-1/2" X 11" PAPER. IT LABELS ALL AXES AND PRINTS A
TITLE.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:9 DATE:11/26/69
- 890347 900-SERIES PROBABILITY FUNCTIONS - ERF, ZGAUSS, P
AUTHOR:JIM HERRELL - MOTOROLA INC.
ABSTRACT:
ERF-RETURNS VALUE OF ERROR FUNCTION FOR POSITIVE VALUES OF X. PROBFUNC-RETURNS VALUE OF NORMAL
PROBABILITY INTEGRAL. ZGAUSS-INVERSE OF PROBFUNC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:76,83,96 DOC.PAGES:7 DATE:11/26/69
- 890348 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
SEMIREV DRAWS THE AXES FOR A SEMILOG PLOT THAT HAS THE Y-AXIS LOGARITHMIC. THE REPLOTT4 PLOTS UP TO 10
CURVES ON AXES GENERATED BY SEMIREV.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:7 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES SUBROUTINES: PLOT 890330, LOGA 89035L, LOGSCALE 890353, PLUS CACCOMP
ROUTINES:SCALE, CLRPLT, LINE, SYMBOL, AXIS
- 890349 900-SERIES STATPAK-STATISTICAL PACKAGE
AUTHOR:BRETT VALIQUEY - MOTOROLA INC.
ABSTRACT:
STATPAK IS A PACKAGE DESIGNED TO ANALYZE, SUMMARIZE AND STANDARDIZE RELIABILITY DATA. PROGRAMS INCLUDED:
LINK 1 THRU LINK 10 NISTPRINT INPLOT
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH
ADDITIONAL INFORMATION:SUBROUTINES REQUIRED: AIF(890332) COMPARE, NOPRINT(890333), HISTPRINT (890345),
REREAD (890334), ALOG10, LINK, NEXTLINK, SORT, INPLOT, ALOG, COS, SIN, IBCZ, CALPLOT, SEMILOG, AMIN,
AMAX, ABS, FLOAT.
- 890350 900-SERIES GENERAL PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
PLOTS ONE OR TWO CURVES ON 10" X 7" AXES WITH TITLE AND AXIS LABELS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:6 DATE:11/26/69
REQUIRES CALCOMP ROUTINES: SCALE, PLOT, AXIS, SYMBOL, LINE.
- 890351 900-SERIES SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON 10" X 7" AXIS, WITH X-AXIS LOGARITHMIC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:5 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES PROGRAM CAT NO 890353 - LOGSCALE, 890352 - LOGAXIS PLUS CALCOMP
PLOTTING ROUTINES.- LOGSCALE, 890352 - LOGAXIS
- 890352 900-SERIES LOGAXIS PLOTTING SUBROUTINE
AUTHOR:R. KOLE, MOTOROLA
ABSTRACT:
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER OF 10
INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: 11/26/69 REQUIRES: PROGRAMS FROM CALCOMP PACKAGE - PLOT, TIC, WHERE.
COMMENTS:
SYMBOL, WHERE, NUMBER.
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER 10
INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:4 DATE:11/26/69
REQUIRES: PROGRAMS FROM CALCOMP PACKAGE PLOT, TIC, WHERE, SYMBOL, WHERE, NUMBER

- 890353 900-SERIES PLOTTING SUBROUTINE LOGSCALE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
CONVERTS VALUES OF A DATA ARRAY TO LOG FORM. USED IN PLOTTING ON LOG PAPER.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
- 890354 900-SERIES COMPLEX ARITHMETIC FUNCTIONS
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
FUNCTIONS USED FOR COMPLEX ARITHMETIC MAGNITUDE AND ANGLE; REAL AND IMAGINARY CONVERSIONS;
MULTIPLICATION, DIVISION, ADDING AND SUBTRACTING.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE: FORTRAN II SYSTEM:MONARCH STORAGE:8 DOC.PAGES:15 DATE:11/26/69
- 890355 900-SERIES BCD CONVERSION OF NUMERIC DATA
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
CONVERSION OF FIXED OR FLOATING POINT NUMERIC DATA TO A4 OR A8 FORMATS AS REQUIRED.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:197 DOC.PAGES:10 DATE:11/26/69
- 890356 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
SUBROUTINES USED TO ERASE MAGNETIC TAPE TO A SPECIFIED LENGTH.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORT II SYSTEM:MONARCH STORAGE:133 DOC.PAGES:5 DATE:11/26/69
- 890377 900-SERIES SUBROUTINE RE20EQ
AUTHOR:J. HERRELL, MOTOROLA INC.
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS EQUATIONS WITH REAL COEFFICIENTS AND 20 UNKNOWNNS.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:6 DATE:12/04/69
- 890378 900-SERIES SUBROUTINE DASHPLOT PLOTTER
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS A DASHED LINE FROM LOCATION OF PEN AT THE TIME OF CALL TO THE POINT(X,Y).
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:2 DATE:11/26/69.
REQUIRES CATALOG NUMBER 890330 PLOT
- 890379 900-SERIES LINEAR PLOTTING PACKAGE
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
PLOTS UP TO 10 CURVES ON LINEAR, LABELED AXIS. CONSISTS OF THREE SUBROUTINES-LINEAR, REPLOT 1, LINAXI.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:11 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRE PLOTTING PACKAGE FROM CALCOMP AND CATNO 890331 OR EQUIVALENT.
- 890380 900-SERIES ALPHAXIS PLOTTING ROUTINE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS AXIS OF SPECIFIED LENGTH AND ANNOTE WITH LABELS INSTEAD OF NUMBERS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: USES CATALOG NO 890331 AND CALCOMP ROUTINE SYMBOL
- 890384 900-SERIES FORTRAN PRECOMPILER FORT II-FORT IVH
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
THE PRECOMPILER CONVERTS FORTRANII PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS
CONVERTING FORTRAN II NEGATIVE DO LOOPS TO AN EQUIVALENT POSITIVE DO, AND FLAGS IRREGULARITIES WHICH ARE
NOT CONVERTIBLE.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRANII SYSTEM:MONARCH STORAGE:7537 DOCU.PAGES:2 DATE:
10/10/70 THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.

- 890524 940 940 TELETYPE PLOT ROUTINES
AUTHOR: JOHN ALSTON, XDS
ABSTRACT:
940 FORTRAN II PLOTTING ROUTINES (TELETYPE PLOTTING). PLOTTING IS DONE ON A 51 X 51 CHARACTER GRID.
- 890525 900-SERIES NODE OPTIMIZATION ROUTINE
AUTHOR: D. MACNAK, MOTOROLA, INC.
ABSTRACT:
DECREASES THE SIZE OF THE MATRIX AS GENERATED BY CIRC. THIS IS DONE RENUMBERING THE NODES AND PRINTING A CONNECTION LIST.
- 890526 920 REAL-TIME FORTRAN RUN-TIME DEBUG
AUTHOR: J.W. SCHWARTZENBERG, LEEDS AND NORTHRUP
ABSTRACT:
A RUN-TIME DEBUG SUBROUTINE FOR USE WITH REAL-TIME FORTRAN II.
- 890527 92 DDT-92 DEBUGGING ROUTINE
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
AN IN-CORE DEBUGGING PROGRAM OFFERING A COMPUTE-AND-HALT ROUTINE, DIRECT OCTAL OR SYMBOLIC I/O TO AND FROM CORE VIA TYPEWRITER, SYMBOLIC REFERENCING OF STORAGE, PAPER-TAPE SAVE OF THE LABEL TABLE AND PRODUCTION OF A SELF-FILLING, SELF-STARTING PAPER-TAPE OF THE PROGRAM IN CORE.
- 890528 910 CONVERSATIONAL FUNCTIONAL ASSEMBLER
AUTHOR: GERALD CAHILL, RPFTP, EDWARDS, CALIFORNIA
ABSTRACT:
THIS PROGRAM WAS WRITTEN TO ALLOW ENGINEERS AND MATHEMATICANS TO USE THE XDS 910 (OR WHAT YOU) AS THEY WOULD A MEMORY TYPE OF DESK CALCULATOR WITH THE ADDITIONAL CAPABILITY OF BUILT IN FUNCTIONS AND AN INCREASE OF PRECISION. THIS PROGRAM ALSO SERVES TO INTRODUCE ASSEMBLY LANGUAGE PROGRAMMING TO THOSE INTERESTED IN GETTING CLOSER TO THE MACHINE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN II STORAGE: 8K DOC. PAGES: 45
- 890529 900-SERIES PRINTX-PRINTER SUBROUTINE
AUTHOR: D.F. KOENIG, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
PRINT VARIABLE LENGTH RECORDS (120 CHARACTERS MAXIMUM OUTPUT) ON 9372 UNBUFFERED LINE PRINTER FROM VARIABLE-LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.
- 890530 900-SERIES PUNCHX PUNCH SUBROUTINE
AUTHOR: D.F. KOENIG, BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
TO PUNCH VARIABLE LENGTH (80 CHARACTERS MAXIMUM) PAPER TAPE RECORDS FROM VARIABLE LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.
- 890538 92 TABLCON
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
A PROGRAM FOR CONVERTING THE PUNCHED MEMORY MAP FROM *QBLDR-DD* TO A PUNCHED SYMBOL TABLE ACCEPTABLE FOR READING INTO *DDT-92*. IT WILL ADDITIONALLY LIST THE MAP ON THE CONSOLE TYPEWRITER IN BOTH ALPHABETIC AND ADDRESS VALUE SEQUENCE FLAGGING ANY UNDEFINED REF ITEMS FOUND DURING READ-IN OF THE MAP.
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 017341
- 890539 92 QBLDR DD-OPT PUNCH FOR INPUT TABLCON
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
A MODIFIED VERSION OF QBLDR (XDS PROGRAM NO. 720004) OFFERING: OPTIONAL PUNCHING OF THE MAP FOR INPUT TO THE PROGRAM *TABLCON*, NO LOADING OF PROGRAMS FROM CARDS, THE AUTOMATIC INITIALIZATION OF SCRATCHPAD FOR ITSELF AFTER FILLING OR USER CALL.
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 00844
- 890540 930 MONARCH SYSTEM UPDATE
AUTHOR: SALLY BRECKENRIDGE, UNIV. OF MICHIGAN
ABSTRACT:
UPDATE (850032) AND BOOTSTRAP (890031) COMPRISE THE SYSTEM UPDATE PROGRAM TO CREATE NEW MONARCH SYSTEM TAPES AND TO UPDATE EXISTING SYSTEM TAPES. UPDATED FROM A PROGRAM DEVELOPED BY BARRY MACRAE.

- 890541 930 A GENERAL MAG TAPE ROUTINE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
A GENERAL EASY-TO-USE MAGNETIC TAPE ROUTINE FOR THE 930. DEVELOPED FROM A PROGRAM BY DONALD WYCHE.
- 890542 930 EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
PROVIDES A METHOD FOR UPDATING SOURCE PROGRAMS ON MAGNETIC TAPE. UPDATED FROM A PROGRAM DEVELOPED BY DONALD WYCHE AND BARRY MACRAE.
- 890548 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR
AUTHOR:J.W. LAYLAND, JET PROPULSION LABORATORY
ABSTRACT:
REGEN IS A PROGRAM FOR TRANSLATING BETWEEN THE XDS 900 SERIES UNIVERSAL BINARY LANGUAGE AND A SYMBOLIC EQUIVALANT. THE PROGRAM OPERATES UNDER A BASIC MONARCH SYSTEM WITH ONE SCRATCH TAPE AND USES THE SYSTEM INPUT/OUTPUT ASSIGNMENTS. BREAKPOINTS 3 AND 4 SELECT THE PRODUCTION OF EITHER A LIST OUTPUT OR AN ASSEMBLABLE SYMBOLIC DECK OUTPUT. EXTERNAL REFERENCE AND DEFINITION ITEMS IN THE BINARY TEXT PROVIDE NAMES AND MAKE THE REGENERATED TEXT AS CLOSE AS POSSIBLE TO THE ORIGINAL SOURCE.
COMMENTS:
ADDITIONAL INFORMATION:NEEDS 1 SCRATCH TAPE.
- 890588 900-SERIES CROSS REFERENCE FOR FORTRAN PROGRAMS
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
CROSS REFERENCE-LABEL, SUBROUTINE, VARIABLE, BY LINE NUMBER PRINTS FORTRAN PROGRAM, AS IT IS INPUT FROM THE CARD READER, ON THE LINE PRINTER. PRINTS TABLES FOR REFERENCE FOLLOWING LISTING.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:1 DATE:06/01/70. ADDITIONAL INFORMATION:FUNCTIONS INCL. ICOMP,NXTANC. SUBROUTINES INCL. VSCAN, CREF, READCD, READTP, PRINTCD, INPUT, OUTPUT, LFIELD, LSCAN, CRUNCH, SCAN
- 890663 920 SHORT RELOCATING LOADER FOR 920/930
AUTHOR:A. MOFFET, CALTECH
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE OBJECT PAPER TAPES IN STANDARD BINARY FORMAT. THIS LOADER REPLACES 000019 AND IS SHORTENED TO USE LOCATIONS 000 THROUGH 077 ONLY. THUS IT DOES NOT DESTROY THE POP LINKAGE TABLE AS DOES 000019. THE|STANDARD CONSTANTS| ARE OMITTED.
COMMENTS:
LANGUAGE:SYMBOL DOCU.PAGES:1
- 890664 920 SATFIX-SATELLITE ANGLE & RANGE COMPUTE
AUTHOR:R.W. GREAVES, RAYTHEON SERVICE CO.
ABSTRACT:
PROGRAM TO COMPUTE ANGLE AND RANGE OF A SATELLITE TO DIRECT A TRACKING SENSOR FOR ACQUISITION PURPOSES. REQUIRES BO/BI DEVICE, FORTRAN RUNTIME AND KEYBOARD PRINTER. COMMUNICATION WITH PROGRAM IS WRITTEN TO BE SELF-EXPLANATORY. PROGRAM CAN BE MODIFIED TO WRITE INFORMATION COMPUTED TO AN INPUT FILE TO BE READ INTO THE SENSOR DRIVE PROGRAM
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:948 DOCU.PAGES:2
- 890668 900-SERIES MUSIC - FOR 910/920
AUTHOR:C. KENDALL, XDS
ABSTRACT:
PAPER TAPE (PLUS AN FM RECEIVER) COMBINE WITH THE 910/920 TO PRODUCE A MEDLEY OF OVER 25 SONGS. ALSO ALLOWS YOU TO ADD TO REPERTOIRE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE: MACHINE SYSTEM: S/A STORAGE:2000
- 890669 900-SERIES 300 ELECTRONIC CIRCUIT ANALYSIS (ECAP)
AUTHOR:J. HERRELL, MOTOROLA
ABSTRACT:
ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OR OUTPUT DESIRED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:7118 DOCU.PAGES:4
COMMENTS: 900 SERIES MONARCH WITH 12K CORE.

- 890772 910 910 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AN POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890773 920 920 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890774 925 925 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890775 930 930 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890776 9-SERIES FORTRAN FLOWCHARTER
AUTHOR:P. CLAAR, MCDONALD DOUGLAS
ABSTRACT:
THIS PROGRAM CREATES FLOWCHARTS OF FORTRAN PROGRAMS ON THE LINE PRINTER. A MAG TAPE UNIT MUST BE AVAILABLE FOR A SCRATCH TAPE DURING PROGRAM EXECUTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890842 9-SERIES SYSGEN 2 - B00 MONARCH
AUTHOR:L. BRENTON, XEROX CORPORATION
ABSTRACT:
THIS MODIFICATION OF SYSGEN 2 PROVIDES THE CAPABILITY OF PUTTING FORTRAN SUBROUTINES INTO THE FORTRAN LIBRARY (FORTLIB).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS CHANGE IS BASED ON THE B00 VERSION OF RAD MONARCH. THE -74 CARD DECK CONTAINS BOTH THE SYSGEN 1 AND SYSGEN 2 BINARY DECKS AND LABEL CARDS.
- 890882 9300 SAM9300-SELECTIVE AUTO MONITOR PROGRAM
AUTHOR:G. KOSSUTH, DRAPER LABORATORY
ABSTRACT:
SELECTED REGIONS OF CORE CAN BE TRACED AND OCTAL CORE DUMPS TAKEN PROVIDING DEBUG INFORMATION TO THE METASYMBOL USER. TRACE WILL LIST EITHER OCTAL, FIXED POINT FRACTIONAL OR FLOATING POINT FORMAT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890884 9300 CARD READER/PUNCH DIAGNOSTIC PROGRAM
AUTHOR:C. OGREN, C.S. DRAPER LABORATORY
ABSTRACT:
THIS PROGRAM PUNCHES A BINARY CARD DECK IN A KNOWN PATTERN (FOUR POSSIBILITIES) WHICH CAN BE READ BACK AND CHECKED FOR ERRORS. THE ERRORS ON THE READ PASS ARE OUTPUT WHEN THEY OCCUR, INDICATING THE CARD NUMBER, ROW, COLUMN, AND ERROR TYPE (DROPPED OR PICKED). ADDITIONALLY, THE ERRORS ARE SUMMARIZED AT THE END OF THE READ PASS INDICATING THE NUMBER OF ERRORS IN EACH ROW AND EACH COLUMN. THE READER AND PUNCH MAY BE OPERATED IN EITHER A CONTINUOUS OR START/STOP MODE, WITH A 250 MS DELAY BETWEEN I/O OPERATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER B00 TAPE MONITOR. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

- 890885 9330 MAGNETIC TAPE TEST PROGRAM
AUTHOR: C. OGDEN & E. HARTNETT, C.S. DRAPER LABORATORY
ABSTRACT:
THE PROGRAM PROVIDES FASTER MULTI-TESTING OF MAGNETIC TAPES WITH A MORE CONVENIENT USER-COMPUTER INTERFACE. THE TAPE TEST RESULTS ARE OUTPUT ON THE LINE-PRINTER. THE INFORMATION PROVIDED IS THE NAME OF THE TAPE, THE DATE TESTED, THE LENGTH OF THE TAPE IN FEET, THE NUMBER OF ERRORS, AND A LIST OF THE POSITIONS OF THE ERRORS IN FEET. THE PROGRAM HAS THE FACILITY TO TEST UP TO SEVEN TAPES WITH A MINIMUM OF USER ATTENTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER 800 TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890886 9300 16K DGC NOVA SIMULATOR
AUTHOR: J. GARMIL, A. VIRET, G. KOSSUTH
ABSTRACT:
A BIT BY BIT DIGITAL SIMULATION OF A DATA GENERAL NOVA LINE COMPUTER WITH EXTENSIVE DEBUG CAPABILITY HAS BEEN DEVELOPED FOR PROGRAM CHECKOUT. FEATURES INCLUDE ADDRESS STOP, EFFECTIVE ADDRESS STOP, TRACE AND MEMORY DUMP WITH 16K SIMULATED MEMORY AND TTI, TTO, PTR, PTP, PTP, RTC, LPT, DEVICES SIMULATED. THE CPU RUNS APPROXIMATELY 100 TIMES SLOWER THAN REAL-TIME.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN AND METASYMBOL.
- 890896 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS
AUTHOR: T. CHAPMAN, XEROX CORPORATION
ABSTRACT:
A TAPE WHICH CONTAINS ALL EXISTING 9-SERIES DIAGNOSTICS WITH AN EASY-TO-USE INDEXING AND LOADING SCHEME. FEATURES INCLUDE, 'W' AND 'Y' CHANNEL UNIVERSAL LOADERS, LISTABLE CATALOG NUMBERS ON LINE PRINTER OR TELETYPE, LISTABLE OPERATING INSTRUCTIONS FOR ALL DIAGNOSTICS, AND MANY C.E. ORIENTED SERVICE ROUTINES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
OPERATES UNDER MINIMUM CONFIGURATION OF 8K MEMORY FOR 900/9300 SYSTEMS, AND 4K MEMORY FOR 92 SYSTEMS WITH ONE MAG TAPE UNIT AND TELETYPE. THIS UPDATE IS FOR PROGRAM CORRECTIONS AND ADDITIONS. TAPE VERSION IS NOW A01.
- 890963 9-SERIES MAGTP
AUTHOR: A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
MAGTP IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 890964 9-SERIES HTAPE
AUTHOR: A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
HTAPE IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 890965 9-SERIES SYMBOL
AUTHOR: A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
SYMBOL IS A MODIFICATION THAT IMPROVES THE SYMBOL ASSEMBLER IN MANY WAYS. OPTIONS ADDED INCLUDE A SECOND PASS FROM SI DEVICE, LIST-ONLY ERROR LINES, AND MULTIPLE ASSEMBLIES WITHOUT GOING BACK TO MONARCH. IMPROVEMENTS INCLUDE EDITING CARRIAGE RETURNS, TABS, AND BACKSPACES OUT OF BCD AND TEXT STATEMENTS, SEQUENCE NUMBERS ON CARDS FOR BO, AND FIVE INCHES OF BLANK TAPE ON PAPER TAPE BO.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

- 850639 9-SERIES PAPER TAPE PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTO READER.
COMMENTS:
SIZE 340 DECIMAL. CONFIGURATION: ANY 920 OR 910 WITH TYPEWRITER
- 850640 9-SERIES SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 267 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER.
- 850655 9-SERIES PHOTO READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE PHOTO READER AND TO TEST ITS OPERATION IN CONTINUOUS AS WELL AS STOP-START MODES OF OPERATION. THE OPERATOR MAY VARY THE TIME CONSTANTS CONTROLLING THE STOP AND START TO TEST EXTREME CONDITIONS.
COMMENTS:
SIZE 146 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A PHOTO READER
- 850656 9-SERIES 900 SERIES CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151 OR 9152 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 535 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD PUNCH.
- 850657 9-SERIES CARD PUNCH TEST PROGRAM PACKAGE -9156
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9156 CARD PUNCH SYSTEM.
COMMENTS:
SIZE 172 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 920/930 OR 910/925 WITH A TYPEWRITER, AND XDS MODEL 9151 OR 9152 CARD READER ON CHANNEL A (H). INTERLACE IS NOT USED.
- 850658 9-SERIES CARD PUNCH TEST PROGRAM -9157
AUTHOR: XEROX
ABSTRACT:
SIZE 223 DECIMAL. CONFIGURATION: XDS 920 OR XDS 910 WITH MODEL 9156 CARD PUNCH SYSTEM. FOR THE VERIFY TEST, AN XDS MODEL 9151 CARD READER AND A TYPEWRITER ARE REQUIRED.
- 850659 9-SERIES CARD PUNCH TEST PROG/MOD.9157(INTERLACE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 608 DECIMAL. CONFIGURATION: ANY 910, 920, 925, OR 930 WITH MODEL 9157 CARD PUNCH COUPLER SYSTEM.
- 850660 9-SERIES STANDARD CARD READER TEST DECK PROGRAM
AUTHOR: XEROX
ABSTRACT:
DOCUMENT STANDARD TEST CARD DECK FOR CARD READER TEST PROGRAM.
COMMENTS:
CONFIGURATION: ANY 900/9300 SERIES COMPUTER.
- 850661 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 230 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM. (WITHOUT INTERLACE AND EXTENDED MODE)

- 850670 9-SERIES EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER
AUTHOR: XEROX
ABSTRACT:
THE EXAMINER 910/920 SYSTEM IS COMPLETE DIAGNOSTIC PACKAGE DESIGNED TO GIVE THE OPERATOR THE ABILITY TO EXERCISE AND/OR DIAGNOSE THE MEMORY, THE COMPUTER LOGIC, THE BUFFER AND SOME ASSOCIATED PERIPHERAL EQUIPMENT. THE ENTIRE SYSTEM IS ON ONE TP TAPE FOR EASE OF HANDLING.
COMMENTS:
ALL OF THE ABOVE-MENTIONED TESTS, EXCEPT THE MEMORY TESTS, ARE INCLUDED IN ONE PROGRAM, (MODEL NO. 850670). THE MEMORY PROGRAM MUST BE SEPARATE DUE TO THE NATURE OF THE PROCEDURE. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM.
- 850671 9-SERIES INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL NUMBER 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.
- 850672 9-SERIES MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES MEMORY IN THE MOST STRENUOUS MANNER POSSIBLE, MONITORS THE MEMORY FOR ERRORS WHILE EXPOSED TO SUCH CONDITIONS, AND AIDS THE OPERATOR IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
MEMORY DIAGNOSTIC IS AVAILABLE ON A SEPARATE TAPE, AND IS ALSO AVAILABLE AS PART OF EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.
- 850673 9-SERIES 15KC MAG TAPE TEST-INTERRUPT AND INTRLACE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN TESTING THE INPUT/OUTPUT CAPABILITIES OF THE 9140 OR 9145 MAGNETIC TAPE UNIT USING INTERRUPT AND/OR INTERLACE.
COMMENTS:
SIZE: 840 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH ONE 9140 OR 9145 MAGNETIC TAPE UNIT.
- 850674 9-SERIES MAGNETIC TAPE SYSTEM EXERCISER-15KC
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE A TAPE UNIT BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH AND READING THIS FILE BACK CHECKING FOR ERRORS. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE END OF A PASS.
COMMENTS:
SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 WITH ONE TAPE CONNECTED TO THE W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.
- 850675 9-SERIES 15KC MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 15KC MAGNETIC TAPE UNITS.
COMMENTS:
SIZE: 592 DECIMAL. CONFIGURATION: ALL XDS 920 SYSTEMS AND ANY 910 WITH A TYPEWRITER WHICH HAVE ONE OR MORE MAGNETIC TAPE UNITS CONNECTED TO THE W BUFFER.
- 850676 9-SERIES MULTI-MAGNETIC TAPE SYSTEM EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO SIXTEEN TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 1155 DECIMAL. CONFIGURATION: ALL 920, 925 AND 930 SYSTEMS, OR ANY 910 SYSTEMS WITH A TYPEWRITER, WHICH HAVE ONE TO SIXTEEN TAPE UNITS ATTACHED TO THE W AND / OR Y BUFFERS. NO INTERLACE IS REQUIRED AND THE TAPES MAY BE OF ANY DENSITY AND SPEED WITHIN THE LIMITATIONS OF THE BUFFER TO WHICH THEY ARE ATTACHED.
- 850679 9-SERIES MAGNETIC TP EXERCISER,2 TP SYTH-15KC
AUTHOR: XEROX
ABSTRACT:
TO ALTERNATELY EXERCISE TWO TAPE UNITS (NO. 0 AND NO. 4) BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH ON ONE TAPE, READING THIS FILE BACK CHECKING FOR ERRORS AND THEN DOING THE SAME ON THE SECOND TAPE. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE
COMMENTS:
END OF A PASS. SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 WITH ONE OR TWO TAPES CONNECTED TO W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.

- 850681 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND SUBSEQUENT TESTING OF TAPE UNITS.
COMMENTS:
SIZE: 593 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE Y BUFFER. THE BUFFER MUST BE INTERLACED.
- 850682 900-SERIES 42KC MAG TAPE SYS EXERCISER, Y BUF
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE: 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS, OR ANY 910 WITH TYPEWRITER, WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE Y BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE Y BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.
- 850691 9-SERIES BUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 PRINTER 1 (W-BUFFER) ON A 910 OR 920. INTERLACE IS NOT REQUIRED.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 1161 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER, USING 8 CHANNEL FORMAT TAPE FOR SKIPPING.
- 850692 9-SERIES OFF-LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS FOR TESTING THE OFF-LINE OPERATION OF THE PRINTER.
COMMENTS:
SIZE: 406 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A TYPEWRITER, PRINTER WITH OFF-LINE FEATURE, AND TAPE UNIT OR CARD READER ATTACHED TO THE W BUFFER.
- 850693 9-SERIES BUFFERED PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1290 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A BUFFERED LINE PRINTER CONNECTED TO THE W OR Y BUFFER, AND WITH A TYPEWRITER CONNECTED TO THE W BUFFER.
- 850694 9-SERIES UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM GENERATED COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1510 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A MODEL 9372 LINE PRINTER CONNECTED TO CHANNELS W OR Y AND A TYPEWRITER CONNECTED TO CHANNEL W.
- 850695 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM, W BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 42KC MAGNETIC TAPE UNITS.
COMMENTS:
SIZE: 587 DECIMAL. ANY 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE W BUFFER. THE BUFFER MUST BE INTERLACED.
- 850696 9-SERIES 42KC MAGNETIC TAPE EXERCISER, W BUFFER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE: 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS (OR 910 WITH TYPEWRITER) WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE W BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE W BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

- 850699 9-SERIES CALCOMP PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
COMMENTS:
SIZE 265 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH XDS MODEL 9175-76 INCREMENTAL PLOTTER.
- 850702 9-SERIES P + S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE P AND S REGISTERS AND THE DATA FLOW BETWEEN THE P,S AND C REGISTERS, BY ACCESSING EVERY CELL IN MEMORY NOT USED BY THE PROGRAM WITH A BRM OR A BRR WHILE TESTING FOR CORRECT RESPONSE AFTER THE ACCESS. THE IA FLIP-FLOP WHICH IS USED TO INCREMENT THE P AND C REGISTERS DURING BRM AND BRR IS ALSO RIGOROUSLY EXERCISED.
COMMENTS:
THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM, MODEL NUMBER 850870.
- 850703 9-SERIES 910/920/925 DIAGNOSTIC CONTROL PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS DIAGNOSTIC CONTROL PROGRAM IS TO PROVIDE THE CONTROL INTERFACE, VIA THE TEST LANGUAGE INTERPRETER, FOR SUBROUTINES THAT DRIVE A PERIPHERAL DEVICE AND TO CONTROL SUBROUTINE INTERACTIVE FUNCTIONS. BY DESCRIBING THE STRUCTURE OF THE TEST LANGUAGE THAT THE OPERATOR WILL USE IN ACTIVATING THE DCP, THIS DOCUMENT PROVIDES THE OPERATOR WITH A PERIPHERAL-INDEPENDENT ON-LINE MEANS OF DIRECTING THE SEQUENCE OF EVENTS PERFORMED UPON THE PERIPHERAL DEVICE. THIS PROGRAM IS ALSO A SOURCE REFERENCE FOR DESCRIBING THE SUBROUTINES WHICH MUST BE ASSEMBLED WITH THE DCP, IF IT IS TO COMPRISE A FREE-STANDING TEST PROGRAM.
- 850711 9-SERIES PRIORITY INTERRUPT TEST
AUTHOR: XEROX
ABSTRACT:
FOR USE IN CONJUNCTION WITH A SPECIAL TEST CARD TO FACILITATE TESTING OF PRIORITY INTERRUPTS DURING PRODUCTION OR FIELD MAINTENANCE. OPTIONAL MODES OF TESTING ARE PROVIDED SO THAT THE PROGRAM MAY BE USED AS A THROUGH, AUTOMATIC GO - NO - GO TEST OR AS A SEMIAUTOMATIC DIAGNOSTIC AID.
COMMENTS:
SIZE 500 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER.
- 850712 9-SERIES UNBUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9170 LINE PRINTER.
- 850716 9-SERIES 9181 DRUM MEMORY TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9181-N DRUM MEMORY SYSTEM.
COMMENTS:
SIZE 1817 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND AN XDS MODEL 9181-N DRUM MEMORY SYSTEM AND AN INTERLACED M-BUFFER. THE 'N' SIGNIFIES THE SIZE OF THE DRUM.
- 850717 9-SERIES 1622 CARD READ/PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 1622 CARD READ/PUNCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 474 DECIMAL. CONFIGURATION: ANY XDS 910 OR XDS 920 COMPUTER WITH TYPEWRITER AND AN IBM 1622 CARD READER AND PUNCH.
- 850720 9-SERIES POWER FAIL-SAFE INTERRUPT TESTER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A PROGRAM TO TEST THE POWER FAIL-SAFE INTERRUPT SYSTEM.
COMMENTS:
CONFIGURATION: ANY 910, 920, OR 930.
- 850721 9-SERIES ARM/DISARM FEATURE CHECKOUT
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF THE ARM-DISARM FEATURE.
COMMENTS:
SIZE 1652 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER. 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE.

- 850722 9-SERIES FRANKLIN PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE FRANKLIN PRINTER FOR PROPER OPERATION.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 867 DECIMAL. CONFIGURATION: ANY 910 OR 920 COMPUTER WITH 1,2, OR 3 FRANKLIN PRINTERS AND PAPER TAPE I/O.
- 850724 9-SERIES 9158 CATHODE-RAY TUBE DISPLAY TEST PROG.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:
SIZE 4095 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING ONE OF THE FOLLOWING CHANNEL CONFIGURATION: XDS 910 OR 920: 24-BIT Y BUFFER OR PARALLEL INPUT-PARALLEL OUTPUT (PIN-POP) CONNECTOR. XDS 925 OR 930: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR. A PAPER TAPE READER OR CARD READER ON CHANNEL W IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ON CHANNEL W IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.
- 850725 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RAD'S.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 910 OR 920 COMPUTER WITH A TYPEWRITER (NO. 1) ATTACHED TO THE W-BUFFER AND ONE OR MORE (9366) RAD'S ATTACHED TO A 24 BIT Y BUFFER WITH A 9321 INTERLACE.
- 850726 9-SERIES MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO VERIFY THE CAPABILITIES OF THE READER AND PUNCH MECHANISM AND ELECTRONICS. IT IS SUGGESTED THAT THE APPROPRIATE 7-LEVEL PAPER TAPE TEST PROGRAM BE USED TO EXERCISE THE SPOOLER MECHANISM AND THE START-STOP CHARACTERISTICS OF THE PINCH ROLLER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 861 DECIMAL. CONFIGURATION: ANY XDS 910,920, 925 OR 930 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, A TYPEWRITER, AND A MODEL 933 7- OR 8-LEVEL PAPER TAPE READER AND PUNCH, CONNECTED AS UNIT NUMBER 1 AND 2 TO A W OR Y BUFFER. INTERLACE IS NOT USED.
- 850727 9-SERIES 9185 CATHODE RAY TUBE DISPLAY UNIT/S RE1
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKOUT AND ADJUSTMENT OF THE OSCILLOSCOPE COUPLER, DISPLAY UNIT, AND REFRESH MEMORY.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 910 COMPUTER WITH A MODEL 9185 CRT + STE-10 REFRESH MEMORY ATTACHED TO THE Y BUFFER. THE PROGRAM REQUIRES INTERLACE FEATURE TO BE PRESENT. A PAPER TAPE READER OR CARD READER ATTACHED TO THE W BUFFER IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ATTACHED TO THE W BUFFER IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.
- 850735 9-SERIES PRIORITY INTERRUPT SOURCE TEST
AUTHOR: XEROX
ABSTRACT:
TO INDICATE WHICH PRIORITY INTERRUPTS ARE BEING RECEIVED ONLY INTERRUPTS 200-237 ARE CONSIDERED.
COMMENTS:
SIZE 2048 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND EXTRA INTERRUPTS.
- 850739 9-SERIES ANALOG COMPARISON TEST
AUTHOR: XEROX
ABSTRACT:
INPUTS TEN SETS OF ANALOG DATA AT A 400 CYCLE RATE AND COMPARES LAST NINE DATA SETS WITH THE INITIAL DATA SET.
COMMENTS:
SIZE:260 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER, AN AD10-9 ANALOG TO DIGITAL CONVERTER, MU31-4 20-CHANNEL MULTIPLEXER, AND 9128 PRIORITY INTERRUPT CONTROL.
- 850741 930 PATCH, PROGRAMMED ANALOG TOTAL CHECK
AUTHOR: XEROX
ABSTRACT:
THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS.THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION:900 SERIES REAL-TIME MONITOR

- 850743 910 JPL HSDL TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM TESTS THE TRANSFER OF DATA TO AND FROM THE HSDL UNIT VIA THE COMPUTER'S POT AND PIN LINES. DATA WORDS ARE SENT OUT AND COMPARED WITH THE WORDS RETURNED. IF THE TWO ARE NOT IDENTICAL, AN ERROR MESSAGE IS PRINTED. THE PROGRAM IS SELF-LOADING.
COMMENTS:
OPTIONS ARE PROVIDED TO SEND 24 BIT OR 12 BIT PSEUDO-RANDOM NUMBERS OR TO ALLOW OPERATOR INPUT OF DATA WORDS.
- 850744 920 JPL HSDL COUPLER EXERCISER
AUTHOR: XDS DATA SYSTEMS
ABSTRACT:
EXERCISES THE JPL ASDL COUPLER IN TEST MODE BY REPEATEDLY TRANSMITTING, RECEIVING, AND COMPARING A SYNCH-HEADER WORD AND A DATA WORD. BOTH WORDS CAN BE VARIED BY THE OPERATOR. COMPARISON, INTERRUPT, AND SKS ERRORS ARE REPORTED ON THE TYPEWRITER.
COMMENTS:
CONFIGURATION: ASDL, PAPER TAPE READER, TELETYPE AND 910 OR 920 COMPUTER.
- 850755 925 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EMOS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 9TRACK MAGNETIC TAPE SYSTEMS
- 850901 9-SERIES 910/925 STANDARD ANALOG TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 12288. CONFIGURATION: ANY 910/925 WITH ASSOCIATED ANALOG I/O EQUIPMENT, TYPEWRITER AND PAPER TAPES I/O.
- 851048 9-SERIES 930 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900097: 920/930 EXAMINER DIAGNOSTIC TECHNICAL MANUAL VOL. I AND II.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.S 851049,851050 AND 851051.
- 851049 9-SERIES 930 EXAMINER MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE MEMORY WITH A CHECKERBOARD MEMORY WORD PATTERN; TO MONITOR MEMORY FOR ERRORS AND AID IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.
- 851050 9-SERIES 930 EXAMINER INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO AID IN DIAGNOSING COMPUTER FAULTS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930 THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.
- 851051 9-SERIES 930 EXAMINER P AND S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE P AND S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE "MARK" OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECK WHETHER THE P AND S REGISTERS FUNCTIONED PROPERLY.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.

- 851052 9-SERIES 930 BIO MEMORY ADDRESSING TEST
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC VERIFIES THE ABILITY OF A 930 (20K OR LARGER) TO UNIQUELY ACCESS EVERY LOCATION IN CORE VIA BOTH THE 'MEMORY EXTENSION REGISTERS' AND THE '91903 MEMORY ADDRESS EXTENSION' OPTION.
- 851054 9-SERIES MTE-1 MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 6120 DECIMAL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND AN MTE-1 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851055 9-SERIES MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAG TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851056 9-SERIES MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851057 9-SERIES MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 369 DECIMAL. CONFIGURATION: ANY XDS 930 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLED) POWER FAIL-SAFE.
- 851058 9-SERIES 930 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 1-2 MEMORY BANKS TOTALING UP TO 32K (ALTHOUGH THE CFE WILL BE TESTED WITH ONLY THE FIRST 16K), CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER NO. ON CHANNEL W.)
- 851060 9-SERIES REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 600 DECIMAL CONFIGURATION: ANY XDS 925 OR 930 COMPUTER WITH A PAPER TAPE READER, A TYPEWRITER ATTACHED TO THE W BUFFER, AND A 91880 REAL TIME CLOCK.
- 851062 930 9185 DISC EXERCISER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE, SEEK, AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER THE CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
COMMENTS:
THE PROGRAM WILL OPERATE ON A 930 WITH A 9184-01 SINGLE ACCESS DISC FILE CONTROLLER AND A 9185 DISC FILE STORAGE ON THE W-CHANNEL.

- 851063 930 930 RAD DIAGNOSTIC FOR 9367 RAD
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPEWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LEAD TIME.
COMMENTS:
THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL. TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SET UP BEFORE THE RAD IS DRIVEN. THIS IS NECESSARY TO CHECK THE 'EARLY WORD' INTERRUPT OPTION. ALL ERROR MESSAGES AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPEWRITER. READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER CATALOG NUMBER 850849.
- 851100 9-SERIES 925 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900649 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.'S 851101,851102,851103.
- 851101 9-SERIES 925 MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES MEMORY WITH THE CHECKERBOARD MEMORY WORD PATTERN; IT MONITORS THE MEMORY FOR ERRORS AND AIDS IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900489, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: META-SYMBOL. SIZE: 208 DECIMAL. CONFIGURATION: ANY 925.
- 851102 9-SERIES 925 INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900489, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 2271 DECIMAL. CONFIGURATION: ANY 925.
- 851103 9-SERIES 925 P-AND-S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM EXERCISES THE P-AND-S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE 'MARK' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECKS WHETHER THE P-AND-S REGISTER FUNCTIONED PROPERLY.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900489, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 164 DECIMAL. CONFIGURATION: ANY 925.
- 851104 9-SERIES 925 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: 910 META-SYMBOL. SIZE: 1309 DECIMAL. CONFIGURATION: 925 WITH UP TO 16K OF CORE STORAGE, A CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER =1 ON CHANNEL W.)
- 851107 9-SERIES EXTENDED MODE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH A TYPEWRITER ATTACHED TO THE W CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE W CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.
- 851110 9-SERIES 925/930 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151, OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL. CONFIGURATION: ANY 925/930 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A THCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READING.

- 851111 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 314 DECIMAL. CONFIGURATION: ANY 925/930 WITH INTERLACE, WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM. MAY BE USED ON CHANNELS W,Y,C,D,E,F,G,H.
- 851113 9-SERIES EXTENDED MODE MULTI-MAGNETIC TAPE EXER.
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THROUGH H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES AND ALL SKS'S AND EOM'S ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 1903 DECIMAL. CONFIGURATION: ANY 925/930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 851114 9-SERIES MAGNETIC TAPE TEST PROGRAM FOR 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPES UNITS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 925/930 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED TO THE W BUFFER AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.
- 851115 9-SERIES DATA MULTIPLEX CHANNEL TEST 925/930
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION ANY 925 OR 930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 851117 9-SERIES DSC-11 DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-11 TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851118 9-SERIES DACC DIAGNOSTIC TEST WITH JX35 TESTER925
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851119 9-SERIES TMCC DIAGNOSTIC TEST FOR 925/930
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TIME MULTIPLEXED COMMUNICATION CHANNEL TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851122 9-SERIES 9174/9179 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.
- 851123 9-SERIES 9379 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.
- 851124 9-SERIES 9372 UNBUFFERED LINE PRINTER TEST 925/93
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM-GENERATED COMMANDS.

- 851127 9-SERIES DISC FILE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE OF THE 9164 MOVABLE ARM DISC.
- 851128 9-SERIES DISC FILE DIAGNOSTIC (DFD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE CAPABILITY TO DIAGNOSE THE OPERATION OF THE MODEL 9267 RAD.
- 851129 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF R.A.D.'S.
- 851130 9-SERIES TEST PROGRAM DISC FILE MODEL 9367-A 925/
AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE UNIT MODEL 9367-A.
- 851134 925 9 TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM
- 851135 900-SERIES SEMI AUTO TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE. THE OPERATOR MAY SELECT THE W BUFFER OR THE Y BUFFER AND TYPEWRITER NO. 1 OR TYPEWRITER NO.2.
COMMENTS:
THE PROGRAM REQUIRES 368 DECIMAL LOCATIONS, IS SELF-LOADING AND RELOCATABLE. THE PROGRAM WILL OPERATE WITH EITHER THE SELECTRIC OR TELETYPE KEYBOARD/PRINTER DEVICES.
- 851136 930 DEE-8D SIMULATOR SYSTEM DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE AND TEST ALL DEE-8D SIMULATOR SYSTEM INTERFACE HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-8D HARDWARE.
- 851137 910 JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND DESCRIBE MALFUNCTIONS IN THE JPL APS-100 SYSTEM.
COMMENTS:
STAND ALONE ABSOLUTELY LOADED. CODED IN 910 METASYMBOL. STORAGE REQUIRED THROUGH 2620.
- 851152 92 INTERRUPT-INTERLACE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE INTERRUPT AND INTERLACE OPERATIONS AS POSSIBLE WITH PAPER TAPE I/O OPERATIONS. GIVEN IN I/O CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL WITH 92 PROCEDURES DECK. SIZE: 993 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH PAPER TAPE READER AND/OR PAPER TAPE PUNCH ATTACHED TO THE I/O CHANNEL. THE INTERRUPT AND/OR INTERLACE FEATURES MAY EXIST IN ANY COMBINATION WITH RESPECT TO THE I/O CHANNELS.
- 851153 92 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THE XDS 92 EXAMINER SYSTEM IS A COMPLETE MAIN FRAME DIAGNOSTIC PACKAGE, WHICH VERIFIES SUCCESSFUL OPERATION OR ISOLATES ERRORS AND DIAGNOSES THE PROBABLE CAUSE OF ERRORS FRO ALL HARDWARE TESTED BY THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. THIS PROGRAM COVERS CATALOG NO. S: 851154 THRU 851158. SEE MANUAL 900878. 92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

- 851154 92 DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)
AUTHOR: XEROX
ABSTRACT:
TO TEST ALL OPERATIONS WITHIN THE 92 EXCEPT THOSE RELATED TO I/O. THESE INCLUDE ALL NON-I/O INSTRUCTIONS, REGISTER TRANSFERS, ADDRESSING MODES, AND ADDER FUNCTIONS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 2000 DECIMAL. CONFIGURATION: MINIMUM OF 2K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851155 92 2-4K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 4000 DECIMAL. CONFIGURATION: 2K OR 4K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851156 92 8-16-32K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATIONS, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 8000 DECIMAL. CONFIGURATION: 9, 16, 32K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851157 92 92 TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE TYPEWRITER UNDER OPERATOR CONTROL
- 851166 92 PAPER TAPE READER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE PAPER TAPE READER AND TEST ITS OPERATION.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/92. SIZE: 2146 DECIMAL. CONFIGURATION: ANY 92 COMPUTER.
- 851168 92 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9150, 91510, 9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 904 DECIMAL. CONFIGURATION: ANY XDS 92 WITH TYPEWRITER AND XDS MODEL 9150, 91510, 9152 OR 9153 CARD READER IN UNIT NUMBER 1 POSITION. INTERRUPTS AND/OR INTERLACE ARE NOT REQUIRED FOR OPERATION OR TEST PROGRAM.
- 851170 92 MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1412 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH 4K MEMORY, A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE ATTACHED TO THE I/O CHANNEL. INTERLACE AND I/O CHANNEL INTERRUPTS ARE NOTE USED IN THE PROGRAM.
- 851171 92 MULTI-MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE TAPE UNITS BY WRITING A FILE CONSISTING OF RANDOM LENGTH RECORDS OF RANDOM NUMBERS AND READING THE RAPE BACK CHECKING FOR ERRORS. COUNTERS ARE MAINTAINED BY THE PROGRAM, TALLYING THE NUMBER OF PASSES MADE AND THE NUMBER OF VARIOUS TYPES OF ERRORS. THE PROGRAM WILL EXERCISE UP TO 8 TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 2174 DECIMAL. CONFIGURATION: A 92 COMPUTER WITH ONE OR MORE MAGNETIC TAPES AND A TYPEWRITER.
- 851173 92 DSC-1 DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE: 2702 DECIMYMBOL WITH XDS 92 92, I/O TESTER, DSC-1 AND TYPEWRITER.

- 851174 92 DSC-II DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 2358 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, DSC-II AND TYPEWRITER.
- 851175 92 INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A BPO/BPI TEST, AND/OR AN INTERRUPT CHASSIS TEST, BY USING THE I/O TESTER INSTEAD OF PERIPHERAL DEVICES.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 1905 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, TYPEWRITER, AND INTERRUPT CHASSIS (NOT NECESSARY IF ONLY BPO/BPI IS TO BE TESTED).
- 851179 92 MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM HAS BEEN DESIGNED PRIMARILY TO TEST THE BASIC FUNCTIONS OF THE 9372 PRINTER UTILIZING A LIMITED AMOUNT OF CORE. TO ACHIEVE THESE ENDS SOME LIMITATIONS HAVE BEEN PUT ON KEYBOARD ENTRIES (MUST BE OF COMPLETE NATURE), AND TITLE PRINTOUTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1720 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.
- 851180 92 BUFFERED LINE PRT. DIAGNOSTIC 9379/9171
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM WILL PROVIDE A COMPREHENSIVE TEST FOR THE BUFFERED LINE PRINTER WITHIN A LIMITED AMOUNT OR CORE.
COMMENTS:
SIZE: 1571 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9379/9171 BUFFERED LINE PRINTER.
- 851181 92 MTE-2 MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUT PUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL (92 PROC DECK, B50877). SIZE 1600 DECIMAL. CONFIGURATION: XDS 92 COMPUTER AND A 6-BIT I/O CHANNEL, A TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-2 MAGNETIC TAPE TRANSPORT, UNIT 0, CONNECTED TO THE W BUFFER.
- 851182 92 SCOPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO AID IN SCOPE MAINTENANCE AND VERIFICATION OF SCOPE OPERATION. THE PROGRAM INCLUDES TESTS FOR ALL OPTIONAL SCOPE FEATURES.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 WITH PAPER TAPE, TYPEWRITER, 24BIT PIN/POT EXTENDER AND MODEL 9185 OSCILLOSCOPE DISPLAY SYSTEM.
- 851184 92 92 RAD ANALYTIC DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 4037 DECIMAL. CONFIGURATION: AN XDS MODEL 92 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED AND ONE OR MORE RAD UNITS USING INTERLACE AND 12 BIT EXTENDER.
- 851185 92 TEST PROGRAM FOR DISC FILE 9367-A
AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE MODEL 9367-A.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 COMPUTER, 8K MEMORY, 12 BIT CHARACTER OPTION ON I/O CHANNEL. DISC FILE SYSTEM MODEL 9367-A ATTACHED TO I/O CHANNEL (UNIT 26). DISC FILE UNIT MUST BE UNIT 0.

- 851186 92 POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE POWER FAIL-SAFE OPTION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 983 DECIMAL. CONFIGURATION: ANY XDS 92 WITH POWER FAIL-SAFE AND PAPER TAPE READER.
- 851187 92 REAL TIME CLOCK TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1664 DECIMAL. CONFIGURATION: ANY XDS 92 WITH REAL TIME CLOCK AND PAPER TAPE READER.
- 851580 930 INTER-COMPUTER COUPLER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 930 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE THCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.
- 851584 9-SERIES ACCEPTANCE PROG. FOR DATA COMMUNICATION
AUTHOR: XEROX
ABSTRACT:
PROVIDES A MEANS OF TESTING THE OPERATION OF XDS DATA COMMUNICATIONS EQUIPMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 900 SERIES COMPUTER WITH DATA COMMUNICATIONS EQUIPMENT.
- 851585 9-SERIES COMMUNICATION BUFFER CHECKOUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH COMMUNICATIONS BUFFER, 4K MEMORY AND ONE OR MORE TELETYPE UNITS OPERATING IN 5 LEVEL OR 8 LEVEL CODE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL
- 851615 930 DIGITAL I/O TEST FOR OD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE DIGITAL I/O SUBSYSTEM OF THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, 12 'POT' CHANNELS, 12 'PIN' CHANNELS, 128 'SKS' CHANNELS, 220 'EOM' CHANNELS HEWLETT PACKARD 101A OSCILLATOR, SPECIAL XDS 24-BIT TEST REGISTER. THE HP 101A OSCILLATOR IS CONNECTED THROUGH THE SPECIAL SYSTEMS LOGIC TO INTERRUPTS 204-210 (OCTAL).
- 851616 930 ANALOG/NSC-II TEST FOR OD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE OPERATION OF THE ANALOG/DSC-II SUBSYSTEM WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER WITH DSC-II'S CONNECTED TO THE W AND X CHANNELS OF THE DMC, A 128 CHANNEL MULTIPLEXER AND A 15 BIT ADC. THE DSC-II'S ACCESS THE UPPER 8K OF THE 16K MEMORY. INTERRUPTS 200, 203 AND 211 (OCTAL) ARE USED BY THE MULTIPLEXER/DSC-II'S.
- 851617 930 ANALOG ACCURACY TEST FOR OD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE ACCURACY OF THE EIGHTDAC CHANNELS AND THE 128 MULTIPLEXER CHANNELS WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, KEYBOARD/PRINTER ON THE THCC W CHANNEL, DSC II ON THE DMC X CHANNEL.
- 851618 910 ANALOG TEST FOR O.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES OPEN END AND CLOSED LOOP TESTS FOR ANALOG TO DIGITAL INPUTS. STATISTICAL TABULATIONS ARE MADE ON RESULTS OF MASS READINGS.

851618 CONTINUED ON FOLLOWING PAGE

- 851618 ANALOG TEST FOR G.D./CONVAIR (CONTINUED)
COMMENTS:
HARDWARE REQUIREMENTS: XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 8K OF MEMORY, TTY,
AND ANALOG FRONT END.
- 851619 910 SAMPLE AND HOLD TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES AN OPEN END TEST FOR SAMPLE AND HOLD ANALOG TO DIGITAL CHANNELS. VOLTAGES ARE INPUT
THROUGH THESE CHANNELS TO XDS 910 COMPUTER. SAMPLE AND HOLD VALUES OF A SINGLE INPUT ARE COMPARED FOR
ACCURACY.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 5 CHANNELS OF SAMPLE
AND HOLD ADC'S.
- 851620 910 SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES A DEMONSTRATION FOR THE VARIOUS FEATURES OF THE GENERAL DYNAMICS/CONVAIR 910 COMPUTER
SYSTEM.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR G.D.
DEMONSTRATES D/A, A/D, SYSTEM POT/PIN, SYSTEM EOM'S, SYSTEM SKS'S, AND SPECIAL REAL-TIME CLOCK.
- 851623 9-SERIES 900 PAPER TAPE PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A TEST WITH VARIABLE START-STOP DELAY WHICH SIMULATES CONDITIONS ENCOUNTERED WHEN
PUNCHING OBJECT PROGRAMS UNDER FORTRAN OR META-SYMBOL.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 192 DECIMAL LOCATIONS (0130 THRU 0435). THE PROGRAM CAN BE USED IN
ANY 900 SERIES COMPUTER WITH PAPER TAPE READER AND PUNCH ON THE W-BUFFER. THE PROGRAM PUNCHES OUT 84
DECIMAL CHARACTER GROUPS ARRANGED IN BLOCKS WITHOUT GAP. EACH GROUP CONSISTS OF AN ASCENDING BINARY
SEQUENCE ARRANGED FROM 00 TO 77 OCTAL.
- 860007 9300 7/8 LEVEL READER/PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
VERIFIES THE CAPABILITIES OF THE READER AND PUNCH MECHANISMS AND ELECTRONICS. IT WILL OPERATE BOTH
READER AND PUNCH AT THEIR MAXIMUM SPEED. INTERLACE IS NOT USED.
COMMENTS:
REQUIRES AN XDS 9300 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, KEYBOARD PRINTER, AND A MODEL 9333 7-OR
8-LEVEL PAPER TAPE READER OR PUNCH CONNECTED AS UNIT NUMBER 1 OR 2 TO CHANNEL A.
- 860661 9300 EXAMINER DIAGNOSTIC (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
SEE MANUAL NO.900624: FOR THE COMPUTER CONFIGURATION.
- 860662 9300 VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC
AUTHOR: XEROX
COMMENTS:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. THIS PROGRAM IS PART
OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.
- 860663 9300 MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661,SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.
- 860664 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

- 860665 9300 P AND S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860661, SEE THIS CATALOG NO. FOR THE COMPUTER CONFIGURATION.
- 860666 9300 SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 267 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER.
- 860667 9300 INTERRUPT EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS EXERCISER WILL EXECUTE THE 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC (DOC), CATALOG NO. 860664, IN AN INTERRUPT ENVIRONMENT. A SPECIAL PURPOSE DIAGNOSTIC MAY BE SUBSTITUTED FOR DOC.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE, BUFFERED PRINTER 1, CHANNEL A, AND AT LEAST 8K MEMORY.
- 860696 9300 BIG MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: 20K CORE MINIMUM AND PAPER TAPE OR CARD READER.
- 860718 9300 EXTENDED MODE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH A TYPEWRITER ATTACHED TO THE A CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE A CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.
- 860719 9300 PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTOREADER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 455 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE PHOTOREADER.
- 860727 9300 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151, 9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A TMCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READER.
- 860729 9300 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 608 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 COMPUTER WITH MODEL 9157 CARD PUNCH COUPLER SYSTEM ATTACHED TO ANY CHANNEL.
- 860730 9300 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. SOURCE LANGUAGE: META-SYMBOL. SIZE: 317 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM MAY BE USED ON CHANNELS A-H.

- 860738 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THRU H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1976 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 SYSTEM WITH 1 TO 64 TAPE UNITS ATTACHED TO INTERLACED CHANNELS A THRU H. THE TYPEWRITER ON CHANNEL A(H) IS USED FOR CONTROL.
- 860739 9300 MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1959 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER ATTACHED TO CHANNEL A AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.
- 860744 9300 DATA MULTIPLEX CHANNEL TEST
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS.
COMMENTS:
ANY 9300 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL HAVING A PAPER TAPE PUNCH AND A PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 860745 9300 DACC DIAGNOSTIC TEST FOR 9300
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1977 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, DACC, JX35 TESTER.
- 860746 9300 TMCC DIAGNOSTIC TEST FOR 9300
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TMCC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1878 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, TMCC, JX35 TESTER.
- 860747 9300 DSC-I DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1856 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A TYPEWRITER AND JX35 TESTER.
- 860748 9300 DSC-II DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1463 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH TYPEWRITER AND JX35 TESTER.
- 860753 9300 PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTERS ON A XDS 9300. THE PROGRAM OPERATES IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
COMMENTS:
SIZE: 866 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN ATTACHED 9174 OR 9179 BUFFERED LINE PRINTER(S).

- 860754 9300 9379/9171 BUFFERED LINE PRINTER DIAO
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1275 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINTER AND A TYPEWRITER CONNECTED TO CHANNEL A.
- 860755 9300 MODEL 9372 UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1560 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.
- 860757 9300 PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 261 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9175-76 INCREMENTAL PLOTTER ON ANY TMCC.
- 860758 9300 MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 297 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLER)/POWER FAIL-SAFE.
- 860759 9300 SPECIAL PRIORITY INTERRUPT TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CHECK FOR PROPER OPERATION OF OPTIONAL INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 284 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A, OPTIONAL INTERRUPTS, AND SPECIAL HARDWARE TO ALLOW INTERNAL INITIATION OF OPTIONAL INTERRUPTS.
- 860760 9300 SPECIAL TYPEWRITER TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO TEST THE I/O TYPEWRITER FOR PROPER INPUT-OUTPUT. THE ROUTINE PERFORMS THIS FUNCTION WITHOUT USING INTERLACE OR INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 90 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN I/O TYPEWRITER.
- 860761 9300 SPECIAL PAPER TAPE PUNCH-READ TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS 92340 PAPER TAPE UNIT
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 190 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND AN XDS 92340 PAPER TAPE UNIT (MODIFIED FOR SEVEN UNIT).
- 860762 9300 CATHODE RAYTUBE DISPLAY SYSTEM TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES, SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:
SIZE: 4095 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING THE FOLLOWING CHANNEL CONFIGURATION. XDS 9300: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR.

- 860763 9300 DES-1 DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST DES-1 CONSOLE AND EIGHT D/A CONVERTERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 518 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860764 9300 MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12843 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A 24-BIT EXTENDED A BUFFER TELETYPE TYPEWRITER CONNECTED TO THE A BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO EITHER CHANNEL A, B, C OR D.
- 860765 9300 9267 DISC FILE DIAGNOSTIC-(DFD)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF 9267 RAD DISC.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3510 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE, EXTENDED MODE, TYPEWRITER (NUMBER 1, A-CHANNEL), AND ONE OR MORE MODEL 9267 RAD, S.
- 860766 9300 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1325 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 1-4 MEMORY BANKS TOTALING UP TO 32K, CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION A TYPEWRITER 1 ON CHANNEL A IS HIGHLY ADVISED.
- 860767 9300 RAD APOCALYPTIC DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3707 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER (NO. 1) ATTACHED TO CHANNEL A AND ONE OR MORE RADS ATTACHED TO ANY CHANNEL USING INTERLACE.
- 860768 9300 DPD TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3700 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH XDS MODEL 9164-01/ 9164-02 DISC FILE CONTROLLER ATTACHED TO 1 OR 2 I/O CHANNELS A-W. THE TYPEWRITER IS USED FOR PROGRAM CONTROL AND MUST BE CONNECTED TO CHANNEL A.
- 860769 9300 INTERRUPT ARM-DISARM FEATURE TEST PROGRA
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF ARM-DISARM FEATURE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH TYPEWRITER, 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE. ALSO REQUIRED TO PERFORM THE TEST IS SPECIAL MODULE CARD = 109745. WHEN THIS CARD, S INPUT IS CONNECTED TO COMPUTER SIGNAL RT1, ANY PIN COMMAND SHOULD SET ALL ARMED INTERRUPTS.
- 860770 9300 CECIS SPECIAL ACCEPTANCE TEST
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE PERFORMANCE OF SPECIAL PARTS OF THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 778 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR CECIS SECT SYSTEM.

- 860771 9300 REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 367 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A PAPER TAPE READER OR CARD READER, A TYPEWRITER ATTACHED TO CHANNEL A, AND A 91880 REAL TIME CLOCK.
- 860773 9300 SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THESE PROGRAMS IS TO DEMONSTRATE THE REAL TIME SIMULATION SYSTEM CONFORMANCE TO REQUIREMENTS OF NAA PROCUREMENT SPECIFICATION MC 470-0080
COMMENTS:
SIZE: 2926 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR NAA REAL TIME SIMULATION SYSTEM.
- 860776 9300 STANDARD ANALOG TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
COMMENTS:
SIZE: 12288 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH ASSOCIATED ANALOG I/O EQUIPMENT.
- 860777 9300 BOEING RANDOM NUM. GEN. TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE RANDOM NUMBER GENERATOR AND MEMORY INCREMENT HARDWARE IN SIX WAYS. 1.) SINGLE-WORD RANDOM NUMBER MODE. 2) MEMORY INCREMENT MODE 3) RANDOM NUMBER BLOCK MODE 4) TIMING OF RANDOM NUMBER BLOCK MODE 5) TIMING OF MEMORY INCREMENT MODE 6) REGISTER TEST SOURCE LANGUAGE: META-SYMBOL.
SIZE: 6098 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, DSC-II, INTERLACED A CHANNEL, PAPER TAPE READER, TYPEWRITER, SPECIAL HARDWARE.
- 860778 9300 BOEING FAULT TREE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE BOEING FAULT TREE SYSTEM EOM'S AND SKS LINES. THERE ARE FOUR MAJOR PARTS TO THE PROGRAM: 1) CHECK ALL EOM FLIP FLOPS (FF,S) EXCEPT THE 7 TRIGGER FF,S USING ONE EOM CONNECTOR FOR OUTPUT. 2) CHECK ALL SKS INPUTS (EXCEPT THE INDIRECT SENSORS) USING ONE EOM CONNECTOR FOR OUTPUT. 3) CHECK THE 7 TRIGGER FF. 4) CHECK THE 20 INDIRECT SENSORS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2322 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, PAPER TAPE READER, INTERLACED A CHANNEL, TYPEWRITER, 4K MEMORY, SPECIAL HARDWARE.
- 860783 9300 ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITIES OF THE UCLA BRAIN RESEARCH SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAG TAPE, PAPER TAPE, TYPEWRITER, PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.
- 860787 9300 9-TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE 9-TRACK MAGNETIC TAPE UNIT AND ITS COUPLER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12625 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AT LEAST 8,192 WORDS OF MEMORY, PAPER TAPE OR CARD READER AND TYPEWRITER ON CHANNEL A, AND 9-TRACK MAGNETIC TAPE UNIT (MODEL NO.92469) WITH COUPLER (MODEL NO.92489) CONNECTED VIA A TMCC OR DACC WITH INTERLACE.
- 860788 9300 DOUGLAS MOL SYS. CHECK OUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIU, ETC).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 850 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, 32K MEMORY.
- 860789 9300 GENERAL ELECTRIC MOL SYS. CHECK OUT PROG
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIV,ET C).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 849 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 32K MEMORY.

- 860790 9300 ACCEPT TEST PROG.FOR NASA HOUSTON LEM
AUTHOR: XEROX
ABSTRACT:
TO CHECKOUT ANALOG I/O EQUIPMENT FOR NASA-MSC SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 6143 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MIC, MAM, TWO MAG TAPES, CARD READER, PAPER TAPE I/O, TYPEWRITER, LINE PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.
- 860792 9300 9379 PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 9300 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
COMMENTS:
SIZE: 768 DECIMAL. CONFIGURATION: ANY XDS 9300 COMPUTER WITH AN ATTACHED 9379 BUFFERED LINE PRINTER(S).
- 860793 9300 9TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM
- 860794 9300 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EOMS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 9TRACK MAGNETIC TAPE SYSTEMS
- 860795 9300 NASA EDWARDS INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
INTERFACE TEST PROGRAM FOR THE NASA EDWARDS XDS 9300 HYBRID SYSTEM.
COMMENTS:
THE MINIMUM COMPUTER CONFIGURATION REQUIRED FOR OPERATION OF THE NASA EDWARDS INTERFACE TEST PROGRAM MUST INCLUDE THE FOLLOWING: 16K XDS 9300, MIC, MAM, CARDREADER, TYPEWRITER, LINE PRINTER, JBE-34/35 DATA CHANNELS, AND ASSOCIATED ANALOG I/O EQUIPMENT. THIS PROGRAM INCLUDES TWELVE MODES FOR ANALOG INTERFACE TESTING. THESE MODES ARE MODIFICATIONS TO CATALOG #699004B, XDS 9300 STANDARD ANALOG TEST PROGRAM. NINE OTHER MODES ARE INCLUDED TO TEST OTHER I/O FUNCTIONS.
- 860797 9300 NORTH AMERICAN HYBRID INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
THIS IS A DIAGNOSTIC PROGRAM TO CALIBRATE AND TEST THE ANALOG AND DIGITAL INTERFACE EQUIPMENT FOR THE NAA HYBRID SYSTEM
COMMENTS:
MINIMUM CONFIGURATION IS 24K 9300, CARD READER, TELETYPE, AND SPECIAL SYSTEM INTERFACE HARDWARE (AS DESIGNED FOR THE NAA HYBRID SYSTEM
- 860800 9300 INTER-COMPUTER COUPLER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 9300 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.
- 861078 9300 USNPGS HYBRID INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
THE USNPGS HYBRID INTERFACE TEST PROGRAM IS DESIGNED TO CALIBRATE AND TEST THE HYBRID INTERFACE EQUIPMENT.
COMMENTS:
THE USNPGS HYBRID SYSTEM CONSISTS OF AN XDS 9300 DIGITAL COMPUTER INTERFACED WITH A CI 5000 ANALOG COMPUTER. THE INTERFACE TEST PROGRAM INCLUDES CLOSED LOOP STATISTICAL COMPUTATIONS FOR TESTING A-D, D-A CONVERTERS, TESTS FOR INTERRUPT PROCESSING, MODE CONTROL, LOGIC LINE CONTROL, DVM READOUT, POT SETTING, AND REAL-TIME CLOCK CONTROL. THE INTERFACE TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS WHICH CAN BE FILLED INTO MEMORY BY USING THE ONE OR TWO CARD BINARY LOADER.

- 861077 9300 USNPGS DISPLAY TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE USNPGS DISPLAY TEST PROGRAM PROVIDES FOR OPERATOR SELECTION OF TEST PATTERNS AND DISPLAY FUNCTIONS FOR TESTING, ADJUSTING, AND DEMONSTRATING THE TWO TASKER DISPLAYS AND DISPLAY INTERFACE HARDWARE.
COMMENTS:
THE DISPLAY TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS. IT CAN BE LOADED BY USE OF THE STANDARD FILL PROCEDURE WITH THE ONE OR TWO CARD BINARY PROGRAM LOADER. THE DISPLAY TEST PROGRAM PROVIDES FOR TRANSMISSION OF 17 DIFFERENT TEST PATTERNS, AN END OF TRANSMISSION INTERRUPT TESTS CHARACTER AND VECTOR RASTER GENERATION, LIGHT PEN USAGE, SCOPE KEYBOARD INPUT, AND FUNCTION PANEL INPUT.
- 870000 940 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THE 940 COMPUTER DIAGNOSTIC SYSTEM USES THE SAME TECHNIQUES AS THE 930 COMPUTER EXAMINER WHEREVER POSSIBLE, AND IT ENABLES AN OPERATOR TO EXERCISE AND DIAGNOSE THAT PORTION OF CORE MEMORY NOT REACHED BY THE 930 EXAMINER AND ALL FEATURES OF THE 940 MAIN-FRAME LOGIC NOT COMMON TO THE 930.
COMMENTS:
THIS PROGRAM INCLUDES: 860001, 860002, 860003, 860004, MEMORY ACCESS, MEMORY DIAGNOSTIC, INSTRUCTION DIAGNOSTIC AND INTERRUPT DIAGNOSTIC PROGRAMS. SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SIZE: 16384 DECIMAL.
- 870001 940 MEMORY ACCESS DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE MEMORY RELABELING LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870002 940 MEMORY DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE MEMORY WITH A CHECKERBOARD WORD PATTERN. MONITOR MEMORY FOR ERRORS, AND AID IN DIAGNOSING MEMORY FAILURE.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870003 940 INSTRUCTION DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO AID IN DETERMINING AND ISOLATING FAULTS IN THE 940 INSTRUCTION LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870004 940 INTERRUPT DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE 940 INTERRUPT LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870006 940 MEMORY ADDRESS TEST
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PERFORMS MEMORY ACCESSES AND CHECKS FROM THE CPU TO THE MEMORY OF A 940 COMPUTER. THE ACCESSES ARE MADE THROUGH RELABELING BYTES R0 - R7 AND M8 - M7. IN ADDITION LOCATIONS 4000 - 17777 OCTAL ARE ACCESSED DIRECTLY. READ ONLY AND OUT OF BOUNDS TRAPS ARE CHECKED THROUGH ALL RELABELING BYTES.
COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH 48K OR 64K MEMORY WORDS AND EITHER PAPER TAPE OR CARD READER FACILITIES. THE PROGRAM REQUIRES THAT THE 940 INSTRUCTION DIAGNOSTIC OPERATES CORRECTLY. CONTROL OF THE PROGRAM IS THROUGH THE CONTROL CONSOLE.
- 870007 940 940 DISC EXERCISER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE SEEK AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER. TWO CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH A CARD READER OR PAPER TAPE READER.

870008 940 940 RAD DIAGNOSTIC EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR
OUTPUTS ARE LISTED ON THE CONSOLE TYPWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT
IS PRINTED AT LOAD TIME. THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL.
COMMENTS:
TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SETUP BEFORE THE RAD IS
DRIVEN. THIS NECESSARY TO CHECK THE 'EARLY WORD' INTERRUPT OPTION. ALL ERROR MESSAGE AND PARAMETER
OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPWRITER READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE
ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING
ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K
WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS
LOADED USING THE ONE CARD LOADER, CATALOG NUMBER 850648.

870029 940 OLDS3.0 CONTROL MONITOR
AUTHOR: XEROX
ABSTRACT:
THIS IS THE CONTROL MONITOR NECESSARY TO CORRECTLY RUN THE 940 OLDS SYSTEM UNITS.

870030 940 UNIT 0 CPU TESTS 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS PRELIMINARY FUNCTION OF THE 940 TO ASSURE MINIMUM OPERATIONAL EFFICIENCY.
COMMENTS:
UNIT 0 MUST BE RUN WITH THE OLDS CONTROL MONITOR

870031 940 UNIT 1 CPU EXERCISER 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS ALL CPU FUNCTIONS INCLUDING ARITHMETIC, LOGICAL, AND INTERRUPTS.
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS CONTROL MONITOR

870032 940 UNIT 2 FLOATING POINT TESTS 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNITS TESTS THE OPERATION OF THE 94400 FLOATING POINT ARITHMETIC UNIT
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870033 940 UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A MEMORY DIAGNOSTIC FOR ADDRESSES 40000 TO 77777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870034 940 UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT IS A MEMORY DIAGNOSTIC FOR ADDRESSES 100000 TO 13777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS3.0 CONTROL MONITOR

870035 940 UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC FOR ADDRESSES 140000 TO 17777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870036 940 UNIT 12 E CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A TEST FOR THE 9367 RAD ADDRESS 26.66 ON E CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

PROGRAM AVAILABILITY LIST

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DIAGNOSTIC SUMMARIES

- 870037 940 UNIT 15 W CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9317 RAD ADDRESS 26.68 ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870038 940 UNIT 21 W CHANNEL DISC TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9164 DISC ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870039 940 UNIT 23 CTE 10/11 COM GEAR TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 84 CHANNELS OF THE CTE 10/11 ASYNCHRONOUS TELEPHONE INTERFACE
EQUIPMENT
COMMENTS:
THIS UNIT MU BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870040 940 UNIT 18 E CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE 940 DISC FILE CONNECTED TO CHANNEL E. IT IS SIMILAR TO UNIT 21 FOR THE 9164 DISC
FILE
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR
- 870041 940 UNIT 19 F CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE DISC CONNECTED TO CHANNEL E IT IS SIMILAR TO UNIT 21 FOR THE 9164 DISC
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR
- 870042 940 940 OLDS DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC ANALYZES AND EXERCISES THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THIS SYSTEM TAPE INCLUDES THE PROGRAMS LISTED UNDER CATALOG NUMBERS: 870029 THRU 870040

PROGRAM AVAILABILITY LIST

XEROX SCU
MIC INDEX

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890931 XEROX SCU DOUBLE PRECISION MULTIPLY
AUTHOR:D. MCGINNES, L. BRENTON, XEROX CORPORATION
ABSTRACT:
A FIXED POINT MULTIPLY ROUTINE FOR MULTIPLYING TWO 16-BIT SIGNED NUMBERS AND PRODUCING A 32-BIT SIGNED PRODUCT. THE CODE CHECKS THE INPUTS FOR MAGNITUDE TO MINIMIZE CALCULATION EXECUTION TIME.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890932 XEROX SCU DOUBLE PRECISION DIVIDE
AUTHOR:D. MCGINNES, L. BRENTON, XEROX CORPORATION
ABSTRACT:
A FIXED POINT DIVIDE ROUTINE FOR DIVIDING A 32-BIT SIGNED NUMBER BY A 16-BIT SIGNED DIVISOR AND PRODUCING A 16-BIT SIGNED QUOTIENT AND A 16-BIT REMAINDER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

- 880600 XEROX SCU SCU LOADER PROGRAM (SCULE)
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS NON RELOCATABLE PROGRAM LOADS PAPER TAPE INPUT* (WHICH IS IN SIGMA 5/9 STANDARD OBJECT LANGUAGE FORMAT DERIVED FROM PROGRAMS ASSEMBLED UNDER THE SCU ASSEMBLER WITH THE ASECT DIRECTIVE) INTO CONTROL MEMORY (RAM) AND/OR MAIN MEMORY OF THE SCU.
*THIS PROGRAM IS DESIGNED FOR ASR33/35 OR HIGH SPEED OPTICAL READER. THESE OPTIONS ARE SELECTED VIA MCP DATA SWITCHES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU ASSEMBLY LANGUAGE.
MINIMUM CONFIGURATION: SCU WITH CONTROL MEMORY AND EITHER AN ASR33/35 OR HIGH SPEED OPTICAL READER.
OPTIONAL: MAIN MEMORY. CONTROL MEMORY REQUIREMENTS: 172 WORDS PLUS 3 LOCATIONS OF RAM FOR TEMPORARY STORAGE (ADDRESSES BETWEEN 0 AND FF).
- 880601 XEROX SCU PROTOTYPE SCU FIELD VERIFICATION PROGRAM
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS CONTAINED ON THE SCU DIAGNOSTIC MODULE AND IS USED FOR FIELD TESTING OF PROTOTYPE SCU'S.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU META-SYMBOL.
LOCATIONS X'F00'-X'FFF' OF CONTROL MEMORY OF ALL SCU'S WILL CONTAIN THIS PROGRAM.
- 880603 XEROX SCU SCU BOOTSTRAP/ABSOLUTE LOADER
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS RELOCATABLE PROGRAM FUNCTIONS AS EITHER A BOOTSTRAP OR ABSOLUTE LOADER FOR PAPER TAPE INPUT.* AS A BOOTSTRAP, ITS FUNCTION IS TO LOAD THE SCU LOADER PROGRAM INTO CONTROL MEMORY. AS AN ABSOLUTE LOADER, IT WILL LOAD PAPER TAPE INPUT INTO CONTROL MEMORY OR (WITH A MINOR CHANGE) INTO MAIN MEMORY. *THIS PROGRAM IS FOR TTY PAPER TAPE INPUT BUT MAY BE MODIFIED FOR THE HIGH SPEED READER; INPUT TAPE IS IN SOCM FORMAT (SIGMA-SUPPRESS OBJECT CONTROL WORD).
COMMENTS:
PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU ASSEMBLER LANGUAGE.
CONFIGURATION: SYSTEM CONTROL UNIT (SCU) WITH CONTROL MEMORY AND/OR MAIN MEMORY AND ASR33/35 TELETYPE.
REQUIRES 9 WORDS OF CONTROL MEMORY.
- 880606 XEROX SCU SCU FIELD VERIFICATION PROGRAM
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS CONTAINED ON THE SCU DIAGNOSTIC MODULE, AND IS USED FOR FIELD VERIFICATION OF THE SCU'S OPERATION. THIS IS FOR PRODUCTION MODELS OF SCU'S ONLY.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS SCU META-SYMBOL.
LOCATIONS X'F00'-X'FFF' OF THE SCU CONTROL MEMORY ARE OCCUPIED BY THIS ROUTINE.
- 880611 XEROX SCU SCU/NBDE IDS 10 CONTROL PROGRAM
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
ALLOWS THE NBDE IDS 10 KEYBOARD/DISPLAY TERMINAL TO INTERFACE WITH A XEROX 530 COMPUTER VIA A SCU. XEROX 530 PROGRAMS MAY COMMUNICATE WITH THE NBDE IDS 10 TERMINAL USING A SUBSET OF THE STANDARD BC100 COMMUNICATIONS PROTOCOL.
COMMENTS:
PROGRAM TYPE IS CONTROL PROGRAM IN SCU. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU. DESIGNED SPECIFICALLY FOR THE NBDE IDS 10 INTERFACE TO A XEROX 530. REQUIRES MODIFICATION TO THE STANDARD XEROX 530 MOCOD AND SKD HANDLER. USES HALF DUPLEX SYNCHRONOUS CC33 AND SLIM. REQUIRES 2K OF CONTROL MEMORY, 512 WORDS OF FAST MEMORY, AND 1152 WORDS OF MAIN MEMORY FOR EACH OF UP TO 12 TERMINALS FOR REFRESH MEMORY.
- 880627 XEROX SCU RELOCATABLE SCU LOADER PROGRAM (RSCULE)
AUTHOR: WESTERN TECHNOLOGY CENTER, XEROX CORPORATION
ABSTRACT:
THE RELOCATABLE SCU LOADER (RSCULE) LOADS PAPER TAPE INPUT (WHICH IS IN SIGMA 5-9 STANDARD OBJECT LANGUAGE FORMAT DERIVED FROM PROGRAMS ASSEMBLED UNDER THE SCU ASSEMBLER WITH THE ASECT DIRECTIVE) INTO CONTROL MEMORY (RAM) AND/OR MAIN MEMORY OF THE SCU.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XEROX SCU.

880602 XEROX SCU SCU MODULE TEST ROUTINES

AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER

ABSTRACT:

THIS ROUTINE TESTS SCU MODULES. THE TEST DATA IS SUPPLIED FROM THE OUTPUT OF THE PARAMETER PREPERATION ROUTINE.

COMMENTS:

PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU METASYMBOL. USING THIS ROUTINE, THE PARAMETER TAPES, AND THE MODULE TEST HARDWARE, SCU LOGIC MODULES ARE TESTED.

- 880605 XEROX SCU SCU DEBUG PROGRAM
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE SCU DEBUG PROGRAM (DEBUG) PROVIDES AN INTERACTIVE SOFTWARE DIAGNOSTIC ROUTINE FOR THE SYSTEM CONTROL UNIT. ITS CAPABILITIES INCLUDE THE DISPLAY AND MODIFICATION OF CONTROL AND SCRATCH PAD/MAIN MEMORIES IN ADDITION TO PROVIDING EXECUTION TIME BREAKPOINTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU META-SYMBOL.
DEBUG REQUIRES A SCU WITH A MAIN MEMORY MODULE, AN ALTERABLE CONTROL MEMORY AND A TELETYPE TERMINAL AND INTERFACE MODULE.
- 880607 XEROX SCU SC411 DIAGNOSTIC PROGRAM
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS KEYBOARD INTERACTIVE AND RUNS STAND ALONE. THE COMPUTER CONNECTED TO THE OTHER END OF THE SC411 CABLES MUST RUN A COMPATIBLE PROGRAM. THIS PROGRAM IS PAL#708489 FOR SIGMA 5/9 COMPUTERS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU META-SYMBOL.
- 880608 XEROX SCU SCU-VECTOR GENERAL INTERFACE DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM VERIFIES THE CORRECT FUNCTIONING OF THE INTERFACE BETWEEN A SYSTEM CONTROL UNIT AND A VECTOR GENERAL GRAPHIC DISPLAY UNIT. THE PROGRAMMED INPUT/OUTPUT FUNCTION, THE REFRESH DATA FUNCTION, AND THE DISPLAY INTERRUPT FUNCTION ARE TESTED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
CONFIGURATION REQUIRED TO RUN THIS PROGRAM IS 9 XEROX GD101A, WHICH INCLUDES THE SCU AND THE V0 DISPLAY.
- 880609 XEROX SCU SCU ROM VERIFICATION PROGRAM
AUTHOR: WESTERN TECHNOLOGY CENTER, XEROX CORPORATION
ABSTRACT:
THE SCU ROM VERIFICATION PROGRAM IS DESIGNED TO TEST AND CONFIRM THE CONTENTS OF A ROM, USING THE MANUFACTURING ACCEPTANCE TEST DUAL SCU SYSTEM. THE PROGRAM READS THE ROM AND A COMPARISON PAPER TAPE CONCURRENTLY AND REPORTS ERRORS ON THE TELETYPE TERMINAL.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU METASYMBOL.
PROGRAM REQUIRES THE MANUFACTURING ACCEPTANCE TEST DUAL SCU CONFIGURATION AND A TELETYPE.
- 880610 XEROX SCU SCU - MFG ACCEPTANCE TEST SYSTEM
AUTHOR: XEROX, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE TEST SYSTEM IS AN OPERATOR CONTROLLED SYSTEM WHICH CONSISTS OF AN ORDERED SET OF TESTS WHICH WHEN EXECUTED DRIVES AND TESTS ANOTHER SCU SO AS TO GIVE ASSURANCE OF WORKABILITY OF THIS SCU-UNDER-TEST.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC OR QUALITY ASSURANCE. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU.
TTY TIED TO MASTER SCU FOR INPUT/OUTPUT FACILITIES. SCU-UNDER-TEST DRIVEN AND TESTED BY MASTER SCU VIA INTERFACE CONNECTOR HARDWARE.
- 880613 XEROX SCU SCU - DIABLO DISK DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC TESTS THE SCU SC433 MODULE AND A DIABLO MODEL 43 OR 44 DISK DRIVE. THIS DIAGNOSTIC MAY ALSO BE USED TO INITIALIZE DISK SURFACES.
COMMENTS:
PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS DIAGNOSTIC REQUIRES A SCU WITH 2K CONTROL MEMORY, AND A MAINTANCE PANEL, AND 1K MAIN MEMORY.
- 880614 XEROX SCU HITYPE PRINTER DIAGNOSTIC PROGRAM
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE HITYPE PRINTER DIAGNOSTIC TESTS THE DEVICE AND CONTROLLER (DIM) ON THE SYSTEM CONTROL UNIT (SCU).
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
REQUIRES 280 WORDS OF CONTROL MEMORY AND 100 WORDS OF MAIN/SCRATCH.
- 880615 XEROX SCU HITYPE HANDLER
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE HITYPE HANDLER IS A GENERAL PURPOSE HANDLER THAT WILL CONTROL THE HITYPE PRINTER.

880615 CONTINUED ON FOLLOWING PAGE

- 880615 HITYPE HANDLER (CONTINUED)
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
REQUIRES 180 WORDS OF CONTROL MEMORY AND 10 WORDS OF MAIN/SCRATCH.
- 880616 XEROX SCU COLOR DISPLAY SYSTEM DIAGNOSTIC PROGRAM
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE COLOR DISPLAY SYSTEM (CDS) DIAGNOSTIC PROGRAM WILL TEST BOTH THE CDS DISPLAY AND KEYBOARD.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
CDS DIAGNOSTIC REQUIRES 500 WORDS OF CONTROL MEMORY AND 1800 WORDS OF MAIN/SCRATCH.
- 880617 XEROX SCU ALFA EMULATOR PROGRAM
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE COLOR DISPLAY SYSTEM (CDS) DIAGNOSTIC PROGRAM WILL TEST BOTH THE CDS DISPLAY AND KEYBOARD.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
CDS DIAGNOSTIC REQUIRES 500 WORDS OF CONTROL MEMORY AND 1800 WORDS OF MAIN/SCRATCH.
- 880618 XEROX SCU SCU NBDE - COIN SLIM FIELD VERIFICATION
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS PROGRAM IS USED TO TEST AND EXERCISE THE SYNCHRONOUS LINE INTERFACE MODULE (SLIM) REPORTING ONLY A 1601 OR 1601-001 STATUS WHEN IT IS ATTACHED TO THE I/O BUS OF THE SCU. THE TEST PERFORMS ONLY IN A SYNCHRONOUS MODE OF COMMUNICATIONS, 7-BIT CHARACTER LENGTH WITH AN 8TH BIT ODD PARITY GENERATION. THE TEST IS PERFORMED WITHIN THE 1601 MODE CAPABILITY OF THE MODULE. A FIXED TRANSMIT BUFFER (32 CHARACTERS) IS CHECKED AGAINST THE RECEIVE BUFFER FOR VALIDATING THE STATUS OF THE SLIM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS FIELD DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XEROX SCU.
- 880619 XEROX SCU XST PORTACORDER TO SCU DRIVER
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE PORTACORDER CASSETTE HANDLER IS A TABLE DRIVEN PROGRAM. IT CONTROLS THE PORTACORDER CASSETTE DEVICE FOR READING AND WRITING 7 BIT DATA AND READING PRE-RECORDED STENO FORMS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE DRIVER REQUIRES 390 WORDS OF CONTROL MEMORY AND 20 WORDS OF MAIN/SCRATCH MEMORY.
- 880620 XEROX SCU SC433/43-44 DISK DRIVER FOR SCU
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS DESIGNED TO BE USED AS A DISK DRIVER BY AN ALPHA 16 PROGRAM RUNNING UNDER THE ALPHA EMULATOR. WITH AN APPROPRIATE CALLING SEQUENCE THE PROGRAM MAY ALSO BE USED IN A STAND-ALONE MODE. THE DRIVER IS DRIVEN BY A FUNCTION PARAMETER TABLE AND WILL READ OR WRITE ONE OR MORE SECTORS INTO A USER BUFFER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS IO DRIVER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THE PROGRAM MUST BE ASSEMBLED WITH THE SCU METASYMBOL PROC DECK. THE DRIVER USES 450 WORDS OF CONTROL MEMORY AND 40 WORDS OF MAIN MEMORY.
- 880621 XEROX SCU KEYBOARD/DISPLAY DRIVER FOR XST
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE SCU KEYBOARD/DISPLAY DRIVER PACKAGE PROVIDES THE USER WITH A DISPLAY DRIVER FOR THE COLOR DISPLAY SYSTEM (CDS) AND A KEYBOARD DRIVER FOR THE XST 105-10 TYPE KEYBOARD. THE CDS DESCRIPTION DOCUMENT IS DRAWING #208205. THE KEYBOARD DESCRIPTION DOCUMENT IS DRAWING #207728.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DRIVER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THESE DRIVERS REQUIRE 2K OF MAIN MEMORY AND 512 WORDS OF CONTROL MEMORY.
- 880622 XEROX SCU XST STENOTYPYER TO SCU DIAGNOSTIC
AUTHOR:XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC READS STROKES FROM AN XST STENOTYPYER AND PRINTS THE STROKES IN A READABLE FORM ON A DIABLO PRINTER. VARIOUS ERROR CONDITIONS ARE INDICATED BY ERROR MESSAGES LOGGED TO THE PRINTER.
COMMENTS:

880622 CONTINUED ON FOLLOWING PAGE

- 880622 XST STENO TYPER TO SCU DIAGNOSTIC (CONTINUED)
THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN METASYMBOL.
THE DIAGNOSTIC RUNS STAND-ALONE. THE DIAGNOSTIC USES 750 WORDS OF CONTROL MEMORY AND 100 WORDS OF MAIN
MEMORY.
- 880623 XEROX SCU XST STENO TYPER TO SCU DRIVER
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS DESIGNED TO BE USED AS A STENO TYPER DRIVER BY AN ALPHA 18 PROGRAM RUNNING UNDER THE
ALPHA EMULATOR. WITH AN APPROPRIATE CALLING SEQUENCE, THE PROGRAM MAY ALSO BE USED IN A STAND-ALONE
MODE. THE DRIVER IS DRIVEN BY A FUNCTION PARAMETER TABLE AND WILL READ ONE OR MORE STENO STROKES INTO A
USER BUFFER.
COMMENTS:
THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN METASYMBOL.
THE DRIVER PACKS THE 23 BITS GENERATED BY THE STENO INTO A FORMAT DESCRIBED IN THE -11. THE DRIVER USES
200 WORDS OF CONTROL MEMORY AND 30 WORDS OF MAIN MEMORY.
- 880624 XEROX SCU XST CASSETTE TAPE TO SCU DIAGNOSTIC
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS DIAGNOSTIC READS STENO STROKES FROM AN XST CASSETTE TAPE AND PRINTS THEM IN A READABLE FORM ON THE
DIABLO PRINTER. ALSO THE DIAGNOSTIC WILL WRITE DATA RECORDS ON A TAPE AND THEN READ AND VERIFY THE
RECORDS. THE DIAGNOSTIC WILL ALSO TEST DEVICE STATUS AND PRINT ERROR MESSAGES WHERE REQUIRED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER SCU OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
PROGRAM IS WRITTEN IN METASYMBOL.
THE DIAGNOSTIC USES 1500 WORDS OF CONTROL MEMORY AND 300 WORDS OF MAIN MEMORY. THE DIAGNOSTIC RUNS
STAND-ALONE. A HY-TYPE PRINTER IS REQUIRED.
- 880625 XEROX SCU SYNCHRONOUS LINE INTERFACE MODULE TEST
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THIS PROGRAM IS OPERATED VIA THE SCU OPERATOR'S PANEL ONLY AND IS USED TO TEST AND EXERCISE THE
SYNCHRONOUS LINE INTERFACE MODULE (SLIM). THE SYNCHRONOUS, ISOCHRONOUS, OR ASYNCHRONOUS MODE OF
COMMUNICATIONS WITH EVEN/ODD PARITY SELECTION AND PARITY INHIBIT/NO INHIBIT SELECTIONS ARE ALLOWED.
COMMENTS:
THIS PROGRAM WILL RUN UNDER STAND-ALONE OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE
MAIN PROGRAM IS WRITTEN IN SCU.
THE PROGRAM USES 500 WORDS OF CONTROL MEMORY AND 200 WORDS OF MAIN MEMORY.
- 880628 XEROX SCU SCU FUNCTION GENERATOR PROGRAM
AUTHOR: XEROX CORPORATION, WESTERN TECHNOLOGY CENTER
ABSTRACT:
THE FUNCTION GENERATOR PROGRAM IS A SOFTWARE PROCESSOR, OPERATING IN THE SCU (SYSTEMS CONTROL UNIT),
WHICH WILL GENERATE VALUES FOR FUNCTIONS OF 1, 2, OR 3 INDEPENDENT VARIABLES USING LINEAR INTERPOLATION.
THE PROGRAM IS DESIGNED TO BE USED IN CONJUNCTION WITH A USER PROGRAM EXECUTING IN THE SIGMA 5-9.
COMMENTS:
THIS PROGRAM WILL RUN UNDER SCU (IN CONJUNCTION WITH SIGMA 5-9) OPERATING SYSTEM. PROGRAM TYPE IS
SCIENTIFIC PROCESSOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SCU ASSEMBLY LANGUAGE.

PROGRAM AVAILABILITY LIST

XEROX 1200
KWIC INDEX

KEY	TITLE	CAT.NO	CL	KEY	TITLE	CAT.NO	CL
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	CPU INSTRUCTION TEST...MODULE 8. EXTENDED	880559	B1		MODULE...PRINTER CONTROL PROGRAM	880503	B1
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	MODULE 2. BASIC CPU TEST...	880553	B1		3. TCI FUNCTIONAL TEST...MODULE	880554	B1
	MODULE 3. TCI FUNCTIONAL TEST...	880554	B1		4. TCI RANDOM EXERCISER...MODULE	880555	B1
	MODULE 4. TCI RANDOM EXERCISER...	880555	B1		5. PSCI FUNCTIONAL TEST...MODULE	880556	B1
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	MODULE 6. PSCI UTILITY TEST...	880557	B1		7. CONTROL PANEL TEST...MODULE	880558	B1
	MODULE 7. CONTROL PANEL TEST...	880558	B1		8. EXTENDED CPU INSTRUCTION TEST...MODULE	880559	B1

- 880500 XEROX 1200 PRINTER CONTROL PROGRAM (PCP)**
AUTHOR: XEROX
ABSTRACT:
THE XEROX 1200 PRINTER CONTROL PROGRAM IS A DEDICATED, REAL-TIME OPERATING SYSTEM WHICH CONTROLS THE COMPLETE OFF-LINE PRINTING SYSTEM INCLUDING THE INPUT, VERIFICATION, AND CONVERSION OF CERTAIN CUSTOMER GENERATED DATA FORMATS, THE PRINTING OF SAID DATA AND THE SUPERVISION OF THE ELECTROMECHANICAL NON-IMPACT XEROGRAPHIC PRINTING AND OUTPUT COLLECTION MECHANISMS. THE PCP CAN ALSO BE USED IN CONJUNCTION WITH THE CP-V OPERATING SYSTEM TO PROVIDE CONTROL OF THE XEROX 12XX COMPUTER PRINTING SYSTEM OPERATING ON-LINE TO A XEROX COMPUTER SYSTEM CAPABLE OF SUPPORTING THE CP-V OPERATING SYSTEM. THE SYSTEM TEST TAPE CONSISTS OF JDL FILE AND 12 DATA FILES TO BE USED AS INPUT TO THE XEROX 1200 CPS. THE TAPE WILL TEST THE LIMITS OF PCP DATA PROCESSING FUNCTIONS AS REQUIRED BY VARIATIONS IN THE INPUT DATA STREAM. IT WILL ASSESS THE GENERAL OPERATIONAL STATUS OF THE XEROX 1200 CPS. THE TAPE WILL NOT TEST PCP ERROR HANDLING CAPABILITIES; MULTI-VOLUME SEQUENCE; AND IS NOT A SYSTEM EXERCISOR BUT A SUPPLEMENT TO THE XEROX 1200 DSS.
THE TAPE REQUIRES FULL OPERATIONAL XEROX 1200 CPS FOR ES EXECUTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN ALPHA-16 ASSY. LANGUAGE. THE XEROX 1200 PRINTER CONTROL PROGRAM IS CONSIDERED TO BE A [XEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880502 XEROX 1200 PCP LOADER & INITIALIZATION PROG. MODULE**
AUTHOR: XEROX
ABSTRACT:
THE PCP LOADER AND INITIALIZATION PROGRAM MODULE LOADS THE PRINTER CONTROL PROGRAM MODULE AND THE JOB DESCRIPTOR LIBRARY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN ALPHA-16 ASSY. LANGUAGE.
THE XEROX 1200 PRINTER CONTROL PROGRAM IS CONSIDERED TO BE A [XEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880503 XEROX 1200 PRINTER CONTROL PROGRAM MODULE**
AUTHOR: XEROX
ABSTRACT:
THE PRINTER CONTROL PROGRAM MODULE CONTROLS THE ON-LINE XEROX 1200 COMPUTER PRINTING SYSTEMS AND THE OFF-LINE XEROX 1200 COMPUTER PRINTING SYSTEM.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN ALPHA-16 ASSY. LANGUAGE.
THE XEROX 1200 PRINTER CONTROL PROGRAM IS CONSIDERED TO BE A [XEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMERS.
- 880505 XEROX 1200 EXTENDED PRINTER CONTROL PROGRAM (EPCP)**
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 1200 EXTENDED PCP IS A DEDICATED, REAL-TIME OPERATING SYSTEM WHICH CONTROLS THE COMPLETE OFF-LINE COMPUTER PRINTING SYSTEM INCLUDING THE INPUT, VERIFICATION, AND CONVERSION OF CERTAIN CUSTOMER GENERATED DATA FORMATS, THE PRINTING OF SAID DATA AND THE SUPERVISION OF THE ELECTROMECHANICAL NON-IMPACT XEROGRAPHIC PRINTING AND OUTPUT COLLECTION MECHANISMS. THE PCP CAN ALSO BE USED IN CONJUNCTION WITH THE CP-V OPERATING SYSTEM TO PROVIDE CONTROL OF THE XEROX 12XX COMPUTER PRINTING SYSTEM OPERATING ON-LINE TO A XEROX COMPUTER SYSTEM CAPABLE OF SUPPORTING THE CP-V OPERATING SYSTEM. THE SYSTEM TEST TAPE CONSISTS OF 12 DATA FILES TO BE USED AS INPUT TO THE XEROX 1200 CPS. THE TAPE WILL TEST THE LIMITS OF EPCP DATA PROCESSING FUNCTIONS AS REQUIRED BY VARIATIONS IN THE INPUT DATA STREAM. IT WILL ASSESS THE GENERAL OPERATIONAL STATUS OF THE XEROX 1200 CPS. THE TAPE WILL NOT TEST EPCP ERROR HANDLING CAPABILITIES; MULTI-VOLUME SEQUENCE; AND IS NOT A SYSTEM EXERCISOR BUT A SUPPLEMENT TO THE XEROX 1200 DSS. THE TAPE REQUIRES FULLY OPERATIONAL XEROX 1200 CPS FOR EXECUTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER S/A OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN ALPHA-16 ASSY.
THE XEROX 1200 EXTENDED PCP IS CONSIDERED TO BE A [XEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880550 XEROX 1200 DIAGNOSTIC SOFTWARE SYSTEM (DSS)**
AUTHOR: XEROX CORPORATION
ABSTRACT:
THE XEROX 1200 DIAGNOSTIC SOFTWARE SYSTEM IS TO BE USED BY XEROX FIELD SERVICE PERSONNEL AS AN AID DURING THE COURSE OF PREVENTATIVE AND EMERGENCY MAINTENANCE PROCEDURES. DSS PROVIDES TESTING CAPABILITIES FOR UP TO THREE LEVELS OF PROBLEM DIAGNOSIS - UTILITY TESTS, RANDOM TESTS AND FUNCTIONAL TESTS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER XEROX 1200 OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN BETA-8. THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A [XEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880551 XEROX 1200 READ ONLY MEMORY BOOTSTRAP LOADER**
AUTHOR: XEROX
ABSTRACT:
THE ROM PROGRAM PROVIDES A MINIMUM SET OF TESTS TO VERIFY THE OPERATION OF THE CPU, MEMORY, TAPE CONTROL INTERFACE (TCI) AND TAPE STATION PRIOR TO A PROGRAM LOAD. IT ALSO CONTROLS AND VERIFIES THE LOADING OF

880551 CONTINUED ON FOLLOWING PAGE

- 880551 READ ONLY MEMORY BOOTSTRAP LOADER (CONTINUED)
THE FIRST RECORD FROM TAPE.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NO BE AVAILABLE TO THE CUSTOMER.
- 880552 XEROX 1200 MODULE 1. DSS SUPERVISOR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES COMMUNICATION AND CONTROL BETWEEN THE USER AND THE DIAGNOSTIC SOFTWARE SYSTEM. SELECTS AND LOADS THE DIAGNOSTIC PROGRAM MODULE TO BE EXECUTED NEXT AND PERFORMS THE NEXT LEVEL OF DIAGNOSTIC TESTING AFTER EXECUTION OF THE ROM PROGRAM.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTNGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880553 XEROX 1200 MODULE 2. BASIC CPU TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CPU IN A BASIC, STRAIGHT FORWARD MANNER BY EXECUTING A SERIES OF SIMPLE, SEQUENTIAL AND NON-EXHAUSTIVE TEST DESIGNED TO CHECK THOSE HARDWARE ELEMENTS INVOLVED IN INSTRUCTION EXECUTION. IT ALSO CHECKS THE READ ONLY MEMORY. (ROM) FOR CORRECT CONTENTS AND IT TESTS THE REAL TIME CLOCK (RTC) TO ASSURE THAT IT CAN PROVIDE INTERRUPTS AT 10 +.004 MSEC INTERVALS.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880554 XEROX 1200 MODULE 3. TCI FUNCTIONAL TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF FUNCTIONAL TESTS TO DETECT SOLID AND INTERMITTENT FAILURES IN THE TAPE CONTROL INTERFACE (TCI) AND IN THE TAPE STATION. IT IS DESIGNED TO CHECK INDIVIDUAL FUNCTIONAL SECTIONS OF LOGIC, SO THAT FAILURES CAN BE ISOLATED TO A SPECIFIC FUNCTION. SIMPLE FUNCTIONS ARE CHECKED FIRST, AND THEN USED TO VERIFY MORE COMPLEX FUNCTIONS, THUS PYRAMIDING FUNCTION TESTING.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880555 XEROX 1200 MODULE 4. TCI RANDOM EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF RANDOM AND UTILITY TESTS TO DETECT SOLID AND INTERMITTENT FAILURES UNDER CONDITIONS SIMILAR TO THAT OF THE PRINTER CONTROL PROGRAM (PCP) OPERATING ENVIRONMENT.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880556 XEROX 1200 MODULE 5. PSCI FUNCTIONAL TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF FUNCTIONAL TESTS TO DETECT SOLID AND INTERMITTENT FAILURES IN THE PSCI'S LOGIC AND TRACKING MECHANISM. IT IS DESIGNED TO CHECK INDIVIDUAL FUNCTIONAL SECTIONS OF THE LOGIC SO THAT FAILURES CAN BE ISOLATED TO A SPECIFIC FUNCTION. IT DOES THIS FIRST BY CHECKING SIMPLE FUNCTIONS. THEN IT USES THESE CHECKED OUT FUNCTIONS TO VERIFY MORE COMPLEX FUNCTIONS, THUS BUILDING TESTING ON PREVIOUSLY CHECKED FUNCTIONS.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880557 XEROX 1200 MODULE 6. PSCI UTILITY TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A COMPREHENSIVE SET OF UTILITY TESTS TO DETECT SOLID AND INTERMITTENT FAILURES UNDER PAPER MOTION AND PATTERN CONDITIONS SIMILAR TO THAT OF THE PRINTER CONTROL PROGRAM (PCP) OPERATING ENVIRONMENT.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A IXEROX RESTRICTED PROPRIETARY PROGRAM] ALTHOUGH NO LICENSING AGREEMENT JS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

- 880558 XEROX 1200 MODULE 7. CONTROL PANEL TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS FOR INTERACTIVELY TESTING AND VISUALLY CONFIRMING THE PROPER OPERATION OF ALL SWITCHES, INDICATORS, AND DISPLAYS ON THE ALPHA-16 CONSOLE AND ALL PROGRAM CONTROLLABLE SWITCHES, INDICATORS, AND DISPLAYS ON THE OPERATOR CONTROL PANEL.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A XEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.
- 880559 XEROX 1200 MODULE 8. EXTENDED CPU INSTRUCTION TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CPU BY EXECUTING A SERIES OF SEQUENTIAL AND EXHAUSTIVE TESTS DESIGNED TO CHECK ALL POSSIBLE BIT CONFIGURATIONS OF THOSE CPU REGISTERS AND INSTRUCTION WORD FIELDS INVOLVED IN THE EXECUTION OF A PARTICULAR INSTRUCTION.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A XEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMERS.
- 880567 XEROX 1200 TMTD TEST MONITOR/TEST DRIVER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM CONSISTS OF TWO SUBROUTINES (THE TEST MONITOR AND THE TEST DRIVER) WHICH ARE USED BY OTHER PROGRAM MODULES DURING THE COURSE OF DIAGNOSTIC TESTING. THE TEST MONITOR INTERFACES WITH THE SUPERVISOR AND IS USED TO TRANSFER CONTROL TO THE TEST SELECTED BY THE USER. THE TEST DRIVER IS USED TO PERFORM I/O OPERATIONS DURING DIAGNOSTIC TESTING OF BOTH THE MAGNETIC TAPE AND PRINTER/STACKER UNITS.
COMMENTS:
THE XEROX DIAGNOSTIC SOFTWARE SYSTEM IS CONSIDERED COLLECTIVELY AS A XEROX RESTRICTED PROPRIETARY PROGRAM! ALTHOUGH NO LICENSING AGREEMENT IS REQUIRED. PROGRAM LISTINGS WILL NOT BE AVAILABLE TO THE CUSTOMER.

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- 880011 CF-16 CORE MEMORY DIAGNOSTIC - CMD
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
CMD TESTS ALL OF CORE MEMORY FOR PICKED UP OR DROPPED BITS AND VERIFIES MEMORY ADDRESSING. CONTROLS ARE AVAILABLE FOR SPECIFYING THE BLOCK OF MEMORY UPON WHICH TESTS ARE TO BE RUN AND WHICH TESTS ARE TO BE PERFORMED. DIAGNOSTIC PRINTOUTS ARE MADE ON TELETYPE TO IDENTIFY ERRORS.
COMMENTS:
CMD IS LOADED BY BLD AT LOCATION :800 AND RUNS FROM :900. CMD AUTOMATICALLY RELOCATES ITSELF TO TEST ALL OF CORE. PROGRAM RESIDENCE IS 175 LOCATIONS.
- 880012 CF-16 INSTRUCTION DIAGNOSTIC PROGRAM - IDP
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
IDP EXERCISES ALL PROCESSOR LOGIC TO VERIFY FUNCTIONAL PERFORMANCE. TESTS ARE PERFORMED SERIALLY. EACH TEST EXERCISES A SMALL SECTION OF THE PROCESSOR, AND RESULTS ARE IMMEDIATELY VERIFIED. IF THE VERIFICATION FAILS, IDP IS HALTED AND THE CONTENTS OF REGISTERS COMBINED WITH THE IDP LISTING PROVIDE THE BASIS FOR FAILURE ANALYSIS. THE PROGRAM MAY BE LOOPED ON THE FAILED TEST FOR A TROUBLESHOOTING AID.
COMMENTS:
IDP IS SUPPLIED ON ABSOLUTE BINARY TAPE WHICH LOADS AT :F0 AND RUNS FROM :100.
- 880013 CF-16 TELETYPE DIAGNOSTIC - TDP
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
TDP TESTS ALL TELETYPE I/O LOGIC AND CHECKS THE READER, PUNCH, AND PRINTER FOR ALL POSSIBLE CHARACTER CODES (0-FF). THE KEYBOARD INPUT IS CHECKED FOR ANY CHARACTERS THE USER MAY CHOOSE TO TEST. TDP VERIFIES ALL I/O FUNCTIONS.
COMMENTS:
TDP LOADS AT LOCATION :100 VIA THE BLD BINARY LOADER AND OCCUPIES :175 LOCATIONS.
- 880014 CF-16 HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
HSPTD IS THE DIAGNOSTIC PROGRAM FOR THE HIGH SPEED PAPER TAPE SYSTEMS. THE PROGRAM WILL TEST THE HIGH SPEED READER ALONE, OR IN CONJUNCTION WITH THE HIGH SPEED PUNCH. THE PUNCH PORTION REQUIRES A HIGH SPEED READER TO VERIFY THE PUNCH OUTPUT.
COMMENTS:
- 880015 CF-16 M-1 MATH PACKAGE
AUTHOR: XEROX
ABSTRACT:
M-1 CONTAINS TWELVE (12) COMMON SINGLE AND DOUBLE PRECISION ARITHMETIC FUNCTIONS. THESE ROUTINES ARE EXTERNAL (DEF) ROUTINES, AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).
COMMENTS:
REFER TO XEROX PUBLICATION #901838 FOR A DESCRIPTION OF THE ROUTINES.
- 880016 CF-16 M-2 MATH PACKAGE
AUTHOR: XEROX
ABSTRACT:
M-2 CONTAINS TWELVE MATHEMATICAL FUNCTIONS IN OBJECT FORMAT. THESE ROUTINES ARE EXTERNAL ROUTINES (DEF) AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).
COMMENTS:
REFER TO XEROX PUBLICATION #901838 FOR A DESCRIPTION OF THE ROUTINES.
- 880018 CF-16 FORTRAN COMPILER
AUTHOR: XEROX
ABSTRACT:
FORTRAN IS COMPATIBLE WITH ANSI BASIC FORTRAN WITH THE VARIATIONS AS NOTED IN APPENDIX A OF THE BASIC FORTRAN REFERENCE MANUAL (#901735).
COMMENTS:
FORTRAN GENERATES OBJECT TAPES OF MAIN BODY PROGRAMS AND SUBROUTINES. THESE OBJECT TAPES ARE LOADED BY FOLL.
- 880019 CF-16 FOLL FORTRAN OBJECT LANGUAGE LOADER
AUTHOR: XEROX
ABSTRACT:
FOLL IS USED TO LOAD FORTRAN GENERATED OBJECT TAPES, SUBROUTINES, AND REQUIRED RUN TIME SYSTEM ROUTINES.
COMMENTS:
FOLL IS SUPPLIED AS A RELOCATABLE BINARY TAPE WITH A LOAD POINT OF :DE0.

- 880020 CF-16 RTS RUN TIME SYSTEM
AUTHOR: XEROX
ABSTRACT:
THE FORTRAN RUN TIME SYSTEM CONTAINS ALL OF THE SUBROUTINES REQUIRED BY THE CF16 BASIC FORTRAN.
COMMENTS:
RUN TIME SYSTEM SUBROUTINES ARE LOADED AND LINKED BY FOLL.
- 880080 CF-16 OE16D - OE16 DIAGNOSTIC
AUTHOR: XEROX, SYSTEMS ENGINEERING
ABSTRACT:
THIS PROGRAM IS DESIGNED TO ALLOW TESTING AND TROUBLESHOOTING OF THE OE16.
COMMENTS:
TWO CF16 COMPUTERS WITH OE16'S MUST BE USED WHEN RUNNING THIS PROGRAM. THE BINARY PAPER TAPE SUPPLIED IS FOR A OE16 WITH A DEVICE ADDRESS 0 :98, AND A BASE INTERRUPT ADDRESS OF :50.
- 880086 CF-16 OE15/16 DEMONSTRATION PROGRAM
AUTHOR: XEROX, SYSTEMS ENGINEERING
ABSTRACT:
THE OE15/16 DEMO PROGRAM IS USED TO DEMONSTRATE THE CORRECT OPERATION OF AN OE15 OR OE16. THE PROGRAM HAS 4 MODES OF OPERATION, SINGLE TRANSFER OF INPUT DATA, CONTINUES TRANSFER OF INPUT DATA, CONTINUES TRANSFER OF A VARYING BIT PATTERN, AND CONTINUES TRANSFER OF A FIXED PATTERN USING BLOCK I/O.
COMMENTS:
THIS PROGRAM REQUIRES 2 IDENTICAL CF16 SYSTEMS. EACH SYSTEM MUST HAVE AT LEAST 4K OF CORE, A TTY, AND THE SAME TYPE OF INTERCOMPUTER INTERFACE, OE15, OR OE16.
- 880087 CF-16 OE5/6D - OE15-OE16 I/O HANDLER
AUTHOR: XEROX, SYSTEMS ENGINEERING
ABSTRACT:
THIS HANDLER IS USED TO DRIVE EITHER AN OE15 OR AN OE16. THE COMPUTER CONNECTED TO THE OE15/16 MUST HAVE A COMPATIBLE HANDLER. THIS HANDLER INCORPORATES A HANDSHAKING, ERROR DETECTING, VERIFICATION PROTOCOL.
COMMENTS:
THIS HANDLER IS SELF-CONTAINED, REQUIRES :113 LOCATIONS IN UPPER CORE, AN :A LOCATIONS STARTING WITH THE DEVICE INTERRUPT ADDRESS. CALLING THE HANDLER IS DONE WITH A PARAMETER LIST TECHNIQUE. THE HANDLER USES THE AUTO I/O MODE, AND CAN BE USED IN REAL-TIME APPLICATIONS.
- 880089 CF-16 SIG16 - CF16 - SIGMA 3 DEMO
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
SIG16 IS A DEMONSTRATION PROGRAM TO VERIFY THE DATA TRANSFERS BETWEEN A CF16 COMPUTER AND A SIGMA 3 COMPUTER. THE CF16 COMPUTER REQUIRES A PE15 MODULE. THE SIGMA 3 COMPUTER REQUIRES A MI/OP AND A 7008.
COMMENTS:
PROGRAM #708147 MUST BE RUN ON THE SIGMA 3. SIG16 IS SUPPLIED ON BINARY TAPE.
- 880090 CF-16 OE1410 - OE14 I/O HANDLER
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS IS THE I/O HANDLER SUBROUTINES FOR THE OE14 MODULE. THE SUBROUTINES ARE DIVIDED INTO TWO CATEGORIES: SINGLE WORD I/O ROUTINE, AND MULTIPLE WORD I/O ROUTINES.
COMMENTS:
THESE SUBROUTINES ARE SUPPLIED IN OBJECT FORM ON PAPER TAPE, WITH THE SINGLE WORD I/O ROUTINE FIRST AND SEPARATED FROM THE MULTIPLE I/O ROUTINES BY 12 INCHES OF BLANKS.
- 880091 CF-16 OE14D - OE14 DIAGNOSTIC
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS IS A VERIFICATION PROGRAM WHICH TESTS THE OPERATION OF THE OE14 MODULE. ALL OE14 COMMANDS AND DATA PATHS ARE TESTED AND FAILURES ARE REPORTED ON TELETYPE. THE PROGRAM MAY BE SET TO LOOP AND EXERCISE THE FAILED CONDITION.
COMMENTS:
OE14D IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE TO BE LOADED BY 8LD. THE PROGRAM IS LOADED IN TWO SECTIONS STARTING AT :40 AND :200 AND THE LAST LOCATION USED IS :388. ENTRY POINT IS :200.
- 880092 CF-16 PE2010 - PE20 I/O DRIVER
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
THE PE20 I/O PROGRAM IS A MULTIMODE DRIVER FOR THE PE20 MODULE. THE PROGRAM HAS THE CAPABILITY OF DRIVING THE PE20 IN ANY OF ITS 24 MODES OF OPERATION.
COMMENTS:
THE PE20 I/O PROGRAM OCCUPIES 211 HEX. LOCATIONS. THE PROGRAM IS SUPPLIED IN OBJECT FORM ON PAPER TAPE.
- 880093 CF-16 PE20FD - PE20 FIELD DIAGNOSTIC
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
THE PE20FD IS A FIELD CHECKOUT AND VERIFICATION PROGRAM FOR THE PE20 MODULE. ANY ONE OF THE 24 MODES OF

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- 880093 PE20FD - PE20 FIELD DIAGNOSTIC (CONTINUED)
OPERATION MAY BE SELECTED FOR TESTING.
COMMENTS:
THE PE20FD IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE, TO BE LOADED BY BLD. THE PROGRAM IS LOADED STARTING AT ADDRESS :100, AND CONTINUES THROUGH LOCATION :3E7.
- 880094 CF-16 PE20MD - PE20 MANUFACTURING DIAGNOSTIC
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THE PE20MD IS A MANUFACTURING CHECKOUT PROGRAM THAT TESTS THE OPERATION OF THE PE20 ANALOG INPUT COUPLER. ALL DATA PATHS AND COMMANDS ARE TESTED. FAILURES ARE LISTED ON THE TELETYPE. THE PROGRAM MAY BE SET TO LOOP ON THE ERROR CONDITION.
COMMENTS:
THE PE20MD IS SUPPLIED ON ABSOLUTE BINARY PAPER TAPE, TO BE LOADED BY BLD. THE PROGRAM IS LOADED STARTING AT LOCATION :F1, AND CONTINUES THROUGH :77F. THE PE20 TURNAROUND CABLE MUST BE USED WHEN RUNNING THIS TEST.
- 880095 CF-16 PE2510 - PE25 I/O HANDLER
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS ROUTINE HANDLES THE I/O INSTRUCTIONS NECESSARY TO DRIVE A PE25-DAC SYSTEM.
COMMENTS:
THIS I/O HANDLER ALLOWS THE SYSTEM PROGRAMMER TO USE LOGICAL I/O WHEN EXERCISING THE PE25-DAC SYSTEM. THE MODE OF OPERATION IS SPECIFIED BY A PARAMETER AT HANDLER CALL TIME.
- 880096 CF-16 PE25FD - PE25 FIELD DIAGNOSTIC
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THE PE25 FIELD DIAGNOSTIC IS USED TO VERIFY THE PROPER OPERATION OF A DIGITAL TO ANALOG SUBSYSTEM ATTACHED TO A CF16 COMPUTER.
COMMENTS:
THE PE25FD PROGRAM WILL GENERATE SELECTABLE PATTERNS ON THE OUTPUT OF DAC CHANNEL. THE CORRECTNESS OF THE PATTERNS ARE VERIFIED BY USE OF AN OSCILLOSCOPE.
- 880098 CF-16 CROSS ASSM. OBJECT CONVERTER - CROSCNV
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
CROSCNV CONVERTS CROSS ASSEMBLER OBJECT TAPES TO ROLL FORMAT COMPATIBLE TAPES.
COMMENTS:
CROSCNV CONVERTS 4 LEVEL OBJECT TAPE TO 8 LEVEL OBJECT TAPES. THE FORMAT OF THE 8 LEVEL TAPE IS THE SAME FORMAT THAT ABLE PRODUCES.
- 880099 CF-16 CROLL
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
CROLL IS A MODIFIED VERSION OF ROLL. CROLL WILL ACCEPT OBJECT TAPE FORMATTED BY THE TERMINAL VERSION OF THE CROSS ASSEMBLER.
COMMENTS:
CROLL REPLACES ROLL WHEN USING OBJECT TAPES PRODUCED BY THE CROSS ASSEMBLER.
- 880100 CF-16 ANALOG PERFORMANCE TEST - APT
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
APT IS A PROGRAM FOR TESTING THE CD51/DM40 COMBINATION ON A CF16 COMPUTER. APT ACQUIRES DATA FROM 'N' CHANNELS OF THE CD51/DM40 AND REDUCES IT TO TWO STATEMENTS FOR EACH CHANNEL: (1) MEAN VALUE OF 1024 SAMPLES AND (2) A HISTOGRAM OF 1024 SAMPLES ABOUT THE MEAN VALUE. A MAXIMUM OF 62 CHANNELS TESTED.
COMMENTS:
COMPUTER CONFIGURATION: CF16, 4K, TELETYPE, PE20, CD51/DM40. SUBROUTINES USED: NONE. STORAGE: :ABC
LOCATIONS: :C4-:B2F. LOADING PROCEDURE:BLD.

PROGRAM AVAILABILITY LIST

CF-16 CLASS B3
PROGRAM SUMMARIES

- 880085 CF-16 CF-16 MINIDISC DIAGNOSTIC
AUTHOR: XEROX WESTERN TECHNOLOGY CENTER
ABSTRACT:
TEST AND VERIFY THE 727 MINIDISC ELECTRONICS AND PE80 MINIDISC CONTROLLER UNDER THE CONTROL OF A CF-16 COMPUTER.
COMMENTS:
MINIMUM REQUIREMENTS INCLUDE 4K CORE MEMORY, TELETYPE WITH PAPER TAPE READER, 727 MINIDISC AND PE80 CONTROLLER.
- 880088 CF-16 SIGMA 3-CF16 INTERCOMMUNICATION DEMO
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM GIVES A DEMO OF MESSAGE TRANSMISSION BETWEEN SIGMA 3 AND CF16.
COMMENTS:
HARDWARE REQUIREMENTS: SIGMA 2/3 WITH TELETYPE, MODEL 7930 OR 7935 SIU, CF16 WITH TELETYPE, MODEL OE15.
THIS PROGRAM MUST OPERATE IN CONJUNCTION WITH SIGMA 3-CF16 INTERCOMMUNICATION DEMO PROGRAM FOR S103.

- 880000 CF-16 ASSEMBLER - ABLE
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM IS THE TELETYPE STAND-ALONE VERSION OF THE CF16 ABLE ASSEMBLER. IT READS SYMBOLIC SOURCE LANGUAGE, CONVERTS IT TO MACHINE LANGUAGE (OBJECT) PROGRAMS, OUTPUTS THE OBJECT PROGRAM ON PAPER TAPE AND PRINTS AN ASSEMBLY LISTING ON TELETYPE. THE OBJECT PROGRAM MAY BE LOADED BY THE ROLL LOADER.
COMMENTS:
ABLE IS SUPPLIED ON ABSOLUTE BINARY TAPE TO BE LOADED BY THE BLD BINARY LOADER. ABLE CONTROLS IN A 4K CF16 WITH TELETYPE. RESIDENCY IS APPROXIMATELY 2500 WORDS. ADJUSTMENT TO OPERATE WITH HIGH SPEED PAPER TAPE IS MADE THROUGH A SIMPLE OPERATOR ROUTINE WHICH IS PART OF ABLE. ABLE PROCEDURES ARE DEFINED IN PUBLICATION 901367A. ABLE LOADS AT LOCATION :20 AND RUNS FROM :100.
- 880004 CF-16 BINARY LOAD/DUMP - BLD/BDP
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
BLD/BDP IS THE BASIC CF16 BINARY LOAD/DUMP (PUNCH) AND VERIFY PROGRAM. ALL CF16 BINARY PAPER TAPES MAY BE LOADED VIA BLD. BDP PUNCHES BLD COMPATIBLE PAPER TAPE. THE VERIFY ROUTINE MAY BE USED TO VERIFY ANY BINARY TAPE PUNCHED BY BDP.
COMMENTS:
BLD/BDP IS SUPPLIED ON BINARY RELOCATABLE TAPE. IN A 4K SYSTEM IT IS ORDINARILY LOADED AT FA0 BY BOOT. THE LOADER AND VERIFY RUN FROM THE LOAD ADDRESS (NOMINALLY FA0) AND DUMP RUNS FROM 48 LOCATIONS HIGHER (NOMINALLY FD0). BLD/BDP OCCUPIES 88 LOCATIONS.
- 880005 CF-16 RELOCATABLE OBJECT LANGUAGE LOADER-ROLL
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM IS THE PAPER TAPE OBJECT LANGUAGE LOADER WHICH IS REQUIRED TO LOAD AND LINK RELOCATABLE OBJECT TAPES PRODUCED BY THE ABLE ASSEMBLER. SUCCEEDING PROGRAM MODULES ARE LOADED AT THE NEXT AVAILABLE MEMORY LOCATION AND ENTRY POINTS OF EXTERNAL SUB-PROGRAMS ARE LISTED ON THE TELETYPE. LOADING ERRORS OBJECT TAPES PRODUCED BY THE ABLE ASSEMBLER. SUCCEEDING PROGRAM MODULES ARE LOADED AT THE NEXT AVAILABLE MESSAGE.
COMMENTS:
ROLL IS AVAILABLE ON EITHER ABSOLUTE BINARY OR RELOCATABLE OBJECT PAPER TAPE. THE STANDARD ABSOLUTE BINARY VERSION LOADS AT C10 AND OCCUPIES APPROXIMATELY 475 WORDS OF MEMORY. ROLL LOADS AT 100 AND RUNS FROM 100.
- 880006 CF-16 DEBUG - DBUG
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
DBUG IS AN ON-LINE CONVERSATIONAL UTILITY PROGRAM USED AS AN AID IN TEST AND MODIFICATION OF USER GENERATED PROGRAMS. FACILITIES INCLUDE SEARCH, MODIFY, PRINT, BREAKPOINTS, REGISTER DISPLAY, ETC. EIGHTEEN BASIC DBUG COMMANDS FACILITATE PROGRAM ADJUSTMENTS.
COMMENTS:
DBUG IS SUPPLIED ON BINARY RELOCATABLE PAPER TAPE. ON 4K SYSTEMS DBUG IS ORDINARILY LOADED AT DF0 AND OCCUPIES 331 LOCATIONS. IT MAY BE OPERATED AT ANY OTHER LOCATION BY LOADING AT AN ARBITRARY START ADDRESS VIA BLD. DBUG IS ENTERED AT THE LOAD ADDRESS.
- 880007 CF-16 SOURCE TAPE PREPARATION - STP
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THIS PROGRAM PROVIDES A METHOD FOR PREPARING AND/OR EDITING SOURCE TAPES FOR INPUT TO THE ABLE ASSEMBLER OR THE FORTRAN COMPILER. SOURCE LINES ARE ENTERED FROM THE TTY KEYBOARD, THE TTY TAPE READER, OR THE HIGH SPEED TAPE READER. EDITING AND CONTROL IS ACCOMPLISHED FROM THE TTY KEYBOARD. THE NEW SOURCE TAPE IS PUNCHED ON THE TTY PUNCH OR THE HIGH SPEED TAPE PUNCH. STP RESPONDS TO 22 BASIC COMMANDS.
COMMENTS:
STP IS SUPPLIED ON OBJECT TAPE AND BINARY TAPE. THE BINARY TAPE IS ORIGINATED AT :100. STP OCCUPIES LESS THAN :500 LOCATIONS PLUS APPROXIMATELY :A LOCATIONS PER SOURCE LINE.
- 880008 CF-16 TELETYPE UTILITY PACKAGE - TUP
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
THE TELETYPE UTILITY PACKAGE CONSISTS OF 15 OBJECT ROUTINES. THESE ROUTINES PERFORM THE MOST COMMON TELETYPE I/O FUNCTIONS.
COMMENTS:
THE 15 ROUTINES ARE SUPPLIED ON A SINGLE OBJECT TAPE, WITH THE ROUTINES SEPARATED BY BLANK LEADER. THE ORDER OF THE ROUTINES IS THE SAME AS THE LISTING.
- 880009 CF-16 HORST PATTERN MEMORY DIAGNOSTIC - PMPH
AUTHOR:XEROX, SYSTEM PRODUCTS
ABSTRACT:
PMPH IS THE HORST PATTERN MEMORY DIAGNOSTIC FOR THE CF16 COMPUTER. IT TESTS ALL CORE LOCATIONS (:26 - :F9F) FOR HORST PATTERN NOISE SUSCEPTIBILITY.
COMMENTS:
PMPH IS LOADED AT :000 BY BLD AND TESTS CORE LOCATIONS :26 - F9F. THE LAST ADDRESS CHECKED MAY BE CHANGED AT EXECUTION TIME. ERRORS CAUSE THE COMPUTER TO HALT, DISPLAYING THE BAD BITS IN THE A REG., AND THE BAD CELL IN THE X REG.

- 880011 CF-16 CORE MEMORY DIAGNOSTIC - CMD
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
CMD TESTS ALL OF CORE MEMORY FOR PICKED UP OR DROPPED BITS AND VERIFIES MEMORY ADDRESSING. CONTROLS ARE AVAILABLE FOR SPECIFYING THE BLOCK OF MEMORY UPON WHICH TESTS ARE TO BE RUN AND WHICH TESTS ARE TO BE PERFORMED. DIAGNOSTIC PRINTOUTS ARE MADE ON TELETYPE TO IDENTIFY ERRORS.
COMMENTS:
CMD IS LOADED BY BLD AT LOCATION :800 AND RUNS FROM :800. CMD AUTOMATICALLY RELOCATES ITSELF TO TEST ALL OF CORE. PROGRAM RESIDENCE IS 175 LOCATIONS.
- 880012 CF-16 INSTRUCTION DIAGNOSTIC PROGRAM - IDP
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
IDP EXERCISES ALL PROCESSOR LOGIC TO VERIFY FUNCTIONAL PERFORMANCE. TESTS ARE PERFORMED SERIALLY. EACH TEST EXERCISES A SMALL SECTION OF THE PROCESSOR, AND RESULTS ARE IMMEDIATELY VERIFIED. IF THE VERIFICATION FAILS, IDP IS HALTED AND THE CONTENTS OF REGISTERS COMBINED WITH THE IDP LISTING PROVIDE THE BASIS FOR FAILURE ANALYSIS. THE PROGRAM MAY BE LOOPED ON THE FAILED TEST FOR A TROUBLESHOOTING AID.
COMMENTS:
IDP IS SUPPLIED ON ABSOLUTE BINARY TAPE WHICH LOADS AT :F0 AND RUNS FROM :100.
- 880013 CF-16 TELETYPE DIAGNOSTIC - TDP
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
TDP TESTS ALL TELETYPE I/O LOGIC AND CHECKS THE READER, PUNCH, AND PRINTER FOR ALL POSSIBLE CHARACTER CODES (0-FF). THE KEYBOARD INPUT IS CHECKED FOR ANY CHARACTERS THE USER MAY CHOOSE TO TEST. TDP VERIFIES ALL I/O FUNCTIONS.
COMMENTS:
TDP LOADS AT LOCATION :100 VIA THE BLD BINARY LOADER AND OCCUPIES :175 LOCATIONS.
- 880014 CF-16 HIGH SPEED PAPER TAPE DIAGNOSTIC - HSPTD
AUTHOR: XEROX, SYSTEM PRODUCTS
ABSTRACT:
HSPTD IS THE DIAGNOSTIC PROGRAM FOR THE HIGH SPEED PAPER TAPE SYSTEMS. THE PROGRAM WILL TEST THE HIGH SPEED READER ALONE, OR IN CONJUNCTION WITH THE HIGH SPEED PUNCH. THE PUNCH PORTION REQUIRES A HIGH SPEED READER TO VERIFY THE PUNCH OUTPUT.
COMMENTS:
- 880015 CF-16 M-1 MATH PACKAGE
AUTHOR: XEROX
ABSTRACT:
M-1 CONTAINS TWELVE (12) COMMON SINGLE AND DOUBLE PRECISION ARITHMETIC FUNCTIONS. THESE ROUTINES ARE EXTERNAL (DEF) ROUTINES, AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).
COMMENTS:
REFER TO XEROX PUBLICATION #901638 FOR A DESCRIPTION OF THE ROUTINES.
- 880016 CF-16 M-2 MATH PACKAGE
AUTHOR: XEROX
ABSTRACT:
M-2 CONTAINS TWELVE MATHEMATICAL FUNCTIONS IN OBJECT FORMAT. THESE ROUTINES ARE EXTERNAL ROUTINES (DEF) AND THEREFORE MUST BE DEFINED IN THE CALLING PROGRAM (BY A REF).
COMMENTS:
REFER TO XEROX PUBLICATION #901638 FOR A DESCRIPTION OF THE ROUTINES.
- 880018 CF-16 FORTRAN COMPILER
AUTHOR: XEROX
ABSTRACT:
FORTRAN IS COMPATIBLE WITH ANSI BASIC FORTRAN WITH THE VARIATIONS AS NOTED IN APPENDIX A OF THE BASIC FORTRAN REFERENCE MANUAL (#901735).
COMMENTS:
FORTRAN GENERATES OBJECT TAPES OF MAIN BODY PROGRAMS AND SUBROUTINES. THESE OBJECT TAPES ARE LOADED BY FOLL.
- 880019 CF-16 FOLL FORTRAN OBJECT LANGUAGE LOADER
AUTHOR: XEROX
ABSTRACT:
FOLL IS USED TO LOAD FORTRAN GENERATED OBJECT TAPES, SUBROUTINES, AND REQUIRED RUN TIME SYSTEM ROUTINES.
COMMENTS:
FOLL IS SUPPLIED AS A RELOCATABLE BINARY TAPE WITH A LOAD POINT OF :DE0.

JANUARY 1975

This Publication Revision Sheet summarizes the changes to user programming manuals since the last quarterly update. These changes, and the changes to diagnostic program manuals, are identified in the text of the Publications Catalog by revision bars.

New User Programming Manuals

<u>Publication Number</u>	<u>Title</u>	<u>Description</u>
90 31 21A	Xerox 1200 CPS EPCP General Reference Manual	Describes external characteristics of the extended printer control program version of the Xerox 1200 computer printing system.
90 31 23A	Xerox 1200 CPS EPCP Operator's Reference Card	Describes key operating features of the extended printer control program of the Xerox 1200 computer printing system.
90 31 24A	Xerox 1200 CPS EPCP System Programmer's Reference Card	Describes the key system programmer's features of the extended printer control program of the Xerox 1200 computer printing system.
90 31 13A	Xerox CP-V System Programming Reference Manual (Xerox 560 and Sigma 6/7/9)	Describes the external characteristics of the system programming features.
90 31 31A	Xerox CP-V Pocket Guide	Describes the key programming features of time-sharing processors.

Revised User Programming Manuals

<u>Publication Number</u>	<u>Title</u>	<u>Description</u>
90 19 83C-3	Xerox 1200 CPS General Reference Manual	This revision package documents the B01 version of the PCP.
90 19 81D	Xerox 1200 CPS System Programmer's Reference Card	This edition documents the B01 version of the PCP.
90 15 55G	Xerox RBM OPS Reference Manual (Xerox 530 and Sigma 2/3)	This edition documents the G00 version of the software.
90 11 53E-1	Xerox RBM System Technical Manual (Xerox 530 and Sigma 2/3)	This revision package documents the F01 version of the software.
90 30 85C	Xerox CP-R RT, BP Reference Manual (Xerox 550 and Sigma 9)	This edition documents the C00 version of CP-R.
90 30 86C	Xerox CP-R OPS Reference Manual (Xerox 550 and Sigma 9)	This edition documents the C00 version of CP-R.
90 30 87B	Xerox CP-R RT User's Guide (Xerox 550 and Sigma 9)	This edition documents the C00 version of CP-R.

Revised User Programming Manuals (cont.)

<u>Publication Number</u>	<u>Title</u>	<u>Description</u>
90 31 10B	Xerox CP-R Availability Features Reference Manual (Xerox 550 and Sigma 9)	This edition documents the C00 version of CP-R.
90 18 03C-1	Xerox BTM/BPM/CP-V Overlay Loader Technical Manual (Xerox 560 and Sigma 5-9)	This edition documents the B00 of CP-V and the H01 version of BPM/BTM.
90 17 64F	Xerox CP-V BP Reference Manual (Xerox 560 and Sigma 6/7/9)	This edition documents the C00 version of CP-R.
90 09 07F-1	Xerox CP-V TS Reference Manual (Xerox 560 and Sigma 6/7/9)	This revision package documents the C00 version of CP-V.
90 16 74G	Xerox CP-V SM Reference Manual (Xerox 560 and Sigma 6/7/9)	This edition documents the C00 version of CP-V.
90 16 75G	Xerox CP-V OPS Reference Manual (Xerox 560 and Sigma 6/7/9)	This edition documents the C00 version of CP-V.
90 18 83D	Xerox CP-V TS Reference Card (Xerox 560 and Sigma 6/7/9)	This edition documents the C00 version of CP-V.
90 19 95C	Xerox CP-V Data Base Technical Manual (Xerox 560 and Sigma 6/7/9)	This edition documents the C00 version of CP-V.
90 18 51B	Xerox TEXT OPS Reference Manual (Xerox 560 and Sigma 6/7/9)	This edition documents the A02 version of TEXT.
90 16 97B	Xerox CIRC-DC Reference Manual (Sigma 5-9)	This edition merely incorporates the 90 16 97A-1 revision package into the manual.

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INTRODUCTION

The Publications Section of the PAL Manual contains information for two types of Xerox Computer publications: diagnostic program manuals and user programming manuals. (Marketing literature is contained in the Sales Aid Catalog, 63 24 02A). Only one line of information appears for diagnostic program manuals. This line contains

Publication Number	Revision Date	Price	Title
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Additional information is supplied for user programming manuals to define the contents of each manual and the intended audience.

DIAGNOSTIC PROGRAM MANUALS

Diagnostic program manuals describe the directives and operating procedures for programs that have been written to test and exercise central processor or peripheral units. All diagnostic program manuals for hardware are included.

USER PROGRAMMING MANUALS

User programming manuals are classified into two general categories: hardware and software. Hardware programming manuals define the programming characteristics of central processors and input/output devices. Software programming manuals define the programming characteristics of operating systems, language processors, and application programs.

TYPES OF USER PROGRAMMING MANUALS

For software products, three types of user programming manuals are produced: reference manuals, user's guides, and technical manuals. For hardware products, only one type of user programming manual (reference manual) is produced.

The Xerox Computer programming reference manual is the overall source of information for a hardware or software product. It defines the external programming and operating characteristics of a product and is designed primarily for reference purposes. It is usually organized by command set (i.e., job control commands, system procedures, etc.), by command type (i.e., control statements, I/O statements, etc.), or software feature. Although examples are often included, they are normally used to illustrate command structure and not the relationship between commands.

The Xerox Computer programming user's guide is a tutorial manual and usually contains only a part of the information given in the corresponding reference manual. It shows how to use the product and is commonly organized by function (i.e., compiling, debugging, executing). Numerous examples are employed in user's guides to illustrate typical usage.

The Xerox Computer programming technical manual defines the internal structure of a software product. It is designed for use with program listings and normally contains an overview of the product, table structure, module descriptions, and flowcharts. The primary purpose of the technical manual is to provide maintenance programmers with sufficient information about the structure of the product to allow them to modify it.

PUBLICATIONS - GENERAL INFORMATION

Some software products require more than one manual of each type. For example, an operating system may require reference manuals for each of the following kinds of information:

<u>Information</u>	<u>Description</u>
Batch Processing	Includes information to allow programmers to write batch programs and to submit them to the batch job stream through a central site I/O device.
Remote Processing	Includes information to allow programmers to submit jobs through a remote batch processing terminal.
Time-Sharing	Includes information to allow programmers to use on-line time-sharing terminals. This includes the terminal executive language and some of the terminal subsystems.
System Management	Includes information to allow system programmers to tailor the system to user requirements via system generation options, to monitor the system through a performance monitor, and to adjust the system to changing requirements by varying operational parameters.
Operations	Includes information to allow operations management to prepare detailed, step-by-step procedures for computer operators.
Real-Time	Includes information to allow real-time programmers to write programs that will operate in real-time mode and to submit these programs for execution at the central site.

A language processor normally requires material to describe the language, and additional material to describe the operating system interface. The operating system interface description contains compile and execute options and other operational information. Sometimes the interface material is extensive enough to warrant two separate manuals: a language manual and an operations manual.

The technical information for a product may also require several volumes. For example, certain parts of an operating system, such as the SYSGEN module or Loader, are designed to operate within more than one operating system. These modules are sometimes described in separate volumes.

IDENTIFICATION OF USER PROGRAMMING MANUALS

Each line of Xerox Computer software manual title has a specific function, as follows:

Line 1	Product name
Line 2	Applicable computers
Line 3	Manual content
Line 4	Manual type

Product name is the formal name of the product.

Xerox Universal Time-Sharing System (UTS)

Applicable computers are the computers on which the software product operates.

Xerox Universal Time-Sharing System (UTS)
Sigma 6/7/9 Computers

Manual content identifies the information contained in the manual.

Xerox Universal Time-Sharing System (UTS)
Sigma 6/7/9 Computers

Batch Processing

Typical content designations for reference manuals and user's guides are as follows:

Batch Processing
Remote Processing
Time-Sharing
System Management
Operations
Real-Time
Utilities
Language

Manual type identifies one of the three types of Xerox Computer manuals; reference manual, user's guide, technical manual.

Xerox Universal Time-Sharing System (UTS)
Sigma 6/7/9 Computers

Batch Processing
Reference Manual

All central processor hardware programming manuals are identified by a two-line title consisting of lines 1 and 4.

Xerox Sigma 9 Computer

Reference Manual

All peripheral I/O device programming manuals are identified by a three-line title consisting of lines 1, 2, and 4, where line 2 identifies model numbers instead of applicable computers.

Xerox Buffered Line Printer
Model 7441

Reference Manual

PUBLICATIONS - GENERAL INFORMATION

In the manual descriptions in this section, these multiline titles are expressed in the form

product name/manual content, manual type (applicable computers).

Manual content is abbreviated as follows:

BP	Batch Processing
LN	Language
OPS	Operations
RP	Remote Processing
RT	Real-Time
SM	System Management
TS	Time-Sharing
UT	Utilities

PUBLICATIONS SUBSCRIPTION SERVICE

The publications subscription service provides a customer-oriented service for registration and automatic distribution of programming publications. Subscriptions are accepted for a one or two year period. Subscribers have two options:

1. They have the option of requesting the latest edition and all revision packages of a given publication to be sent immediately. In this case, the subscription starts upon receipt of the subscription request.
2. They have the option of requesting that the subscription not be made effective until the next edition of the publication is printed. In this case, the subscription starts with the printing of the next edition of the publication. Until that time, the subscriber receives all revision packages.

A subscription terminates prior to the issuance of a new edition of a given publication after the first or second anniversary of the subscription. The subscriber is notified in advance that his subscription to that publication has expired so that he can respond early enough to avoid an interruption of service. The expiration of a subscription for one publication does not affect the subscription to any other publication that may have been listed on the same request.

Subscribers are not allowed to apply educational discounts against subscription prices. However, to prevent bookstores from being faced with the prospect of absorbing the loss for unsold publications, full credit is given for all publications returned within 60 days of shipping.

PAYMENT

The subscription request must be accompanied by payment in full for the total request (i.e., deferred subscriptions that do not go into effect until the printing of the next edition of the associated publication must be included in the payment.) Payment may be in the form of a billable purchase order or a check made payable to the Xerox Corporation.

PRICING

Subscription prices are based on the base price of the publication and take into account the frequency of change of the publication. Since the subscription price is a factor of the base price, it is necessary to increase this factor for those publications with a higher frequency of change. Thus, central processor and peripheral publications have the smallest factor, processor and application publications have the next smallest factor, and operating systems have the largest factor.

Subscription prices are reviewed and adjusted annually. The new subscription prices appear in the January reprint of the PAL Manual.

A more detailed discussion of the subscription service is included in the General Information Section of the PAL Manual along with a sample subscription form.

REVISIONS TO USER PROGRAMMING MANUALS

A revision to a user programming manual is made either by a revision package or by a revision and reprint of the entire manual. The type of revision that is made depends primarily on the size of the revision. A revision package is assigned a number made up of the number of the publication being revised the current revision letter for that edition, the number of the revision package, and the current date; e.g., 90 16 54B-2 (6/71). Revision packages are incorporated into the manual during the next reprint of the manual (normally every six months to a year). All manuals listed in the Sigma and 9-Series publications sections that have outstanding revision packages have them listed below the basic publication number. For example,

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>Title and Contents</u>
90 16 54B	4/71	4.00	Xerox FLAG/Reference Manual (Sigma 5-8)
90 16 54B-1	4/71	C	Software Version: B01
90 16 54B-2	6/71	C	Describes external programming characteristics of FLAG, and is intended for use by FORTRAN programmers. Contents: FLAG compiler, data, expressions, assignment, statement, control statement, input/output, declaration statements, program and subprograms, operations, FLAG statements.

A revision and reprint is made when the changes are too numerous to make with a revision package. In this case, the entire manual is reprinted and given a new revision letter. A revision notice on the back of the title page briefly describes the purpose of the revision.

USER-CONTRIBUTED MANUALS

Xerox Computer users may submit manuals they have written to the User's Group for publication. These manuals should be submitted to EXCHANGE (Attention: Sheri Penney) and should be in the form of typed, reproducible drafts. All drawings should be in ink (those drawn in pencil do not reproduce adequately).

PUBLICATIONS - GENERAL INFORMATION

User-contributed manuals are not supported by Xerox. Those submitted for publication will be assigned a publication number and published as is. All user-contributed manuals will be listed in this section of the PAL manual and should be ordered in the same way other manuals are ordered.

USER PROGRAMMING MANUALS
CENTRAL PROCESSING UNITS

Publication Number	Revision Date	Price	1 Year Subscr.	2 Year Subscr.	Title and Contents
90 19 60B	9/73	3.75	4.50	7.50	Xerox 530 Computer Reference Manual
90 19 60B-1	10/73	C	C	C	Describes programming and operating characteristics of Xerox 530 computers and is intended for use by machine and assembly language programmers. Contents: General characteristics, real-time and multiusage features, standard and optional features, information nomenclature and formats, system organization, instruction repertoire, input/output systems, operator controls, reference tables, instruction timing, read/write instructions.
90 30 76A	1/74	7.25	8.70	14.50	Xerox 560 Computer/Reference Manual
90 30 76A-1	1/74	C	C	C	Describes programming and operating characteristics of Xerox 560 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operational control, system configuration control, reference tables, glossary of symbolic terms, fault status registers.
90 30 77A	2/74	6.50	7.80	13.00	Xerox 550 Computer/Reference Manual
					Describes programming and operating characteristics of Xerox 550 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operational control, system configuration control, reference tables, glossary of symbolic terms, fault status registers.
90 09 64F	12/69	2.00	2.40	4.00	Xerox Sigma 2 Computer/Reference Manual
					Describes programming and operating characteristics of Sigma 2 computers and is intended for use by machine and assembly language programmers. Contents: General characteristics, real-time and multiusage features, system organization, instruction

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CENTRAL PROCESSING UNITS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
					repertoire, input/output operations, operator control, reference tables, instruction execution cycle, memory addressing, watchdog timer.
90 15 96D	1972	C	C	C	Xerox Sigma 2/3 Computer/Reference Card Specifies key reference information for Sigma 2/3 computers and is intended for use by programmers. Contents: Mnemonic listing of instructions, code listing of instructions, instruction format, condition codes, interrupt locations, Sigma 2/3 interrupt system control, hexadecimal integer conversion table, device orders, I/O status information, I/O control doublewords and I/O tables, program status doubleword, read direct internal control functions, write direct internal control functions.
90 15 92D	5/72	2.75	3.30	5.50	Xerox Sigma 3 Computer/Reference Manual Describes programming and operating characteristics of Sigma 3 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction timing, watchdog timer, model 8150 Sigma 5/7 memory adaptor.
90 09 59F	7/72	4.50	5.40	9.00	Xerox Sigma 5 Computer/Reference Manual Describes programming and operating characteristics of Sigma 5 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, reference diagrams, instruction list, execution times.
90 16 24D	1971	C	C	C	Xerox Sigma 5 Computer/Reference Card Specifies key reference information for Sigma 5 computer and is intended for use by programmers. Contents: Instruction list and

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					codes, loading operation sequence, program status doubleword, trap system summary, IOP command doublewords, input/ output operations, status bits for I/O instructions, interrupt locations.
90 17 13B	6/71	5.25	6.30	10.50	Xerox Sigma 6 Computer/Reference Manual Describes programming and operating characteristics of Sigma 6 computer and is intended for use by machine and assembly language programmers. Contents: System design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, reference diagrams, instruction list, instruction timing.
90 09 50J	11/73	5.25	6.30	10.50	Xerox Sigma 7 Computer/Reference Manual Describes programming and operating characteristics of Sigma 7 computer and is intended for use by machine and assembly language programmers. Contents: System characteristics, system organization, instruction repertoire, input/output operations, operator control, reference tables, reference diagrams, instruction list, instruction timing.
90 15 29E	3/73	C	C	C	Xerox Sigma 6/7 Computer/Reference Card Specifies key reference information for Sigma 6/7 computer and is intended for use by programmers. Contents: Basic instructions, loading operation, input/output instructions, status bits for I/O instructions, command doubleword format, peripheral device order codes, hexadecimal-decimal integer conversion table Sigma 6/7 basic operation codes, instruction format, program status doubleword, summary of Sigma 6/7 trap system, Sigma 6/7 interrupt locations, dedicated core memory locations.
90 17 49A	1/71	5.75	6.90	11.50	Xerox Sigma 8 Computer/Reference Manual
90 17 49A-1	3/71	C	C	C	

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90 17 49A-2	9/73	C	C	C	Describes programming and operating characteristics of Sigma 8 computer and is intended for use by machine and assembly language programmers. Contents: General characteristics, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction list, instruction timing, system reliability and maintainability, glossary of symbolic terms.
90 17 33C	6/72	7.00	8.40	14.00	Xerox Sigma 9 Computer/Reference Manual
90 17 33C-1	4/74	C	C	C	
					Describes programming and operating characteristics of Sigma 9 computer and is intended for use by machine and assembly language programmers. Contents: system design features, system organization, instruction repertoire, input/output operations, operator controls, reference tables, instruction list, instruction timing, system reliability and maintainability, glossary of symbolic terms.
90 18 54A	4/73	C	C	C	Xerox Sigma 8/9 Computer/Reference Card
					Specifies key reference information for Sigma 8/9 computers and is intended for use by programmers. Contents: instructions, instruction list, computer operating and addressing mode, program status doublewords, loading operation, command doubleword formats, instruction word formats, shift instructions, input/output instruction formats, condition code, status bits for I/O instructions, read/write directs, memory (homespace) layout, interrupt locations, map location summary.
90 09 57A	3/66	C	C	C	Xerox Sigma Glossary of Computer Terminology
					Provides brief definitions of special terms associated with Sigma Computers.

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90 15 30C	1971	C	C	C	Xerox Sigma Symbols and Codes/Reference Card Specifies Standard EBCDIC and ANSCII codes. Contents: 8-bit EBCDIC codes and 7-bit ANSCII codes.
*****CARD EQUIPMENT*****					
90 09 70E	11/70	1.00	1.20	2.00	Xerox Card Reader/Reference Manual (Models 7120/7122/7140) Describes external programming and operating characteristics of card reader and is intended for use by assembly and machine language programmers. Contents: functional description, program interface, operations, EBCDIC card codes, programming examples.
90 09 71C	8/68	.75	.90	1.50	Xerox Card Punch/Reference Manual (Model 7160) Describes external programming and operating characteristics of card punch and is intended for use by assembly and machine language programmers. Contents: functional description, program interface, operations, EBCDIC card codes, Sigma 7 card punch program.
90 15 67A	7/69	1.00	1.20	2.00	Xerox 100 Card/Minute Card Punch/ Reference Manual (Model 7165) Describes external programming and operating characteristics of card punch and is intended for use by assembly and machine language programmers. Contents: functional description, program interface, operations, programming examples, standard codes.
*****MAGNETIC TAPE UNITS*****					
90 09 77C	11/70	1.00	1.20	2.00	Xerox 9-Track Magnetic Tape System/ Reference Manual (Models 7320/7322/7323) Describes external programming and operating characteristics of 9-track magnetic tape system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface,

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					operations, Sigma 5/6/7/9 programming examples, Sigma 2/3 programming example.
90 09 78A	9/67	1.25	1.50	2.50	Xerox 7-Track Magnetic Tape System/ Reference Manual (Models 7361/7362/7371/7373) Describes external programming and operating characteristics of 7-track magnetic tape system and is intended for use by assembly or machine language programmers. Contents: Operating characteristics, physical dimensions, environmental conditions, functional description, program interface, operator controls, BCD-EBCDIC conversion chart, example of Sigma 5/7 and Sigma 2 programming.
90 19 13A	1/73	1.75	2.10	3.50	Xerox High Performance Magnetic Tape System (Models 7330/7332/7333/ 1038/7322) Describes external programming and operating characteristics of high-performance magnetic tape system and is intended for use by assembly or machine language programmers. Contents: General description, functional description, program interface, operations.
90 30 91A	6/74	1.75	2.10	3.50	Xerox Magnetic Tape System/Reference Manual (Models 3322/3325/3332/3335/1045/1046) Describes external programming characteristics of magnetic tape unit and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations.
*****DIRECT ACCESS UNITS*****					
90 09 79D	2/72	1.25	1.50	2.50	Xerox RAD Storage System/Reference Manual (Models 7201/7202/7203/7204) Describe external programming and operating characteristics of RAD storage system and is

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					intended for use by assembly and machine language programmers. Contents: Characteristics, functional description, program interface, examples of Sigma 5-9 and Sigma 2/3 programming.
90 09 80A	6/68	.75	.90	1.50	Xerox High Speed RAD Storage System/ Reference Manual (Models 7211/7212)
					Describes external programming and operating characteristics of high speed RAD storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, programming example.
90 15 57D	5/73	1.25	1.50	2.50	Xerox Extended Performance RAD Storage System/Reference Manual (Models 7231/7232)
					Describes external programming and operating characteristics of extended performance RAD storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, programming examples for Sigma 5-9 and Sigma 2/3.
90 16 71B	8/71	1.75	2.10	3.50	Xerox Removable Disk Storage System/ Reference Manual (Models 7240/7242/7246)
					Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations.
90 18 75B	8/73	2.00	2.40	4.00	Xerox Removable Disk Storage Systems/ Reference Manual (Models 7260/7261)
					Describes external programming and operating characteristics of removable disk storage systems and is intended for use by assembly and machine language programmers. Contents: General description, functional description,

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					program interface, programming considerations, operations.
90 30 24A	6/73	1.50	1.80	3.00	Xerox Cartridge Disk System/Reference Manual (Models 7250/7251/7252) Describes external programming and operating characteristics of cartridge disk system and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations.
90 30 57A	11/73	1.50	1.80	3.00	Xerox Removable Disk Reference Manual (Models 7270/7271) Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations.
90 30 79A	11/73	1.50	1.80	3.00	Xerox Removable Disk Reference Manual (Models 7275/7276) Describes external programming and operating characteristics of removable disk storage system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations.
*****DISPLAYS*****					
90 09 82A	5/69	.75	.90	1.50	Xerox Multipurpose Keyboard/Reference Manual (Models 7550/7555) (Obsolete) Describes external programming and operating characteristics of multipurpose keyboard display and is intended for use by assembly and machine language programmers. Contents: Functional description program interface, operations.

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90 15 66B	11/69	.75	.90	1.50	Xerox Graphic Display Unit/Reference Manual (Model 7580) (Obsolete) Describes external programming and operating characteristics of graphic display unit and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming example.
*****PLOTTERS*****					
90 11 94B	11/70	.75	.90	1.50	Xerox Graph Plotters/Reference Manual (Models 7530/7531) Describes external programming and operating characteristics of graph plotters and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming examples, sample plots.
*****PAPER TAPE UNITS*****					
90 09 83C	10/72	.75	.90	1.50	Xerox Paper Tape Input/Output System/Reference Manual (Model 7060) Describes external programming and operating characteristics of paper tape input/output system and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, program examples.
*****COMMUNICATIONS EQUIPMENT*****					
90 15 68B	12/69	1.00	1.30	2.00	Xerox Message-Oriented Communications Equipment/Reference Manual (Models 7601/7604) Describes external programming and operating characteristics of message-oriented communications equipment and is intended for

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					use by assembly and machine language programmers. Contents: Functional description, program interface, standard codes.
90 09 81C	4/73	1.25	1.50	2.50	Xerox Character-Oriented Communications Equipment/Reference Manual (Models 7611-7616/7620-7623) Describes external programming and operating characteristics of character-oriented communications equipment and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, programming examples, standard codes.
90 30 14A	6/73	1.00	1.20	2.00	Xerox Procedure-Oriented Communications Equipment/Reference Manual (Model 7605) Describes external programming and operating characteristics of procedure-oriented communications equipment and is intended for use by assembly and machine language programmers. Contents: General description, hardware, functional description, program interface, standard symbols, codes, and correspondences, IBM EBCDIC and six-bit transcode character sets and conversions.
*****PERIPHERAL SWITCH EQUIPMENT*****					
90 16 00A	4/69	.75	.90	1.50	Xerox Peripheral Switching Equipment/Reference Manual (Models 7710/7720-7722) Describes external programming and operating characteristics of peripheral switching equipment and is intended for use by assembly and machine language programmers. contents: General and functional description program interface, sample programs.
*****LINE PRINTERS*****					
90 16 01B	4/73	1.00	1.20	2.00	Xerox Buffered Line Printer/Reference Manual (Model 7450)

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80 10 14D	1/70	.75	.90	1.50	Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, programming examples. Xerox Buffered Line Printer/Reference Manual (Models 7440/7445)
80 17 23B	2/73	1.50	1.80	3.00	Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations, device state sequences, Sigma 5/7 programming example. Xerox Buffered Line Printer/Reference Manual (Model 7441/7442)
80 17 43B	5/72	2.00	2.40	4.00	Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations. Xerox Line Printer/Reference Manual (Model 7446)
80 30 22A	4/73	1.25	1.50	2.50	Describes external programming and operating characteristics of the 7446 line printer and is intended for use by assembly and machine language programmers. Contents: Functional description, program interface, operations. Xerox Buffered Line Printer/Reference Manual (Model 3451)
80 30 94A	6/74	2.00	2.40	4.00	Describes external programming and operating characteristics of buffered line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations, device state sequences. Xerox Line Printer/Reference Manual (Models 3461/3462)

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					Describes external programming and operating characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations.
90 30 95A	6/74	1.75	2.10	3.50	Xerox Line Printer/Reference Manual (Models 3463/3464/3465/3466)
					Describes external programming and operating characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations.
90 30 97A	7/74	1.75	2.10	3.50	Xerox Line Printer/Reference Manual (Models 7463/7464)
					Describes external programming characteristics of line printer and is intended for use by assembly language programmers. Contents: General description, functional description, program interface, operations.

*****1200 COMPUTER PRINTING SYSTEM*****

90 31 21A	10/74	7.25	8.70	14.50	Xerox 1200 Computer Printing System/Extended Printer Control Program General Reference Manual
					Software Version: A00
					Describes external programming characteristics of 1200 Computer Printing System and is intended for use by applications programmers. Contents: Introduction, hardware input specifications, job descriptor library, special features, system operation and preventive maintenance, error recovery, maintenance features, physical planning data, character sets, status codes, forms overlay, preprinted forms, prestored job descriptor entries, special job request numbers, job descriptor entry format, EPCP.

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90 31 22A	10/74	3.75	4.50	7.50	Xerox 1200 Computer Printing System/Extended Printer Control Program Operator's Guide Software Version: A00 Describes operating characteristics of 1200 and is intended for use by operators. Contents: Introduction, preliminary concepts, computer printing system hardware, system control panel, tape transport control panel, operator duties, operating procedures, what to do, ordering form overlays, status codes, software update tape status codes.
90 31 23A	10/74	C	C	C	Xerox 1200 Computer Printing System/Extended Printer Control Program Operator's Reference Card Software Version: A00 Specifies key reference information for 1200 Computer Printing System and is intended for use by operators. Contents: Status codes, daily maintenance checklist.
90 31 24A	10/74	C	C	C	Xerox 1200 Computer Printing System/Extended Printer Control Program Systems Programmer's Reference Card Software Version: A00 Specifies key reference information for 1200 Computer Printing System and is intended for use by system programmers. Contents: Character sets, job descriptor library characteristics.
90 19 83C	11/73	4.00	4.80	8.00	Xerox 1200 Computer Printing System/ General Reference Manual Software Version: B01 Describes external programming characteristics of 1200 computer printing system and is intended for use by application programmers. Contents: General description, input specifications, system control panel,
90 19 83C-1	1/74	C	C	C	
90 19 83C-2	5/74	C	C	C	
90 19 83C-3	10/74	C	C	C	

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					tape port, operations, job descriptor library, error recovery, operator preventive maintenance, maintenance features, physical planning.
90 19 82B	8/73	2.75	3.30	5.50	Xerox 1200 Computer Printing System/Operator's Guide
90 19 82B-1	5/74	C	C	C	
90 19 82B-2	8/74	C	C	C	
					Software Version: B01
					Describes operating characteristics and is intended for use by operators. Contents: introduction, preliminary concepts, computer printing system hardware, system control panel, tape transport control panel, operator duties, operating procedures, what to do, ordering overlay guides, status codes.
90 30 39D	9/74	C	C	C	Xerox 1200 Computer Printing System/Operator's Guide
					Software Version: B01
					Specifies key reference information for 1200 Computer printing system and is intended for use by operators. Contents: status codes, alternate recovery procedures, daily maintenance checklist.
90 19 81D	10/74	C	C	C	Xerox 1200 Computer Printing System/System Programmers Reference Card
					Software Version: B01
					Specifies key reference information for 1200 Computer Printing System and is intended for use by system programmers. Contents: Character sets, job descriptor library characteristics, job descriptor entries, special job request number 97, library maintenance procedures.
*****REMOTE BATCH TERMINALS*****					
90 16 26B	1/70	2.75	3.30	5.50	Xerox Remote Batch Terminal/Operator's Manual (Model 7670)

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					Describes operating characteristics of remote batch terminal and is intended for use by RBT operators. Contents: Operator's responsibilities subsystem operation, performance testing, trouble analysis, operator reference sheet.
90 16 02A	6/69	2.25	2.70	4.50	Xerox Remote Batch Terminal/Reference Manual (Model 7670)
					Describes external programming characteristics of RBT and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operation, timing analysis, reference tables, RBT functions and responses, peripheral device operating speeds.
*****AUTOMATIC DIALING EQUIPMENT*****					
90 16 11A	4/69	.50	.60	1.00	Xerox Automatic Dialing Equipment/Reference Manual (Models 7618/7619)
					Describes external programming and operating characteristics of automatic dialing equipment and is intended for use by assembly and machine language programmers. Contents: general description, functional description program interface.
*****KEYBOARD PRINTERS*****					
90 16 72A	12/69	1.25	1.50	2.50	Xerox Keyboard/Printers (KSR,ASR) /Reference Manual (Models 7012/7014/7020/7021/8091/8092)
					Describes external programming and operating characteristics of keyboard/printers and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations, programming examples for Sigma 5/7 and 2/3.

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90 17 01A	12/70	.75	.90	1.50	Xerox Communications Keyboard/Printer/Reference Manual (Models 7015-7017/7025-7027) Describes external programming and operating characteristics of communications keyboard/printers and is intended for use by assembly and machine language programmers Contents: General description, functional description, operations.
90 30 23A	5/73	1.50	1.80	3.00	Xerox Keyboard/Printer (KSR,ASR) /Reference Manual (Models 4191-4194) Describes external programming and operating characteristics of communications keyboard/printers and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operation.

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*****STAND-ALONE*****					
90 10 47B	7/68	2.00	3.20	4.80	Xerox Stand-Alone Systems/OPS Reference Manual (Sigma 2)
					Software Version: D00
					Describes external operating and programming characteristics and is intended for use by both programmers and operators. Contents: Program support package, stand-alone system processors, system loading, operator communications, control commands, Symbol assembly, Relocatable Loader, Debug, Concordance, Utility Input/Output Control System, system preparation, standard object language format, standard absolute language format, control command examples, Symbol flags, error messages (Loader, Debug, Concordance).
*****BCM*****					
90 10 64C	8/69	3.00	4.80	7.20	Xerox Basic Control Monitor (BCM) /BP,RT
90 10 64C-1	4/73	C	C	C	Reference Manual (Xerox 530 and Sigma 2/3)
					Software Version: E00
					Describes external programming characteristics of BCM and is intended for use by batch and real-time programmers. Contents: System features, hardware configuration requirements, BCM subsystems, basic definitions, BCM characteristics, core memory allocation, control commands, operator communication, Linking Loader, BCM System Loader, Monitor service routines, real-time programming, I/O operations, Utility Subsystem, Debug program, system generation, Sigma 2/3 standard object language, standard BCM abort codes.
90 15 06B	8/69	1.25	2.00	3.00	Xerox Basic Control Monitor (BCM) /OPS
90 15 06B-1	4/73	C	C	C	Reference Manual (Sigma 2/3)
					Software Version: E00
					Describes operating characteristics of BCM and is intended for use by operations

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					management in preparing detailed operating procedures. Contents: Operator/system interface, control commands, loading BCM system, control card error recovery, I/O error messages, BCM subsystems.
90 15 26C	9/73	1.00	1.60	2.40	Xerox Basic Control Monitor (BCM) /System Technical Manual (Xerox 530 and Sigma 2/3)
					Software Version: E00
					Describes internal structure of BCM and is intended for use by maintenance programmers. Contents: Priority interrupts, Monitor service routines, BCM initialization and selection, background termination procedures, input/output procedures.
*****530 and 2/3 RBM*****					
90 10 37H	6/73	6.00	9.60	14.40	Xerox Real-Time Batch Monitor (RBM) /RT, BP
90 10 37H-1	3/74	C	C	C	Reference Manual (Xerox 530 and Sigma 2/3)
					Software Version: F01
					Describes external programming characteristics of RBM and is intended for use by real-time and batch programmers. Contents: RBM characteristics, RBM subsystems, RBM terms and processes, control commands, operator communication, Monitor service routines, I/O operations, real-time programming, overlay loader, RAD Editor, utility programs, preparing the program deck, system start-up, debug, additional RBM processors, operational label usage, system zero table and contents, error messages, warning messages, and abort codes.
90 17 85A	1/72	4.75	7.60	11.40	Xerox Real-Time Batch Monitor (RBM) /User's
90 17 85A-1	6/73	C	C	C	Guide (Xerox 530 and Sigma 2/3)
					Software Version: F00
					Describes how to use RBM and is intended for real-time and batch programmers. Contents: RBM operating system, how to compile and load FORTRAN jobs, how to assemble and load Extended Symbol jobs, how to create and

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					<p>manipulate files, how to build an overlay program, how to use Monitor service routines how to use Utility, how to interface ANS FORTRAN IV and Extended Symbol subroutines how to use standard procedure (S2) files, how to reduce assembly language hardware requirements, how to use hardware interrupts, how to create a task control block, how to connect tasks to interrupts, how to attain reentrancy in assembly language subroutines, how to write an assembly language interrupt handler, how to write and execute a real-time program, how to create a FORTRAN real-time system, how to debug assembly language programs, how to assign and use device operational labels, how to patch RBM, how to save and restore an RBM System.</p>
90 15 55G	11/74	1.75	2.80	4.20	<p>Xerox Real-Time Batch Monitor (RBM) /OPS Reference Manual (Xerox 530 and Sigma 2/3)</p> <p>Software Version: G00</p> <p>Describes operating characteristics of RBM and is intended for use by operations management in preparing detailed operating procedures. Contents: Booting RBM from system RAD, operator/system interface, control commands, control command error recovery, control command diagnostics, RBM messages, RBM subsystem operations, debug, sample job stacks, Sigma 2/3 operational label usage, abnormal conditions procedures, data switch settings.</p>
90 30 54B	3/74	3.75	6.00	9.00	<p>Xerox Availability Features (Xerox 530 and Sigma 2/3)</p> <p>Software Version: F01 (RBM)</p> <p>Describes availability features of RBM and is intended for use by system programmers. Contents: Introduction, SYSERR analysis.</p>
90 30 36B	3/74	2.25	3.60	5.40	<p>Xerox Real-Time Batch Monitor (RBM) /SM Reference Manual (Xerox 530 and Sigma 2/3)</p> <p>Software Version: F01</p>

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					Describes the system management features of RBM and is intended for use by system programmers. Contents: Introduction, hardware configuration guidelines, software configuration guidelines, system generation, loading RBM system processors, system maintenance.
90 11 53E	10/73	7.50	12.00	12.00	Xerox Real-Time Batch Monitor (RBM) /System Technical Manual (Xerox 530 and Sigma 2/3)
90 11 53E-1	11/74	C	C	C	
					Software Version: F01
					Describes internal structure of RBM and is intended for use by maintenance programmers. Contents: Input/Output procedures, RAD file management, Overlay Loader, RAD Editor, RBM sizes, critical RBM times, power on and power off receivers.
90 30 78A	3/74	3.00	4.80	7.20	Xerox Satellite Processor/OPS Reference Manual (Xerox 530 and Sigma 3)
					Software Version: A00
					Describes external operating programming characteristics of the Satellite Processor and is intended for use by system managers, programmers, and operators. Contents: Introduction, general information, operator commands, general remote terminal procedures, remote terminal procedures to IBM OS/HASP sites, remote procedures with Xerox CP-V hosts, remote terminal procedures, tape spooling procedures, local operations, site generation procedures, connecting to remote site via telephone lines, multileaving, IBM OS/HASP remote operator commands, Xerox CP-V remote operator commands and messages, transmission line and peripheral device throughput rates.

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XEROX 530 AND SIGMA 2/3 PROCESSORS AND APPLICATIONS

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*****SYMBOL*****

90 10 51C	3/68	1.50	2.10	3.30	Xerox Symbol/LN,OPS Reference Manual (Xerox 530 and Sigma 2/3)
90 10 51C-1	1/73	C	C	C	

Software Version: D00

Describes external programming characteristics and operating system interface of Symbol and is intended for use by assembly language programmers. Contents: Programming features, error detection, Sigma mathematical library, assembly coding format and components. Symbolic instructions, addressing, location counters and program sections, Symbol directives, operations, assembly process flowchart, machine instructions, summary of Symbol directives, concordance program.

90 10 52E	9/71	3.00	4.20	6.60	Xerox Extended Symbol/LN,OPS Reference Manual (Xerox 530 and Sigma 2/3)
90 10 52E-1	12/73	C	C	C	
90 10 52E-2	3/73	C	C	C	

Software Version: F00

Describes external programming characteristics and operating system interface of Extended Symbol and is intended for use by assembly language programmers. Contents: Programming features, error detection. Extended Symbol language elements and syntax, machine instructions, addressing, location counters and prosections. Extended Symbol directives, procedures, operations, incompatibilities between Extended Symbol and Symbol.

*****FORTRAN*****

90 09 67D	8/70	2.25	3.15	4.95	Xerox Basic FORTRAN and Basic FORTRAN IV/ LN Reference Manual (Sigma 2/3)
90 09 67D-1	4/71	C	C	C	

Software Version: D00

Describes operating system interface for Basic FORTRAN and is intended for use by FORTRAN programmers. Contents: Compiler subprograms, program compilation and execution, input/output operations, absolute run-time module, Sigma FORTRAN character set.

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90 10 61A	4/68	1.25	1.75	2.75	Xerox Basic FORTRAN/OPS Reference Manual (Sigma 2/3) Software Version: D00 Describes operating system interface for Basic FORTRAN and is intended for use by FORTRAN programmers. Contents: Compiler subprograms, program compilation and execution, input/output operations, absolute run-time module, Sigma FORTRAN character set.
90 15 25B	5/72	1.25	1.75	2.75	Xerox Basic FORTRAN IV/OPS Reference Manual (Sigma 2/3) Software Version: D00 Describes operating system interface for Basic FORTRAN IV and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, Sigma FORTRAN character set.
90 10 36B	10/68	4.25	5.95	9.35	Xerox FORTRAN/Library Technical Manual (Sigma 2/3) Software Version: D00 Describes the internal structure and external characteristics of the Run-Time Library for Basic FORTRAN and Basic FORTRAN IV. Contents: Calling sequences and argument transfer, table of routines, error conditions and actions, accuracy, input/output, formatted input/output, binary input/output, program library descriptions, data formats, mathematical constants, order of routines in library.
90 18 06C	3/74	4.25	5.95	9.35	Xerox ANS FORTRAN IV/LN Reference Manual (Xerox 530 and Sigma 3) Software Version: C00 Describes external programming characteristics of ANS FORTRAN IV language and is intended for use by FORTRAN programmers. Contents: ANS FORTRAN IV

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					programs, data, expressions, assignment statement, control statements, input/output, declaration statements, programs and subprograms, in-line symbolic code, real-time features.
90 18 35C	8/74	5.00	7.00	11.00	Xerox ANS FORTRAN IV/Library Technical Manual (Xerox 530 and Sigma 3) Software Version: C00 Describes internal structure and external characteristics of the Run-Time Library for ANS FORTRAN IV and is intended for use by FORTRAN programmers. Contents: temporary storage allocation and argument transfer, mathematical routines, input/output routines, arithmetic routines.
90 18 07C	3/74	1.75	2.45	3.85	Xerox ANS FORTRAN IV/OPS Reference Manual (Xerox 530 and Sigma 3) Software Version: C00 Describes the external characteristics of ANS FORTRAN IV and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, input/output operations, FORTRAN Debug, real-time features, Sigma character set.
*****SCIENTIFIC SUBROUTINE*****					
90 16 17A	5/69	5.50	7.70	12.10	Xerox Scientific Subroutine Package/ Technical Manual (Sigma 2/3) Software Version A00 Describes the internal structure of mathematical and statistical routines of interest to scientific users. Contents: Basic subroutines, correlation and statistical subroutines, matrix subroutine, polynomial subroutines, mathematical function subroutines.

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*****SORT*****

90 17 87A	6/71	1.25	1.75	2.75	Xerox Sort/Reference Manual (Sigma 3)
90 17 87A-1	10/72	C	C	C	
90 17 87A-2	5/74	C	C	C	

Software Version: B00

Describes external programming characteristics and is intended for use by programmers. Contents: Features, file organization, program organization and sorting techniques, processing of user-written routines, control parameters, messages, control record layout, operating examples.

*****ANS COBOL*****

90 30 90A	7/74	6.50	9.10	14.30	Xerox ANS COBOL (for RBM/LN, OPS Reference Manual (Xerox 530)
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Software Version: A00

Describes external programming characteristics of 530 COBOL and is intended for use by business programmers. Contents: Introduction, COBOL language concepts, identification division, environment division, data division, procedure division, interprogram communication, compiler-directing statements, special features, sequential-relative-indexed files, operational considerations.

*****RPG*****

90 18 41B	12/73	8.25	11.45	18.50	Xerox Report Program Generator II (RPG II)/Reference Manual (Xerox 530) and (Sigma 3)
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Software Version: C00

Describes external programming characteristics of RPG II and is intended for

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use by programmers. Contents: Description of RPG II, RPG II programming, RPG II source language and specifications, use of tables in RPG II programming, advanced use of RPG II, sample RPG II programs, summary of RPG II specifications, summary of indicators, compiler messages, detailed RPG II object program logic, ISAM file considerations, installation considerations, program conversion hints, use of external subroutines, coding of sample RPG II programs.

90 30 05B	10/73	C	C	C	RPG II/Sort Aid
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Specifies columns in which RPG II and Sort information appears. Contents: File Description, input, calculation, output, extension, line counter, header card, sort control card.

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*****COMPUTER CENTER SUBSYSTEM*****					
90 19 28A	6/72	1.50	2.10	3.30	Xerox Computer Center Subsystem (CCS) terminal Operations Reference Manual (Sigma 6/7/9 Computers) Software Version: A00 Describes the external characteristics of CCS and is intended for use by computer center customers who query the computer center data base and by computer center personnel who update that data base. contents: Subsystem functions, updating the data base, querying the data base, installation defined parameter values.
*****STAND-ALONE*****					
90 10 53C	9/68	1.50	2.40	3.60	Xerox Stand-Alone Systems/DPS Reference Manual (Sigma 5/6/7) Software Version: D00 Describes external operating and programming characteristics and is intended for use by both programmers and operators. Contents: Stand-Alone Symbol, stand-alone loader with I/O handlers, stand-alone general debug subroutine.
*****BCM*****					
90 09 53D	4/71	2.75	4.40	6.60	Xerox Basic Control Monitor (BCM) /BP,RT, OPS Reference Manual (Sigma 5/6/7) Software Version: C01 Describes external operating and programming characteristics of BCM and is intended for use by both programmers and operators. Contents: System features, control commands, basic loader, operator communication, return functions, input/output operations, trap functions, debug functions, use of temporary storage by library routines, preparing program deck, real-time operations, system generation, Sigma standard object language, FORTRAN IV-H Calling/receiving sequences,

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					memory protection, I/O handlers, commands and calls.
*****RBM-1*****					
90 15 80A	1/69	2.75	4.40	6.60	Xerox Real-Time Batch Monitor (RBM-1) /RT,BP
90 15 80A-1	12/70	C	C	C	Reference Manual (Sigma 5/6/7)
					Software Version: E00 - Nonsupported product (replaced by REM)
					Describes external programming characteristics of RBM-1 and is intended for use by real-time and batch programmers. Contents: Control commands, basic loader, operator communication, return functions, input/output operations, trap functions, debug functions, temporary storage and library routines, real-time operations, system generation, Sigma standard object language, FORTRAN IV-H calling/receiving sequences, memory protection, I/O handlers, list of commands and calls.
*****RBM*****					
90 15 81E	4/73	6.25	10.00	15.00	Xerox Real-Time Batch Monitor (RBM) /RT,BP
					Reference Manual (Sigma 5-9)
					Software Version: C03
					Describes external programming characteristics of RBM and is intended for use by real-time and batch programmers. Contents: Operating system terms and processes, job organization, hardware and system configurations, control commands, operator communications, input/output operations, user program scheduling and operation, overlay loader, RAD Editor, preparing the program deck, system generation, Sigma standard object language, real-time performance data, RAD storage requirements, JCP loader, system patching, character-oriented communication routines.
90 16 47E	4/73	2.25	2.60	5.40	Xerox Real-Time Batch Monitor (RBM) /OPS
					Reference Manual (Sigma 5-9)

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					Software Version: C03 Describes operating characteristics of RBM and is intended for use by operations management in preparing detailed operating procedures. Contents: Real-time and background programs, software environment, operator/system interface, system control commands, running background jobs, running foreground jobs, RAD Editor operations, overlay loader operations.
90 16 53B	10/72	4.50	7.20	10.80	Xerox Real-Time Batch Monitor (RBM) /RT,BP
90 16 53B-1	4/73	C	C	C	User's Guide (Sigma 5-9)
					Software Version: C03 Describes how to use RBM and is intended for real-time and batch programmers. contents: RBM system, foreground programs, background programs, RBM Montior, memory allocation, job stream summary, how to compile and load FORTRAN jobs, how to assemble and load Macro-Symbol jobs, how to use RAD Editor, how to build overlaid program, how to interface FORTRAN and assembly language routines, how to connect tasks to interrupts, how to make FORTRAN subroutines reentrant, how to write FORTRAN interrupt handler, how to write reentrant subroutines in assembly language, how to write assembly language interrupt handler, how to execute and release a real-time program, how to write a real-time software scheduler, SYSGEN considerations, job control command, overlay loader commands, RAD Editor commands, SYSGEN commands, standard FORTRAN calling/receiving sequences.
90 17 00D	10/73	6.75	10.80	16.20	Xerox Real-Time Batch Monitor (RBM) /System Technical Manual (Sigma 5-9)
					Software Version: C03 Describes internal structure of RBM and is intended for use by maintenance programmers. Contents: RBM initialization routine, RBM control task, I/O handling methods, job control processor, foreground services,

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					miscellaneous services, RBM sizes, table formats, overlay loader, RAD Editor, system generation, system flags and pointers, paper tape standard format.
*****CP-R*****					
90 30 85C	11/74	12.00	19.20	28.80	Xerox Control Program for Real Time (CP-R) /RT,BP Reference Manual (Xerox 550 and Sigma 9) Software Version: C00 Describes external programming characteristics of CP-R and is intended for use by real-time programmers. Contents: Introduction, control commands, operator communications, input/output operations, user-task scheduling and operation, CP-R memory management, asynchronous operation control, CP-R debug service overlay loader, RAD editor, preparing the program deck, system generation, hardware configuration guidelines.
90 30 86C	11/74	2.00	3.20	4.80	Xerox Control Program for Real-Time (CP-R) /OPS Reference Manual (Xerox 550 and Sigma 9) Software Version: C00 Describes operating characteristics of CP-R and is intended for use by operation management in preparing detailed operating procedures. Contents: Introduction, operator/system interface, system control commands, running background jobs, running foreground, RAD editor operations, overlay loader operations.
90 30 87B	11/74	5.50	8.80	13.20	Xerox Control Program for Real-Time (CP-R) RT User's Guide (Xerox 550 and Sigma 9) Software Version: C00 Describes external programming characteristics of CP-R and is intended for

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					<p>use by real-time users. Contents: CP-R Operating System, multi-tasking concepts, memory management, how to compile and load jobs, how to assemble and load jobs, how to use the RAEDIT processor, how to build an overlay program, how to interface FORTRAN and assembly language programs, how to schedule real-time tasks, how to connect tasks to interrupts, FORTRAN programming techniques, assembly language programming techniques, how to write, execute, and release a real-time program, how to structure a real-time system, SYSGEN considerations, how to use CP-R debug, JCP control command specifications, overlay loader control command specifications, RAEDIT control command specifications, SYSGEN control command specifications, standard FORTRAN-IV-H calling/receiving sequences.</p>
90 31 10B	11/74	3.50	5.60	8.40	<p>Xerox Control Program for Real-Time/Availability Features/Reference Manual (Xerox 550 and Sigma 9)</p> <p>Software Version: C00</p> <p>Describes external programming characteristics of availability features. Contents: Introduction, error logging and recovery, analyze, device isolation and on-line device exercisers, error log lister, binary test deck, EBCDIC test deck, pseudo-random test deck, line printer exerciser output.</p>
90 30 88A	3/74	8.50	13.60	20.40	<p>Xerox Control Program for Real-Time (CP-R) System Technical Manual (Sigma 9)</p> <p>Software Version: A00</p> <p>Describes internal programming characteristics of CP-R and is intended for maintenance programmers. Contents: CP-R initialization, CP-R control task, I/O handling methods, job control processor, foreground services, monitor internal services, miscellaneous services, CP-R table formats, overlay loader, RAEDIT, system generation, CP-R flags and pointers, Sigma</p>

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					standard object language, Xerox standard compressed language, system overlay entry points.
*****BPM*****					
90 09 54H	3/73	8.00	12.80	19.20	Xerox Batch Processing Monitor (BPM) /BP,RT
90 09 54H-1	9/73	C	C	C	Reference Manual (Sigma 5-8)
					Software Version: H01
					Describes external programming characteristics of BPM and is intended for use by batch and real-time programmers. Contents: Overview, files and file usage, Monitor control commands, system procedures, I/O procedures, program load and execution, programming debugging aids, preparing the programming deck, procedures, remote batch system, real-time operations, data control block formats, Monitor error messages, use of temporary storage by library routines, cooperatives and symbionts.
90 17 41B	3/73	8.00	12.80	19.20	Xerox Batch Processing Monitor (BPM) and
90 17 41B-1	9/73	C	C	C	Batch Time-Sharing Monitor (BTM) /SM Reference Manual (Sigma 5-8)
					Software Version: H01
					Describes external programming characteristics of system management features of BPM/BTM and is intended for use by system managers, analysts, and programmers. contents: system management facilities, system overview, supervisor processor, user accounting, BTM Performance Monitor, processor and subsystem facilities, Monitor Dump Processor, BPM error logging routines. File Analyzer, hardware requirements, system generation overview, system generation details, bootstrap and patching operations, volume initialization, Sigma standard object language, Sigma standard compressed language, reference tables, ANSCII to EBCDIC conversion, EBCDIC to ANSCII conversion,

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					BPM/BTM Monitor sizing, real-time response time, labeled tape sentinels.
90 11 98F	3/73	2.75	4.40	6.60	Xerox Batch Processing Monitor (BPM) and Batch Time-Sharing Monitor (BTM) /OPS Reference Manual (Sigma 5-8)
90 11 98F-1	9/73	C	C	C	
					Software Version: H01
					Describes operating characteristics of BPM and BTM and is intended for use by operations management in preparing detailed operating procedures. Contents: Operating system conventions, system start-up and initialization, job and system controls, peripheral device handling, recovery and file preservation, task description.
90 17 83A	4/71	1.75	2.80	4.20	Xerox Batch Processing Monitor (BPM) /BP User's Guide (Sigma 5-8)
					Software Version: F00
					Describes how to use various batch processing features of BPM and is intended for use by Batch programmers. Contents: Operating system, job decks for assemblies and compilations, linking loader, one pass loader, program execution, file management processor, logical I/O devices, DCB creation, Monitor service calls, I/O function, special device functions, real-time programs, things to avoid.
90 15 28B	2/74	24.00	38.40	57.60	Xerox Batch Processing Monitor (BPM) /System Technical Manual (Sigma 5-8)
					Software Version: H01
					Describes internal structure of BPM and is intended for use by maintenance programmers. Contents: System overview, functional overview, initiation, recovery, error logging, background job processing, miscellaneous background services, debugging aids, foreground operations. Monitor overlay processing, traps and interrupts, memory management, basic input/output, input/output management, symbiont-cooperative system,

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					device input/output, file management, labeled tape operations, user communication (Control Command interpreters), operator communications, instruction simulation, Super, job accounting.
90 15 77F	8/72	3.50	5.60	8.40	Xerox Batch Time-Sharing Monitor (BTM) /TS
90 15 77F-1	3/73	C	C	C	Reference Manual (Sigma 5-8)
90 15 77F-2	9/73	C	C	C	
					Software Version: H01
					Describes external programming characteristics of BTM and is intended for use by time-sharing terminal users. Contents: User terminal functions, start-up procedure, Teletype operations, BTM Executive, Loader subsystem, RUN subsystem, terminal batch entry (BTP) subsystem, Symbol, Extended FORTRAN IV-H, BASIC operations, FERRET subsystem, Edit subsystem, Delta subsystem, BPI system CALs, BTM system CALs, subsystem interface, timing, ANSCII to EBCDIC conversion, EBCDIC to ANSCII, use of break key in debugging.
90 16 79E	9/74	5.00	8.00	12.00	Xerox Batch Time-Sharing Monitor (BTM) /TS User's Guide (Sigma 5-8)
					Software Version: H01
					Provides graphic and tabular presentation of time-sharing information for BTM and is intended for use by the time-sharing user. Contents: Executive functions, subsystem services, Teletype operations, Start-up and Executive, BASIC, Edit, FORTRAN, Loader, Ferret, Symbol, Terminal Batch Entry, Run.
90 18 79A	4/72	1.50	2.40	3.60	Xerox Batch Time-Sharing Monitor (BTM) / Delta Subsystem Technical Manual (Sigma 5-8)
					Software Version: F01
					Describes internal structure of the BTM Delta Subsystem and is intended for use by maintenance programmers. Contents: functional overview, interfaces, operation review, module analysis, subroutine analysis.

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90 19 11A	5/72	4.00	6.40	9.60	Xerox Batch Time-Sharing Monitor (BTM) /Edit Subsystem Technical Manual (Sigma 5-8) Software Version: F01 Describes internal structure of BTM Edit Subsystem and is intended for use by maintenance programmers. Contents: Functional overview, interface, operational overview, module analysis, general purpose subroutines.
90 30 61A	9/73	11.00	17.60	26.40	Xerox BPM/BTM/Subsystems and Utilities Technical Manual (Sigma 5-8) Software Version: G00 and H00 Describes the internal structure of BPM/BTM subsystems and utilities and is intended for maintenance programmers. Contents: Introduction, LOPE processor/subsystem, RUN, BPM subsystem, SUPER processor/subsystem, FPURGE processor, FERRET subsystem, EDCON, FAST SAVE processor, file analyzer processor.
*****BPM/BTM/CP-V*****					
90 18 03C	8/73	5.50	8.80	13.20	Xerox BTM/BPM/CP-V Overlay Loader Technical Manual (Xerox 560 and Sigma 5-9) Software Version: B00 (CP-V) and H01 (BPM/BTM) Describes internal structure of the Overlay Loader and is intended for use by maintenance programmers. Contents: environment, general operating characteristics, I/O loader-generated tables, description of first pass, preparing to form the core image, forming the core image (EUL), writing the load module (LRT), finishing up (MOD).
90 18 03C-1	9/74	C	C	C	
90 18 77B	9/73	13.00	20.80	31.20	Xerox BPM/BTM/UTS/System Generation Technical Manual (Sigma 5-9) Software Version: D00 (UTS) and H01 (BPM/BTM)

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<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
					Describes the internal structure of the system generation processors and is intended for use by maintenance programmers. Contents: SYSGEN overview, PASS2, PASS3, DEF, LOCCT, tables, files, subroutines.
90 18 86A	6/72	C	C	C	Xerox UTS/BTM/Edit Reference Card (Sigma 5-9) Software Version: C00 (UTS) and F01 (BTM)
					Specifies key reference information for UTS/BTM Edit and is intended for time-sharing users. Contents: Command structure, commands.
90 19 32B	4/73	3.75	6.00	9.00	Xerox BPM/BTM/UTS Peripheral Conversion Language Technical Manual (Sigma 5-9 Computers) Software Version: H00 (BPM/BTM) and D00 (UTS)
					Describes internal structure of PCL and is intended for use by maintenance programmers. Contents: PCL Executive routine, command processing subroutines, command scan routines, I/O subroutines, error subroutines, conversion subroutines.
*****CP-V/CP-R*****					
90 30 56A	10/73	2.25	2.60	5.40	Xerox Volume Initialization (VOLINIT) Technical Manual (Sigma 5-9) Software Version: C00
					Describes internal programming characteristics of VOLINIT and is intended for maintenance programmers. Contents: Functional overview, programming overview, operation overview, module analysis.
*****CP-V*****					
90 17 64F	10/74	9.75	15.60	23.40	Xerox Control Program-Five (CP-V) /BP Reference Manual (Xerox 560 and Sigma 6/7/9)

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					Software Version: C00 Describes the external programming characteristics of the batch processing features of CP-V and is intended for batch programmers. Contents: CP-V batch processing features, files and file usage, Monitor control commands, system procedure, I/O procedures, program load and execution, program debugging aids, preparing the program deck, processors, remote batch processing, data control blocks, Monitor error messages, use of temporary storage by library routines, cooperative and symbionts.
90 09 07F	2/74	6.50	10.40	15.60	Xerox Control Program-Five (CP-V) /TS
90 09 07F-1	10/74	C	C	C	Reference Manual (Xerox 560 and Sigma 6/7/9) Sigma 6/7/9)
					Software Version: C00 Describes external programming characteristics of CP-V time-sharing and is intended for use by time-sharing users. Contents: Time-sharing services, terminal operations, Terminal Executive Language, on-line language operations, Peripheral Conversion Language, Edit, Delta, Link processor, Monitor services to user programs, communication services to user programs, standard codes, Monitor error messages, comparison of CP-V and BTM time-sharing services.
90 16 74G	10/74	6.25	10.00	15.00	Xerox Control Program-Five (CP-V) /SM Reference Manual (Xerox 560 and Sigma 6/7/9)
					Software Version: C00 Describes external programming characteristics of system management features of CP-V and is intended for use by system programmers. Contents: Introduction, system overview, resource and limit management, user authorization, use accounting, system performance control, system peripheral control, maintenance of the file system, system generation, operational labels, physical device names.

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90 31 13A	10/74	8.25	13.20	19.80	Xerox Control Program-Five (CP-V) /System Programming Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C00 system programmers. Contents: Introduction, system overview, bootstrap and patching operations, monitor dump analysis program, error message file, system error log file, shared processor facilities, on-line peripheral diagnostic facilities, real-time procedures, transaction processing facilities, operational labels, physical device names, CP-V screech code, Xerox 560 remote assist station, ERRFILE formats, Xerox standard object language, Xerox compressed language, Xerox Standard symbols, codes, and correspondences.
90 16 75G	11.74	4.50	7.20	10.80	Xerox Control-Program-Five (CP-V) /DPS Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C00 Describes operating characteristics of CP-V and is intended for use by operations management in preparing detailed operating procedures. Contents: Key-in procedures and message formats, system start-up and initialization, job and system controls, peripheral device handling, recovery and file preservation, task descriptions.
90 16 92D	6/73	4.50	7.20	10.80	Xerox Control Program-Five (CP-V) /TS
90 16 92D-1	2/74	C	C	C	User's Guide (Xerox 560 and
90 16 92D-2	10/74	C	C	C	Sigma 6/7/9) Software Version: C00 Describes how to use time-sharing features of CP-V and is intended for use by time-sharing users. Contents: Logging on and off, terminal interface, manipulating files, using language processors, loading and executing object programs, debugging users programs, getting in and out of processors, assigning DCBs, controlling output, saving/ restoring core images and files, submitting batch jobs, communicating with operator.

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90 30 26B 90 30 26B-1	2/74 9/74	2.25 C	3.60 C	5.40 C	Xerox Control Program-Five (CP-V) /RP Reference Manual (Xerox 560 and Sigma 6/7/9)
					Software Version: C00
					Describes external programming characteristics of remote processing features of CP-V and is intended for use by programmers and operators. Contents: Introduction, local and remote users, remote operator, central site operator, system manager, connecting remote site and central site telephone lines, operation of IRBTS, operation of the Xerox 7670 Remote Batch Terminal, multileaving.
90 31 12A	10/74	7.50	12.00	18.00	Xerox Control Program-Five/Transaction Processing Reference Manual (Xerox 560 and Sigma 6/7/9)
					Software Version: C00
					Describes the external programming characteristics of transaction processing. Contents: Comprehensive system description, terminal interface controller, stations, user station controls, report delivery, transaction format descriptors, station names processor, report delivery processor, TFD processor, terminal interface controller job, the transaction processing controller, TPC subroutines, sample user module, and load module, TPC simulator, journalization, recovery, system start-up interruption- and termination, control of the terminal interface controller, control of the transaction processing load module, recovery procedures, operator error and information messages, common journal record formats, T:LOGON, TFD processing.
90 30 80A	4/74	1.75	2.80	4.20	Xerox Control Program-Five (CP-V) Common Index (Sigma 6/7/9)
					Software Version: B00
					Describes contents of six CP-V user manuals. Contents: Index for BP, TS, SM, RP, OPS, SP Reference Manuals and TS User's Guide.

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90 31 31A	12/74	C	C	C	Xerox Control Program-Five (CP-V) /Pocket Guide Software Version: B00 Specifies key reference information for CP-V and is intended for use by programmers. Contents: TEL, PCL, Link, Job Control Commands, Edit, BASIC, Extended FORTRAN IV, FORTRAN Debug Package, Delta, TEXT, Symbol-Code Correspondences, Sigma 9 Instructions and OP Codes, Error Messages, other Monitor Error Codes, ANS Labeled Tape Abnormal Codes, Illegal traps.
90 18 83D	12/74	C	C	C	Xerox CP-V/TS Reference Card (Sigma 6/7/9) Software Version: C00 Specifies key reference information for UTS Time-sharing languages and is intended for use by time-sharing users. Contents: terminal operations, TEL commands, PCL commands, Link commands.
90 18 87C	10/73	C	C	C	Xerox CP-V Delta/Reference Card (Sigma 6/7/9) Software Version: A00 Specifies key reference information for CP-V Delta and is intended for time-sharing users. Contents: Special symbols, format codes, commands, Executive Delta.
90 19 84A	9/73	6.00	9.60	14.40	Xerox Universal Time-Sharing System (UTS) / Overview and Index Technical Manual (Sigma 6/7/9) Software Version: C01 Describes overview of internal structure of UTS and is intended for use by maintenance programmers. Contents: Introduction, concepts, memory layout, monitor functional structure, monitor physical structure, UTS processors, index to technical manuals.

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90 19 85A	2/73	5.25	8.40	12.60	Xerox UTS/Basic Control and Basic I/O Technical Manual (Sigma 6/7/9) Software Version: B01/C01 Describes internal structure of Basic Control and Basic I/O modules and is intended for use by maintenance programmers. Contents: Basic Control, ENTRY, CALPROC, ALTCP, TABLES, S9TRAPS, Error Trap Handlers. DEVICE I/O, Swapping RAD I/O, COC Terminal I/O, COC Control Routines.
90 19 86A	2/73	4.25	6.80	10.20	Xerox Universal Time-Sharing System (UTS) System and Memory Management Technical Manual (Sigma 6/7/9) Software Version: D00 Describes internal structure of System and Memory Management modules and is intended for use by maintenance programmers. Contents: Scheduler, Swap Scheduler, Job Step Control, Swapper, CLOCK4, Memory Management, ALLOCAT.
90 19 86A-1	5/73	C	C	C	
90 19 87A	2/73	3.00	4.80	7.20	Xerox Universal Time-Sharing System (UTS) / Symbiont and Job Management Technical Manual (Sigma 6/7/9) Software Version: C01 Describes internal structure of Symbiont and Job Management modules and is intended for use by maintenance programmers. Contents: Symbiont activation routine, user interface, input symbiont routine, output symbiont routine, get a file, symbiont core and RAD management, request symbiont granule, request symbiont core buffer, release symbiont core buffer, symbiont ghost communication, operator-symbiont communication, symbiont subroutines, other miscellaneous, suspend symbiont, symbiont file handling, multi-batch scheduler, remote batch processing.

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90 19 88A	2/73	5.50	8.80	13.20	Xerox Universal Time-Sharing System (UTS) Operator Communication and Monitor Services Technical Manual (Sigma 6/7/9) Software Version: C01 Describes internal structure of Operator Communication and Monitor Services modules and is intended for use by maintenance programmers. Contents: Operator communication, CAL processors, System performance measurement, accounting, load and link.
90 19 89A	2/74	6.75	10.80	16.20	Xerox Universal Time-Sharing System (UTS) File Management Technical Manual (Sigma 6/7/9) Software Version: C01 Describes internal structure of File Management modules and is intended for maintenance programmers. Contents: File management disk, file management tape.
90 19 90A 90 19 90A-1	2/73 8/73	8.25 C	13.20 C	19.80 C	Xerox Universal Time-Sharing System (UTS) Reliability and Maintainability Technical Manual (Sigma 6/7/9) Software Version: D00 Describes internal structure of Reliability and Maintainability modules and is intended for use by maintenance programmers. Contents: System consistency checks, diagnostic and exerciser interface, error logging routine, copy error log, print error summary, error log lister, power fail safe recovery, Delta, user program debugging, RUNNER, debug routines, TELLUSR, DUMP, SCREECH, ANALYZE, RELOAD, DRSP.
90 19 92A 90 19 92A-1	2/73 5/73	3.50 C	5.60 C	8.40 C	Xerox Universal Time-Sharing System (UTS) Initialization and Recovery Technical Manual (Sigma 6/7/9)

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					Software Version: D00 Describes internal structure of Initialization and Recovery and is intended for use by maintenance programmers. Contents: INITIAL, BOOTSUBR, GHOSTID, PHASEC, SYSMAK, SYSMKI, GPHGP, RCVCT, TSTHGP, CYCUSK, SYMFILES, RCVRIO, RCVDEF, RECOVERZ, HGPRECON.
80 19 93A	2/73	6.75	10.80	16.20	Xerox Universal Time-Sharing System (UTS) Command Processors Technical Manual (Sigma 6/7/9) Software Version: C01 Describes internal structure of command processors and is intended for use by maintenance programmers. Contents: Executive routine, terminal executive language, LOGON.
80 19 94A	2/73	4.75	7.60	11.40	Xerox Universal Time-Sharing System (UTS) System Processors Technical Manual (Sigma 6/7/9) Software Version: D00 Describes internal structure of System Processors and is intended for use by maintenance programmers. Contents: Accounting rates structure, authorized users, performance Monitor, performance summary, on-line one passloader, terminal batch entry subsystem, create load module containing DEFs only, symbol table control, error message file writer, system messages to users, System UTS, System BPM (for UTS) System FOOMON, CLEAR, LIF.
80 19 94A-1	7/73	C	C	C	
80 19 95C	11/74	12.00	19.20	28.80	Xerox Control Program-Five (CP-V) /Data Base Technical Manual (Xerox 560 and Sigma 6/7/9) Software Version: C00 Describes internal structure of data base and is intended for use by maintenance

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					<p>programmers. Contents: Job information tables, scheduler, user tables, shared processor tables, memory allocation, input/output tables, file tables symbionts and cooperatives, multi-batch scheduler tables, error log, assign-merge table, error codes, and error messages, loader tables, real time, ENQ/DEQ, remote processing, scratch codes.</p>

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*****ASSEMBLERS*****

90 17 90A	6/71	1.75	2.45	3.85	Xerox Symbol/LN,OPS Reference Manual (Sigma 5-9)
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Software Version: H00

Describes external programming characteristics of Symbol and is intended for use by assembly language programmers. Contents: Programming features and operations, language elements and syntax, addressing, instructions, symbol directives, assembly listings, operations, summary of directives, summary of instruction mnemonics.

90 09 52F	9/72	4.75	6.65	10.45	Xerox Meta-Symbol/LN,OPS Reference Manual (Sigma 5-9)
90 09 52F-1	10/73	C	C	C	

Software Version: H01

Describes external programming characteristics of Meta-Symbol and is intended for use by assembly language programmers. contents: Programming features and operations, language elements and syntax, addressing, directives, procedures and lists, assembly listings, operations, summary of directives, summary of mnemonics.

90 15 78B	6/72	2.75	3.85	6.05	Xerox Macro-Symbol/LN,OPS Reference Manual (Sigma 5-9)
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Software Version: C00

Describes external programming characteristics of Macro-Symbol and is intended for use by assembly language programmers. Contents: Programming features, Macro-Symbol language elements and syntax, addressing, instructions, directives, procedures, assembly listings, operations, summary of Macro-Symbol directives, Macro-Symbol compatibility, summary of mnemonics.

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90 30 00C	12/73	4.00	5.60	8.80	Xerox Assembly Program (AP)/LN,OPS Reference Manual (Sigma 5-9)
					Software Version: B00
					Describes external programming characteristics of AP and is intended for use by assembly language users. Contents: Introduction, language elements and syntax, addressing, directives, procedures, assembly listing, control card options, updating a compressed deck, concordance listing, pre-encoded files, error messages, summary of Sigma instruction mnemonics.
*****FORTRAN IV*****					
90 09 56E	2/73	6.50	9.10	14.30	Xerox Extended FORTRAN IV/LN Reference Manual (Sigma 5-9)
					Software Version: E00
					Describes external programming characteristics of FORTRAN IV language and is intended for use by FORTRAN programmers. Contents: Data expressions, assignment statement, control statements, input/output statements, declaration statements, programs and subprograms, miscellaneous features, other features accepted for compatibility, Extended FORTRAN IV statements, characters acceptable in column 1, syntax ambiguities, Extended FORTRAN IV character set, real-time features.
90 11 43D	5/71	4.00	5.60	8.80	Xerox Extended FORTRAN IV/OPS Reference Manual (Sigma 5-9)
90 11 43D-1	2/73	C	C	C	
					Software Version: E00
					Describes operating system interface characteristics of Extended FORTRAN IV and is intended for use by FORTRAN programmers. Contents: Compiler, library structure, calling and receiving sequences, interface with assembly language, input/output, job setup, operational considerations, real-time features, argument setup routines, sample

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					diagnostic listing, sample library listings, Extended FORTRAN IV character set.
90 18 88B	2/73	C	C	C	Xerox Extended FORTRAN IV/Reference Card (Sigma 6/7/9)
					Software Version: E00
					Specifies key reference information for Extended FORTRAN IV and is intended for use by FORTRAN programmers. Contents: declaration statements, assignment statement, control statements, input/output statements, subprogram statements, compiler options.
90 15 24E	6/73	4.00	5.60	8.80	Xerox Extended FORTRAN/Library Technical Manual (Sigma 5-9)
					Software Version: E00
					Describes internal structure and external characteristics of Extended FORTRAN IV and Extended FORTRAN IV-H, library and is intended for use by FORTRAN programmers. Contents: Library routines, interfacing, register conventions, parameterization, operating environment, library ordering, library loading, program descriptions.
90 31 14A	6/74	25.25	35.35	55.55	Xerox Extended FORTRAN IV/Technical Manual (Sigma 5-9)
					Software Version: E00
					Describes internal structure of Extended FORTRAN IV and is intended for maintenance programmers. Contents: Overview, specific areas, throughviews, external mechanics.
*****MATH ROUTINES*****					
90 09 06E	6/71	2.50	3.50	5.50	Xerox Mathematical Routines/Technical Manual (Sigma 5-9)
					Software Version: D00

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Describes internal structure and external characteristics of mathematical routines and is intended for use by programmers (FORTRAN, Meta-Symbol, etc.). Contents: Calling sequences, error conditions and actions, reentrancy, trap conditions, accuracy, program descriptions, table of subroutines, order of math routines in library.

*****FORTRAN IV-H*****

90 09 66E	3/70	3.75	5.25	8.25	
90 09 66E-1	6/71	C	C	C	

Xerox Extended FORTRAN IV-H/LN Reference Manual (Sigma 5-9)

Software Version: D00

Describes external programming characteristics of Extended FORTRAN IV-H and is intended for use by FORTRAN programmers. Contents: Description of FORTRAN IV-H programs, data, expressions, assignment statement, programs and subprograms, FORTRAN IV-H character set, FORTRAN IV-H statements, real-time features.

90 11 44D	3/71	1.25	1.75	2.75	
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Xerox Extended FORTRAN IV-H/OPS Reference Manual (Sigma 5-9)

Software Version: D00

Describes operating system interface characteristics of Extended FORTRAN IV-H and is intended for use by FORTRAN programmers. Contents: Compiler, subprograms, program compilation and execution, input/output operations, FORTRAN IV-H character set, symbolic coding.

*****FORTRAN DEBUG*****

90 16 77A	7/70	2.50	3.50	5.50	
90 16 77A-1	9/71	C	C	C	

Xerox FORTRAN Debug Package (FDP) /Reference Manual (Sigma 5-9)

Software Version: E00

Describes external programming characteristics of FDP and is intended for use by FORTRAN programmers. Contents: Batch

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and on-line debugging capabilities, input/output, typical use of debugging commands, debugger interfacing, debugger command language, description of commands, operations, restrictions and limitations, information messages and error messages, batch usage.

90 17 44B	1971	C	C	C
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Xerox FORTRAN Debug Package (FDP) /Reference Card (Sigma 5-9)

Software Version: E00

Specifies key reference information for FDP and is intended for use by FORTRAN programmers. Contents: Guide to FDP commands, FDP command table, symbols and abbreviations used in describing debug commands.

*****FORTRAN LOAD AND GO*****

90 16 54C	9/74	5.25	7.35	11.55
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Xerox FLAG/Reference Manual (Sigma 5-8)

Software Version: D00

Describes external programming characteristics of FLAG and is intended for use by FORTRAN programmers. Contents: FLAG compiler, data, expressions, assignment statement, control statements, input/output, declaration statements, program and subprograms, operations, FLAG statements.

*****COBOL*****

90 15 00C	9/73	5.25	7.35	11.55
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Xerox ANS COBOL/LN Reference Manual (Sigma 5-9)

Software VERSION: E00

Describes external characteristics of COBOL programming language and is intended for use by COBOL programmers. Contents: COBOL language structure, input/output processing, identification division, environment division, data division, procedure division,

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report writer, sort feature, COBOL library, subcompile feature, priority segmentation, debugging statements, ANS COBOL reserved words, sample ANS COBOL program, slack bytes, evaluation of arithmetic-expressions, Sort features sample program, report writer sample program, compiler diagnostics, reference tables.

90 15 01F	9/73	3.00	4.20	6.60
90 15 01F-1	3/74	C	C	C

Xerox ANS COBOL/OPS Reference Manual (BPM/ (BPM/CP-V) (Sigma 5-9)

Software Version: E00

Describes operating system interface for ANS COBOL and is intended for use by COBOL programming. Contents: Compiler, object program, program compilation and execution.

90 30 60A	9/73	1.25	1.75	2.75
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Xerox ANS COBOL/On-Line Debugger Reference Manual (Sigma 5-9)

Software Version: E00

Describes external programming characteristics of the on-line COBOL debugger. Contents: Introduction, debugger interfacing, debugger command language, typical use of debugging commands, description of commands, operations, debugger messages, a sample debugging session.

*****IDP*****

90 30 66A	12/73	1.50	2.10	3.30
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Xerox Interactive Data Processor/LN, OPS Reference Manual (Sigma 6/7/9)

Software Version: A00

Describes external programming characteristics of IDP and is intended for use by business programmers. Contents: Introduction, IDP operations, IDP query language, description of IDP commands, IDP error messages, IDP limitations.

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*****RPG*****

90 19 99A	2/73	6.25	8.75	13.75	Xerox Report Program Generator (RPG)
90 19 99A-1	5/74	C	C	C	(Sigma 5-9 Computers)

Software Version: A00

Describes external programming characteristics of RPG and is intended for use by business programmers. Contents: Description of RPG, RPG programming, RPG source language and specifications, use of tables in RPG programming, advanced use of RPG, sample RPG programs, summary of RPG specifications, summary of indicators, diagnostic messages, detailed RPG object program logic, program conversion hints, use of external subroutines, compiler options, job setup.

*****APL*****

90 19 31B	10/73	7.50	10.50	16.50	Xerox APL/LN,OPS Reference Manual (Sigma 6/7/9)
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Software Version: B00

Describes external characteristics of APL programming language and is intended for use by APL programmers. Contents: Using APL, common elements in APL, expression evaluation, APL operators, APL statements, defined functions, system commands, report formatting, execution stops, error messages, nonstandard input/output.

*****BASIC*****

90 15 46G	8/74	3.00	4.20	6.60	Xerox BASIC/LN,OPS Reference Manual (Sigma 5-9)
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Software Version: D01 (BPM) and C01 (CP-V)

Describes external programming characteristics of BASIC and is intended for use by BASIC users. Contents: Beginning

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BASIC, elementary features of BASIC, advanced features of BASIC, BASIC commands, batch processing, BASIC messages, summary of BASIC statements, summary of BASIC commands, BASIC intrinsic functions, summary of UTS BASIC operating procedures, format of binary data files for BASIC (PUT and GET operations), BPM/BTM/UTS I/O control.

90 18 85A	6/72	C	C	C	
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Xerox BTM BASIC/Reference Card (Sigma 5-8)

Software Version: D01

Specifies key reference information for BTM BASIC and is intended for use by BASIC users. Contents: Establishing connection with BASIC, terminating the session, terminal operations, abbreviations, statements, editing commands, intrinsic functions.

90 18 84B	9/73	C	C	C	
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Xerox CP-V BASIC/Reference Card (Sigma 6/7/9)

Software Version: C01

Specifies key reference information for UTS BASIC and is intended for use by BASIC users. Contents: Establishing a connection with BASIC, terminating the session, terminal operations, abbreviations, statements, editing commands, intrinsic functions.

*****EASY*****

90 18 73A	9/72	2.25	3.15	4.95	
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Xerox Easy/LN,OPS Reference Manual (Sigma 6/7/9)

Software Version: A00

Describes external characteristics of Easy and is intended for use by Easy users. Contents: Easy file system, Easy commands, beginning BASIC, elementary features of BASIC, advanced features of BASIC, BASIC messages, summary of BASIC statements, BASIC intrinsic functions, format of binary data

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files for BASIC, Easy error messages, Flag additions

*****MISCELLANEOUS*****

90 15 02A	4/68	.75	1.05	1.65
90 15 02A-1	1/71	C	C	C

Xerox 1400 Series Simulator/Reference Manual (Sigma 5-9)

Software Version: F00

Describes operating characteristics of 1400 Series Simulator and is intended for use by operations management in preparing detailed operating procedures. Contents: Special 1400 features, limitations, simulation method, 1400 control console simulation, simulator control entries, tape conversion program, loading 1400 Series Simulator Program, input/output simulation, console messages, 1400 Series Simulator System organization, simulated 1400 Series instructions, 1400 Series instructions treated as "no operation", nonsimulated 1400 Series instructions.

90 16 32A	3/71	1.75	2.45	3.85
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Xerox Graphic Display Library/Reference Manual (Sigma 5-9)

Software Version: B00 - Nonsupported product.

Describes external programming characteristics of Graphic Display Library and is intended for use by application programmers. Contents: Physical and functional description, subroutine calling conventions, universal arguments, naming conventions, error conventions, initialization and termination, operations on display information, element operations, controlling image parameters and light gun, changing display commands, controlling execution of display commands, GDL interrupts, character input, file management of images, coding for types of GDL displays, coding and description for GDL display of running clock, index to subroutines, how to

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add GDL to system, list of GDL routines, tables generated in tables routines and used throughout GDL, context area description and diagrams.

*****SORT*****

90 11 99G	10/73	2.25	3.15	4.95
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Xerox Sort-Merge/Reference Manual (Sigma 5-9)

Software Version: E00

Describes programming characteristics of Sort-Merge and is intended for use by application programmers. Contents: Program features, operating modes, key fields, messages, Sort control record layout, Sort file characteristics, Sort operating examples, read-backward polyphase technique, Sort structure and core allocation, Sort use of magnetic tape for intermediate work files, Merge system library control, Merge control record layout, Merge operating examples, Sort messages.

*****MANAGE*****

90 16 10B	7/70	2.75	3.85	6.05
90 16 10B-1	4/71	C	C	C
90 16 10B-2	10/71	C	C	C

Xerox Manage/Reference Manual (Sigma 5-9)

Software Version: C00

Describes external programming characteristics of file management system (Manage) and is intended for use by application programmers. Contents: Program characteristics, Dictionary program, Data File program, Data Retrieval and Report programs, Terminal-Oriented Manage, messages, sample program deck setups, DCB names for Manage processors, own-code linkage for Fileup, sample Manage runs.

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*****TEXT*****

90 18 51B	11/74	3.25	4.55	7.15	Xerox TEXT/LN,OPS Reference Manual (Xerox 560 and Sigma 6/7/9)
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Software Version: A02

Describes external features of Xerox TEXT and is intended for use by terminal users. Contents: Overview, terminal operations, basic text commands, advanced commands, summary of TEXT commands, summary of TEXT messages.

90 30 50A	6/73	C	C	C	Xerox TEXT/Reference Card (Sigma 6/7/9)
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Software Version: A01

Specifies key reference information for TEXT and is intended for use by TEXT terminal users. Contents: Embedded commands, editing commands, printout commands, storage and retrieval commands, miscellaneous commands.

*****FMPS*****

90 17 05A	7/70	6.50	9.10	14.30	Xerox GAMMA3 (Matrix Generator and Report Writer for FMPS) /Reference Manual (Sigma 5-8)
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Software Version: B00

Describes external programming characteristics of GAMMA3 and is intended for use by mathematical programmers. Contents: General description, operations, card formats, input deck organization, GAMMA3 program and files, general concepts and utility statements, tables, lists, retrieving tables or lists with COPY statement, problem definitions, rows definition, column definition, DO and END DO statements, report definition, format statement, line statement, report definition arithmetic, page headings, report publishing, sample problem, reference lists, statements, diagnostics, GAMMA3 system limits.

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<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	
90 16 09B	8/70	4.00	5.60	8.80	Xerox Functional Mathematical Programming System/Reference Manual (Sigma 5-8)
90 16 09B-1	5/71	C	C	C	

Software Version: B00

Describes external characteristics of FMPS and is intended for use by mathematical programmers. Contents: Procedures for solving linear programming problems, FMPS fundamentals, control language statements, basic FMPS procedures, data card formats and deck organization, linear programming operating mode, separable programming operating mode, operating procedures, parametric programming, FMPS error messages, FMPS sample runs.

*****SL-1*****

90 16 76B	2/72	3.75	5.25	8.25	Xerox SL-1 Reference Manual (Sigma 5-9)
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Software Version: B00

Describes external programming characteristics of SL-1 and is intended for use by simulation programmers. Contents: General description and features, relationship to FORTRAN and Symbol, elementary constructions, sorting, program structures, SL-1 Translation information statements, centralized integration system input/output macros, conditional processing, macros, assembly language coding and micro blocks, function generation, simulation operators, run-time interaction, real-time and hybrid features, diagnostics, programming notes, SL-1 parameter limits, operating procedures.

*****CIRC*****

90 16 97B	12/74	4.00	5.60	8.80	Xerox CIRC-DC/Reference Manual (Sigma 5-9)
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Software Version: B00

Describes external programming characteristics of CIRC-DC and is intended for use by engineering programmers. Contents: Program description, modes of

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<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>
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30 16 98A	9/70	4.25	5.95	9.35
30 16 98A-1	11/71	C	C	C

operation, executive systems, summary of salient features, example programs, circuit description elements, input to CIRC-DC, CIRC models, program control and control messages, worst case analysis, circuit size limitations, trouble-shooting an analysis, special equations, CIRC start-up procedures, CIRC elements, transistor element-equation presentation, brief theoretical discussion of CIRC, control messages, memory layout for CIRC, keypunch compatibility, compacted data option, CIRC abort and restart.

Xerox CIRC-AC/Reference Manual (Sigma 5-9)

Software Version: B00

Describes external programming characteristics of CIRC-AC and is intended for use by engineering programmers. Contents: Program description, modes of operation, summary of features, example problems, CIRC's elements for describing circuits, input, CIRC models, program control and control messages, loop analysis technique, plotting results, circuit size limitations, troubleshooting an analysis, special equations, equivalent circuit modelling using CYS and VZS elements, CIRC start-up procedures, CIRC-AC elements, derivation of equation defining \tilde{z}_1 , brief theoretical discussion of CIRC-AC, control messages, memory layout for CIRC, keypunch compatibility, compacted data option, CIRC abort and restart, Y equivalent circuit example.

30 17 86A	8/71	4.50	6.30	9.90
30 17 86A-1	1/72	C	C	C

Xerox CIRC-TR/Reference Manual (Sigma 5-9)

Software Version: A00

Describes external programming characteristics of CIRC-TR and is intended for use by engineering programmers. Contents: Program description elements, input to CIRC-TR, CIRC models, program control and control messages, details on

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CIRC-TR's output options, circuit size limitations, troubleshooting an analysis, special equations, CIRC start-up procedures.

*****DMS*****

90 17 38B	3/73	3.00	4.20	6.60
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Xerox Data Management System (DMS) / Reference Manual (Sigma 5-9)

Software Version: .B01

Describes external programming characteristics of DMS and is intended for use by business programmers. Contents: Overview, DMS file structure characteristics, data description language, procedural interface, operational interface.

90 30 12C	12/74	4.50	6.30	9.90
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Xerox Extended Data Management System (EDMS) Reference Manual (Sigma 6/7/9)

Software Version: B00 (A00 restructuring)

Describes external programming characteristics of EDMS and is intended for use by business programmers. Contents: Extended DMS overview, file definition processor, database manager, EDMS utility processors, schema file, subschema file, sample database definition, database page formats, sequential file formats, error messages.

90 30 37A	7/73	2.00	2.80	4.40
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Xerox Extended Data Management System (EDMS) User's Guide (Sigma 6/7/9)

Software Version: A00

Describes external programming characteristics of EDMS and is intended for use by business programmers. Contents: Introduction, database design, database definition, program design, program coding, database initialization, loading and running programs, backup and recovery, sample database problem.

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*****GPDS*****

90 17 58B	11/72	9.25	12.95	20.35	Xerox General Purpose Discrete Simulator (GPDS) /Reference Manual (Sigma 5-9)
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Software Version: C00

Describes external programming characteristics of GPDS and is intended for use by engineering and administrative programmers. Contents: General description, structure of GPDS, GPDS conventions, GPDS program principles, basic entities—blocks and transactions, equipment entities, computational entities, statistical entities, SAVEVALUE entities, chain entities, blocks used in program output, interfacing with user subroutines, GPDS control cards, assembly program and control cards, output editor, system organization procedures, overall GPDS scan, error messages, standard numerical and logical attributes, block formats and symbols, effect of RESET and CLEAR cards, reallocation of core, standard statistical printout, GPDS load modules and overlay structure.

90 30 62A	10/73	9.75	13.65	21.45	Xerox APT3 (Level 3) Numerical Control Compiler Programming Manual (Sigma 3, 5, 6, 7, 8, 9)
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Describes the external programming characteristics of APT3. Contents: Introduction, punctuation and grammar, program sequence, solution library, motion statements, postprocessing, special capabilities, error codes and diagnostic statement dictionary, canonical forms, sample programs.

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HARDWARE DIAGNOSTICS
XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

PUBLICATION REVISION
NUMBER DATE PRICE TITLE

*****CENTRAL PROCESSING UNITS*****

90 06 76D-3	6/73	3.25	Sigma 2/3 Memory (8K) Test (MEDIC) Diagnostic Program Manual
90 10 07E	9/69	4.00	Diagnostic Program Manual Sigma 2 CPU (Auto)
90 11 24C	11/69	.75	Diagnostic Program Manual Sigma 2 Diagnostic Binary Generator (2 DIBIGEN)
90 11 37E-2	1/74	5.00	Diagnostic Program Manual Sigma 2/3 External Interrupt
90 11 60D-2	1/74	1.25	Diagnostic Program Manual Sigma 2/3 Power Fail Safe Test
90 11 37E-2	1/74	5.00	Diagnostic Program Manual Sigma 2/3 External Interrupt
90 11 60D-2	1/74	1.25	Diagnostic Program Manual Sigma 2/3 Power Fail Safe Test
90 11 64E	11/69	2.25	Diagnostic Program Manual Sigma 2/3 Real-Time Clock Test
90 15 58C	8/69	1.00	Sigma 2/3 Relocatable Diagnostic Program Loader
90 15 60B	9/69	5.25	Diagnostic Program Manual Sigma 2/3 Channel Interface Unit Test
90 15 71B	8/69	.50	Diagnostic Program Manual Sigma 2 Watchdog Timer Test
90 15 89B	12/69	2.50	Diagnostic Program Manual Sigma 3 CPU Extended Arithmetic
90 16 04B	11/69	3.00	Diagnostic Program Manual Sigma 3 Memory Diagnostic
90 16 03C	4/70	1.25	Diagnostic Program Manual Sigma 2/3 Memory Protect Test
90 16 08C	6/70	4.25	Diagnostic Program Manual Sigma 3 CPU Diagnostic Auto
90 16 15B	12/69	1.50	Diagnostic Program Manual Sigma 3 Multiport Memory Random Exerciser Test
90 16 46B	12/69	2.50	Diagnostic Program Manual Sigma 3 External IOP Test
90 16 50D	1/72	2.50	Diagnostic Program Manual Sigma 2/3 Diagnostic Program Monitor
90 16 59A	9/69	3.00	Diagnostic Program Manual Sigma 3 Integral IOP Test
90 16 66A	11/69	1.75	Diagnostic Program Manual Sigma 2/3 System Exerciser
90 08 39C	6/71	2.75	Diagnostic Control Program for Sigma 2/3 Computer Peripheral Devices

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XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
		90 11 27B 8/69 4.50	Diagnostic Program Manual Sigma 2 I/O Test Utility program
90 11 31D	11/69	1.25	Diagnostic Program Manual Sigma 2 Integral IOP and Write Direct Interface Test
*****PERIPHERALS*****			
90 11 55C-3	3/74	7.50	Diagnostic Program Manual Sigma 2 Paper Tape Reader/Punch Test
90 11 59C	11/69	4.00	Diagnostic Program Manual Sigma 2 Line Printer Test
90 11 62B	9/69	6.00	Diagnostic Program Manual Sigma 2/3 Card Reader Punch Test
90 11 63C	1/71	2.50	Diagnostic Program Manual Sigma 2/3 Keyboard Printer (KSR/ASR) Test
90 11 68E	1/71	8.00	Diagnostic Program Manual Sigma 2/3 Character Oriented Communication Controller Test
90 15 08B	8/69	4.25	Diagnostic Program Manual Sigma 2/3 Keyboard Display Test
90 15 10C	8/69	4.25	Diagnostic Program Manual Sigma 2/3 Data Set Controller Test
90 15 12C	8/69	3.75	Diagnostic Program Manual Sigma 2/3 Automatic Dialing Equipment Test
90 15 17C	11/69	3.00	Diagnostic Program Manual Sigma 2/3 Graph Plotter
90 15 49C	8/69	4.25	Diagnostic Program Manual Sigma 2/3 Peripheral Switching Equipment Test
90 15 53C	8/69	4.25	Diagnostic Program Manual Sigma 2/3 Low Speed Card Punch Test
90 15 59B	8/69	4.00	Diagnostic Program Manual Sigma 2/3 Remote Batch Terminal Test
90 15 98B	9/69	3.75	Diagnostic Program Manual Sigma 2/3 Low Speed Line Printer
90 16 13B	5/72	.75	Diagnostic Program Manual Sigma 2/3 Removable Disk Storage Unit (DPY)
90 16 19E	12/73	.25	Diagnostic Program Manual Sigma 2/3 ASR/KSR Test
90 16 63B	4/70	.25	Diagnostic Program Manual Sigma 2/3 Diagnostic Program Magnetic Tape Library
90 16 65A	11/69	3.75	Diagnostic Program Manual Sigma 2/3 Magnetic Tape Library Control Program

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XEROX 530 AND SIGMA 2/3 DIAGNOSTIC MANUALS

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 17 21B-1	1/74	.50	Diagnostic Program Manual Sigma 2/3 Comprehensive RAD Test
90 17 22B	4/72	.50	Diagnostic Program Manual Sigma 2/3 9-Channel Magnetic Tape Test
90 17 34B	4/72	.50	Diagnostic Program Manual Sigma 2/3 7-Channel Magnetic Tape Test
90 17 57A-2	2/74	5.25	Diagnostic Program Manual Xerox 530 and Sigma 2/3 - Comprehensive Card Equipment Test Plan

PUBLICATIONS - XEROX 530, 550, 560 AND SIGMA COMPUTERS

HARDWARE DIAGNOSTICS
SIGMA 5-9 DIAGNOSTIC MANUALS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>
*****CENTRAL PROCESSING UNITS*****				
90 07 12B	11/69	2.50		Diagnostic Control Program for Sigma 5/7 Computer Peripheral Devices
90 08 25D	7/69	3.50		Diagnostic Program Manual Sigma 5/7 Memory (8K) Test (MEDIC 75) Preliminary
90 08 70D	11/69	2.75		Diagnostic Program Manual Sigma 5/7 CPU (Verify)
90 08 72D	2/70	6.25		Diagnostic Program Manual Sigma 7 CPU (Auto)
90 08 91D-2	6/73	1.50		Diagnostic Program Manual Sigma 5/7 CPU (Pattern)
90 08 93C	11/69	2.75		Diagnostic Program Manual Sigma 7 (Suffix)
90 08 98D	4/70	3.50		Diagnostic Program Manual Sigma 7 CPU (Float)
90 09 08C	2/70	3.00		Diagnostic Program Manual Sigma 7 CPU (Decimal)
90 09 20D	8/70	1.50		Diagnostic Program Manual Sigma 7 CPU (Map)
90 09 72D	7/69	1.00		Diagnostic Program Manual Sigma 5/7 Relocatable Diagnostic Program Loader
90 10 71B	7/69	.75		Diagnostic Program Manual Sigma 5/7 Memory Interleaving Test (MIT)
90 11 34E	12/72	2.75		Diagnostic Program Manual Sigma 5/7 Interrupt Test
90 11 35C	7/69	.75		Diagnostic Program Manual Sigma 5/7 Power Fail Safe Test
90 11 38F	7/69	1.00		Diagnostic Program Manual Sigma 5/7 Real Time Clock Test
90 15 16B	7/69	1.25		Diagnostic Program Manual Sigma 5/7 CPU (Memory Protect)
90 15 19C	7/69	2.25		Diagnostic Program Manual Sigma 5 CPU (Suffix)
90 15 23F	2/73	6.50		Diagnostic Program Manual Sigma 5 CPU Program Test (Auto)
90 15 3SD-1	7/73	5.50		Diagnostic Program Manual Sigma 5/7 Peripheral Switching Equipment Test
90 15 51C-1	2/74	5.25		Diagnostic Program Manual Sigma 5-9 Channel Interface Unit Test
90 15 54D	7/69	2.75		Diagnostic Program Manual Sigma 5/7 4-Byte MIOP Test
90 15 84B	7/69	.50		Diagnostic Program Manual Sigma 5/7 CPU Format Converter/CPU Loader

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<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>
SO 16 48B	2/70	2.50	Diagnostic Program Manual	Sigma 5/7 Stand Alone System Exerciser (Swap 35)
SO 16 49D-2	3/74	.75	Diagnostic Program Manual	Sigma 5-9 Diagnostic Program Monitor Program Monitor
SO 16 87A	6/70	3.50	Diagnostic Program Manual	Sigma 5/7 Memory Diagnostic - Fault Locator
SO 17 37B-3	1/73	4.00	Diagnostic Program Manual	Sigma 5/7 New System Exerciser (SEX)
SO 18 08A	8/71	1.25	Diagnostic Program Manual	Sigma 5/7 Super Swap (102)
SO 18 78A	11/72	1.75	Diagnostic Program Manual	Sigma 8/9 Mainframe MIOP Memory Diagnostic
*****PERIPHERALS*****				
SO 11 25D	7/69	5.00	Diagnostic Program Manual	Sigma 5/7 Card Reader/ Punch System Test
SO 17 56A	10/71	.75	Diagnostic Program Manual	Sigma 5-9 Comprehensive Card Equipment
SO 11 26B	11/69	3.00	Diagnostic Program Manual	Sigma 5/7 Multiplex IOP Test
SO 11 32E	11/69	3.00	Diagnostic Program Manual	Sigma 5/7 Paper Tape Reader - Punch Test
SO 11 56G-1	7/73	6.75	Diagnostic Program Manual	Sigma 5/7 Character Oriented Communication Controller
SO 11 58C	2/70	2.75	Diagnostic Program Manual	Sigma 5/7 Selector IOP Channel Test
SO 11 61B	7/69	2.00	Diagnostic Program Manual	Sigma 5 Integral IOP Channel Test
SO 11 93C	11/69	5.25	Diagnostic Program Manual	Sigma 7 Freestanding Console Examiner (Face)
SO 15 07B	7/69	4.75	Diagnostic Program Manual	Sigma 5/7 Keyboard Display Test 7550/7555
SO 15 09D-1	6/73	5.50	Diagnostic Program Manual	Sigma 5/7 Data Set Controller Test
SO 15 11B	11/69	3.75	Diagnostic Program Manual	Sigma 5/7 Automatic Dialing Equipment (ADE) Test

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90 15 18C-1	1/74	3.75	Diagnostic Program Manual	Sigma 5/7 Graph Plotter
90 15 35C	2/70	3.75	Diagnostic Program Manual	Sigma 5/7 CFE-3 Program
90 15 50C	7/69	5.75	Diagnostic Program Manual	Sigma 5/7 Remote Batch Terminal Test
90 15 52C	11/69	3.25	Diagnostic Program Manual	Sigma 5/7 Low Speed Card Punch Test
90 16 12C	1/73	.50	Diagnostic Program Manual	Sigma 5/7 Removable Disk Storage Test
90 16 16C	1/73	.50	Diagnostic Program Manual	Sigma 5/7 Magnetic Tape Test 9-Channel
90 16 20A-19			Keyboard Printer (ASR/USR)	(ASR/KSR) Test
90 16 44D	4/72	.50	Diagnostic Program Manual	Sigma 5/7 Graphic Display Test
90 16 63B	4/70	.25	Diagnostic Program Manual	Sigma 5/7 Magnetic Tape Library
90 16 64A	9/69	1.25	Diagnostic Program Manual	Sigma 5/7 Magnetic Tape Library Control Program
90 16 68A	6/70	1.50	Diagnostic Program Manual	Sigma 5/7 Maintenance Subcontroller Self Test
90 16 69A	6/70	7.00	Diagnostic Program Manual	Sigma 5/7 4-Byte MIOP with Maintenance Subcontroller
90 16 70A	8/70	3.50	Diagnostic Program Manual	Sigma 5/7 SIOP with Maintenance Subcontroller
90 16 78C-2	2/74	.50	Diagnostic Program Manual	Sigma 5-9 Comprehensive RAD Test
90 16 82B	10/71	.50	Diagnostic Program Manual	Sigma 5-9 7-Channel Magnetic Tape Test
90 17 54A	6/71	1.00	Diagnostic Program Manual	Sigma 5/9 Comprehensive Line Printer
90 17 55A	1/72	.75	Diagnostic Program Manual	Sigma 2/3 Comprehensive Line Printer Test
90 17 61A	5/72	.75	Diagnostic Program Manual	Sigma 8/9 High Speed RAD IOP Test
90 18 71A	5/72	.75	Diagnostic Program Manual	Sigma Graphic Display Test
90 03 89B	3/71	2.00	Diagnostic Program Manual	Sigma 5/7 System Keyboard Display Diagnostics

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SIGMA 5-9 DIAGNOSTIC MANUALS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>
90 19 98B	11/73	.75		
Diagnostic Program Manual Sigma 5-9 Rotating Memory Test				
90 30 52C	11/73	.50		
Diagnostic Program Manual Sigma 5-9 Removable Disk Storage Test				
90 30 72A	4/74	.50		
Diagnostic Program Manual Sigma 5-9 Line Printer Diagnostic				

PUBLICATIONS - 9 SERIES COMPUTERS

USER PROGRAMMING MANUALS
HARDWARE

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 05 05C	6/65	2.50	92 Integrated Computer Reference Manual
90 03 64B	6/66	6.00	92 Computer Technical Manual
90 08 64B-1	12/7-	C	92 Computer Technical Manual (Revision Package)
90 00 08D	2/70	3.25	910 Computer Reference Manual
90 00 04D	5/66	9.00	910 Computer Theory of Operation
90 00 18G	3/67	4.65	910/925 Programmed Operations Technical Manual
90 00 09D	8/69	3.25	920 Computer Reference Manual
90 00 05D	3/66	8.40	920 Computer Theory of Operation
90 00 93B	9/66	3.75	925 Computer Reference Manual
90 05 33A	6/66	6.75	925 Computer Technical Manual
90 00 20F	3/67	2.25	920/930 Programmed Operators
90 05 61A	12/65	3.50	925/930/9300 Computer Interface Design Manual
90 00 64F	11/69	3.75	930 Computer Reference Manual
90 00 66C	2/66	7.75	930 Computer Technical Manual
90 00 50G	7/69	5.25	9300 Computer Reference Manual
90 05 70A	4/65	5.00	9300 Computer Theory of Operation Manual, Preliminary
90 05 93B	8/65	5.00	9300 Computer Opcode Description, Preliminary
90 03 52B	10/67	C	9300 Reference Data Card
90 03 40C	10/69	3.50	940 Computer Reference Manual

USER PROGRAMMING MANUALS
OPERATING SYSTEMS AND LANGUAGE PROCESSORS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
*****OPERATING SYSTEMS*****					
90 05 66D	12/69	3.00			900 Series/9300 Monarch Reference Manual
90 06 16D	4/68	3.50			900 Series/9300 Monarch Technical Manual
90 11 08E	10/69	2.25			900 Series/9300 Real-Time Monitor Reference Manual
90 11 08E-1	12/70	C			900 Series/9300 Real-Time Monitor Reference Manual (Corrections)
90 11 09A	4/68	5.00			900 Series/9300 Real-Time Monitor Technical Manual
90 05 13C	2/66	2.75			9300 Monitor Reference Manual
90 08 84B	6/67	9.75			9300 Monitor Technical Manual
*****LANGUAGE PROCESSORS*****					
90 10 45B	2/67	3.75			900 Series ADAPT Part Programming Reference Manual
90 05 99C	11/66	1.50			ALGOL 60 Reference Manual
90 10 22C	10/67	2.75			900 Series Business Language Reference Manual
90 10 43A	11/65	1.25			900 Series/9300 Business Language Technical Manual
90 11 39A	1/67	4.75			900 Series CIRC DC User's Manual
90 10 28A	1/67	4.75			93600 Differential Equation Solver (DES-1) Console Technical Manual
90 11 41A	10/65	2.00			DES-1 Differential Equation Solver (Ref. 98 00 65)
90 00 03D	12/70	3.00			900 Series FORTRAN II Reference Manual
90 05 87B	7/66	1.50			900 Series FORTRAN II Operations Manual
90 10 48D	1/65	1.25			900 Series Real-Time FORTRAN II Technical Manual
90 11 07B	10/66	4.50			900 Series/9300 FORTRAN IV Reference Manual
90 10 46B	10/67	2.50			900 Series Manage Reference Manual
90 10 46B-1	4/68	C			900 Series Manage Reference Manual (Revision Package 1)
90 10 46B-2	6/68	C			900 Series Manage Reference Manual (Revision Package 2)

PUBLICATIONS - 9 SERIES COMPUTERS

USER PROGRAMMING MANUALS
OPERATING SYSTEMS AND LANGUAGE PROCESSORS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
90 10 23A	11/65	1.75			300 Series PINT Reference Manual
90 08 18B	4/65	2.00			Project Management System Reference Manual
90 08 18B-1	4/66	C			Addenda to Xerox Project Management System
90 08 22A	11/65	6.50			300 Series/9300 Project Management System Technical Manual
90 15 04A	7/68	3.00			300 Series/9300 Extended Project Management System Reference Manual
90 09 97B	7/66	1.00			300 Series/9300 Sort/Merge Reference Manual
90 10 44A	11/65	1.50			300 Series/9300 Sort/Merge Technical Manual
90 05 08G	3/69	3.50			300 Series/9300 Symbol/Meta-Symbol Reference Manual
90 06 88C	7/67	4.25			300 Series Symbol Technical Manual
90 08 27B	10/67	17.00			300 Series/9300 Meta-Symbol Technical Manual
90 08 27B-1	7/71	C			300 Series/9300 Meta-Symbol Technical Manual Revision Package)
90 08 82A	6/65	1.75			9300 FORTRAN IV Operations Manual
90 08 83A	8/65	5.25			9300 FORTRAN IV Technical Manual
90 06 87B	11/66	5.00			9300 Symbol Technical Manual
90 11 10C	1/69	1.75			940 Time-Sharing System FORTRAN II Reference Manual
90 11 16D	9/69	5.25			940 Time-Sharing System (Version 4.0) Technical Manual
90 11 11C	8/68	1.00			940 BASIC Reference Manual
90 11 14A	6/67	1.50			940 CAL Reference Manual
90 15 79A	1/69	2.50			940 Conversational FORTRAN Reference Manual
90 11 13	11/68	1.00			940 DDT Reference Manual
90 11 42A	3/67	.50			940 FORTRAN II Technical Notes
90 11 12B	1/69	.75			940 QED Reference Manual
90 11 17B	11/68	1.50			940 TAP Reference Manual

PUBLICATIONS - 9 SERIES COMPUTERS

USER PROGRAMMING MANUALS
OPERATING SYSTEMS AND LANGUAGE PROCESSORS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
90 11 18B	4/68	.75			940 Terminal User's Guide
90 11 54A	4/67	.50			RAD/Tape System Generation Technical Notes

HARDWARE DIAGNOSTICS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1 Year Subscr.</u>	<u>2 Year Subscr.</u>	<u>Title and Contents</u>
90 08 78B	5/66	6.00	92		Computer Examiner Diagnostic System Technical Manual
90 00 19C	9/64	4.50			910/920 Examiner Diagnostic System
90 00 19C-1	12/65	C			910/920 Examiner Diagnostic System (Revision Package)
90 06 49A	4/65	6.50			925 Computer Examiner Diagnostic System Technical Manual
90 00 97B	9/65	13.50			930 Examiner Diagnostic Technical Manual (Volume I)
90 06 24B	2/66	25.00			9300 Computer Examiner Diagnostic System Technical Manual
90 00 97A	10/64	10.00			930 Examiner Diagnostic Technical Manual (Volume II)
90 06 34A	7/66	12.50			940 Computer Diagnostic System Technical Manual
90 06 34A-1	2/67	C			940 Computer Diagnostic System (Revision Package)
90 11 69A	5/67	7.75			940 Computer System Exerciser Programming Technical Manual (Ref. 98 02 52)
90 15 91A	2/69	1.50			940 OLDS Diagnostic System Reference Manual

USER PROGRAMMING MANUALS
 HARDWARE

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 05 05C	6/65	2.50	92 Integrated Computer Reference Manual
90 08 64B	6/66	6.00	92 Computer Technical Manual
90 08 64B-1	12/7-	C	92 Computer Technical Manual (Revision Package)
90 00 08D	2/70	3.25	910 Computer Reference Manual
90 00 04D	5/66	9.00	910 Computer Theory of Operation
90 00 18G	3/67	4.65	910/925 Programmed Operations Technical Manual
90 00 09D	8/69	3.25	920 Computer Reference Manual
90 00 05D	3/66	8.40	920 Computer Theory of Operation
90 00 99B	9/66	3.75	925 Computer Reference Manual
90 06 33A	6/66	6.75	925 Computer Technical Manual
90 00 20F	3/67	2.25	920/930 Programmed Operators
90 05 61A	12/65	3.50	925/930/9300 Computer Interface Design Manual
90 00 64F	11/69	3.75	930 Computer Reference Manual
90 00 66C	2/66	7.75	930 Computer Technical Manual
90 00 50G	7/69	5.25	9300 Computer Reference Manual
90 05 70A	4/65	5.00	9300 Computer Theory of Operation Manual, Preliminary
90 05 93B	8/65	5.00	9300 Computer Opcode Description, Preliminary
90 06 52B	10/67	C	9300 Reference Data Card
90 06 40C	10/69	3.50	940 Computer Reference Manual

USER PROGRAMMING MANUALS
 OPERATING SYSTEMS AND LANGUAGE PROCESSORS

PUBLICATION REVISION
NUMBER DATE PRICE TITLE

*****OPERATING SYSTEMS*****

90 05 66D	12/69	3.00	900 Series/9300 Monarch Reference Manual
90 06 16D	4/68	3.50	900 Series/9300 Monarch Technical Manual
90 11 08E	10/69	2.25	900 Series/9300 Real-Time Monitor Reference Manual
90 11 08E-1	12/70	C	900 Series/9300 Real-Time Monitor Reference Manual (Corrections)
90 11 09A	4/68	5.00	900 Series/9300 Real-Time Monitor Technical Manual
90 05 13C	2/66	2.75	9300 Monitor Reference Manual
90 08 84B	6/67	9.75	9300 Monitor Technical Manual

*****LANGUAGE PROCESSORS*****

90 10 45B	2/67	3.75	900 Series ADAPT Part Programming Reference Manual
90 06 99C	11/66	1.50	ALGOL 60 Reference Manual
90 10 22C	10/67	2.75	900 Series Business Language Reference Manual
90 10 43A	11/65	1.25	900 Series/9300 Business Language Technical Manual
90 11 39A	1/67	4.75	900 Series CIRC DC User's Manual
90 10 28A	1/67	4.75	93600 Differential Equation Solver (DES-1) Console Technical Manual
90 11 41A	10/65	2.00	DES-1 Differential Equation Solver (Ref. 98 00 65)
90 00 03D	12/70	3.00	900 Series FORTRAN II Reference Manual
90 05 87B	7/66	1.50	900 Series FORTRAN II Operations Manual
90 10 48D	1/66	1.25	900 Series Real-Time FORTRAN II Technical Manual
90 11 07B	10/66	4.50	900 Series/9300 FORTRAN IV Reference Manual
90 10 46B	10/67	2.50	900 Series Manage Reference Manual
90 10 46B-1	4/68	C	900 Series Manage Reference Manual (Revision Package 1)
90 10 46B-2	6/68	C	900 Series Manage Reference Manual (Revision Package 2)

USER PROGRAMMING MANUALS
 OPERATING SYSTEMS AND LANGUAGE PROCESSORS

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 10 23A	11/65	1.75	900 Series PINT Reference Manual
90 08 18B	4/65	2.00	Project Management System Reference Manual
90 08 18B-1	4/66	C	Addenda to Xerox Project Management System
90 08 22A	11/65	6.50	900 Series/9300 Project Management System Technical Manual
90 15 04A	7/68	3.00	900 Series/9300 Extended Project Management System Reference Manual
90 09 97B	7/66	1.00	900 Series/9300 Sort/Merge Reference Manual
90 10 44A	11/65	1.50	900 Series/9300 Sort/Merge Technical Manual
90 05 06G	3/69	3.50	900 Series/9300 Symbol/Meta-Symbol Reference Manual
90 06 88C	7/67	4.25	900 Series Symbol Technical Manual
90 08 27B	10/67	17.00	900 Series/9300 Meta-Symbol Technical Manual
90 08 27B-1	7/71	C	900 Series/9300 Meta-Symbol Technical Manual Revision Package)
90 08 82A	6/65	1.75	9300 FORTRAN IV Operations Manual
90 08 83A	8/65	5.25	9300 FORTRAN IV Technical Manual
90 06 87B	11/66	5.00	9300 Symbol Technical Manual
90 11 10C	1/69	1.75	940 Time-Sharing System FORTRAN II Reference Manual
90 11 16D	9/69	5.25	940 Time-Sharing System (Version 4.0) Technical Manual
90 11 11C	8/68	1.00	940 BASIC Reference Manual
90 11 14A	6/67	1.50	940 CAL Reference Manual
90 15 79A	1/69	2.50	940 Conversational FORTRAN Reference Manual
90 11 13	11/68	1.00	940 DDT Reference Manual
90 11 42A	3.67	.50	940 FORTRAN II Technical Notes
90 11 12B	1/69	.75	940 QED Reference Manual
90 11 17B	11/68	1.50	940 TAP Reference Manual
90 11 18B	4/68	.75	940 Terminal User's Guide

USER PROGRAMMING MANUALS
OPERATING SYSTEMS AND LANGUAGE PROCESSORS

<u>PUBLICATION</u> <u>NUMBER</u>	<u>REVISION</u> <u>DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 11 54A	4/67	.50	RAD/Tape System Generation Technical Notes

HARDWARE DIAGNOSTICS

<u>PUBLICATION NUMBER</u>	<u>REVISION DATE</u>	<u>PRICE</u>	<u>TITLE</u>
90 08 78B	5/66	6.00	92 Computer Examiner Diagnostic System Technical Manual
90 00 19C	9/64	4.50	910/920 Examiner Diagnostic System
90 00 19C-1	12/65	C	910/920 Examiner Diagnostic System (Revision Package)
90 06 49A	4/65	6.50	925 Computer Examiner Diagnostic System Technical Manual
90 00 97B	9/65	13.50	930 Examiner Diagnostic Technical Manual (Volume I)
90 06 24B	2/66	25.00	9300 Computer Examiner Diagnostic System Technical Manual
90 00 97A	10/64	10.00	930 Examiner Diagnostic Technical Manual (Volume II)
90 06 34A	7/66	12.50	940 Computer Diagnostic System Technical Manual
90 06 34A-1	2/67	C	940 Computer Diagnostic System (Revision Package)
90 11 69A	5/67	7.75	940 Computer System Exerciser Programming Technical Manual (Ref. 98 02 52)
90 15 91A	2/69	1.50	940 OLDS Diagnostic System Reference Manual

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REF: SD6-75-5129

XEROX

June 30, 1975

TO: PAL MANUAL HOLDERS

The attached is update 75.03 to the PAL Manual. It lists programs and publications inserted, deleted, or updated during the months of February through May, 1975.

Teresa Wai

Teresa Wai
Software and Publications Distribution

bk

attachment

PAL CHANGES
For period of February 1, 1975, through May, 1975

I. PROGRAMS INSERTED

Catalog No.	Class	Title	Elements Released
706490	A00 B3	Sigma 2/3, Xerox 530 DA42 Diagnostic	-11, -44, -84
706502	A00 B1	Xerox 530 Hard Core Cartridge Disk Test	-11, -83
706503	A00 B2	Sigma 6, 9, Xerox 560 Interactive Graphics System for CP-V	-11, -76 Restricted
706505	A00 B2	Sigma 9, Xerox 550/560 Interactive Graphics System for CP-R	-11, -44, -64, -76 Restricted
706506	A00 B3	Sigma 2/3, Xerox 530 SCU SC411 Comm Handl	-11, -44, -83
706507	A00 B3	Sigma 5-9 Parameter Generation Routine	-11, -26/36/86
706514	A00 B3	Xerox 560 Info	-11, -26/36
706516	A00 B3	Sigma 5-9, Xerox 550/560 Character ROM Matrix for ISD 10/20	-11, -34
706517	A00 B3	Sigma 5-9, Xerox 550/560 Character ROM Matrix Generator	-11, -24, -34
720019	A00 B1	Xerox 530 NS Magnetic Tape Diagnostic	-11, -84
720025	A00 B1	Xerox 530 Rapid Access Disk (RAD3)	-11, -34
720026	A00 B1	Xerox 530 Cartridge Disk Device	-11, -84
720027	A00 B1	Xerox 530 Magnetic Tape Library	-11, -46, -56, -86
720028	A00 B1	Xerox 530 16-Bit EDIT (DPS)	-11
720029	A00 B1	Xerox 530 Optional Diagnostic (OPTL)	-11, -84

Catalog No.	Class	Title	Elements Released
720030	A00 B1	Xerox 530 Memory Diagnostic (MEMO)	-11, -84
720031	A00 B1	Xerox 530 Interrupt Diagnostic (INTR)	-11, -84
720032	A00 B1	Xerox 530 Instruction Diagnostic (INSTR)	-11, -84
720033	A00 B1	Xerox 530 Manual Control Diagnostic (MANL)	-11, -84
720034	A00 B1	Xerox 530 IOP Diagnostic (IOPS)	-11, -84
730026	A00 B1	Xerox 550/560 RAD 6	-11, -84
730027	A00 B1	Xerox 550/560 Cartridge Disk Diagnostic	-11, -84
880612	A00 B3	Sigma 2/3, Xerox 530 SCU Analog Exerciser	-11, -44, 84
880630	A00 B3	Sigma 2/3 Xerox 530 SCU Utility Program	-11, -44, -83, -84
880633	A00 B3	Xerox SCU Memory Unit Test (SUPERCRUNCH)	-11/51, -44
890917	A00 B3	Sigma 5/7/9 560 Greeter	-11, -36/76/86
890979	A00 B3	Sigma 7 Simple Debug Routine	-11, -34
890982	A00 B3	Sigma 5 HP RT Exerciser Cross Assembler	-11, -36/76
890984	A00 B3	Sigma 9 TUF - A Tape Unfouler	-11, -44
890985	A00 B3	Sigma 5/9 SLR1 Analyzer	-11, -34
890986	A00 B3	Sigma 5/9 Please	-02, -11, -36
890987	A00 B3	Sigma 5/9 Patches	-11, -34
890988	A00 B3	Sigma 3 Trace/Snap Callable by FORT	-11, -36/76

II. NEW VERSIONS OF EXISTING PROGRAMS

Catalog No.	Class		Title		Elements Released
704050	D00	B1	Sigma 5/9, Xerox 550/560	Xerox 32-bit Plot	-61, -84
704211	C01	B1	Sigma 5-9, Xerox 550/560	7930/31/35 SIU	-44, -61, -84
705368	G00	B1	Sigma 2/3 Xerox 530	Real-Time Batch Monitor	-11, -91, -86/26/46/56
705392	B01	B1	Sigma 9, Xerox 550/560	7923/28/29 SIU Diagnostic Program	-44, -61, -84
705732	C04	B1	Sigma 5-9	Real-Time Batch Monitor	-11, -46, -84/74, -86/76
705886	A01	B1	Sigma 5-9, Xerox 550/560	CC32 Diagnostic Program	-44, -61, -84
705888	E04	B1	Sigma 5-9 Xerox 560	COBOL, Part of SST (880832), Orderable through Field Office	-66 Restricted
706102	F00	B1	Sigma 6-9 Xerox 560	Xerox Sort/Merge, Part of SST (880832), Orderable through Field Office	-11/71, -26/46/76
706173	A02	B1	Sigma 5-9 Xerox 550/560	7902 EDSC Diagnostic	-24, -44, -61
706230	A03	B1	Sigma 5-9 Xerox 550/560	DMS-12 Diagnostic Program	-44, -61, -84
706436	C00	B3	Sigma 6/7/9, Xerox 560	CCS	-11, -36/46/86, -36/46
706466	B00	B1	Sigma 6/7/9, Xerox 560	IDP	-11/61/71, -91, -26/46/76
706469	A01	B1	Sigma 5-9 Xerox 550/560	7907 Diagnostic Program	-44, -61, -84

Catalog No.	Class	Title	Elements Released
706491	A01 B1	Sigma 3, Xerox 530	Xerox Satellite Processor -11, -24, -26
706500	A03 B1	Sigma 3, Xerox 530	Xerox 530 ANS COBOL, Part of SST (880816), Orderable through Field Office -26/76, -61
706514	A01 B3	Sigma 5/6/9, Xerox 560	Info -11, -26/36
707000	C01 B1	Sigma 6/7/9, Xerox 560	CP-V -61, -91, -26/46/66, -56, -59
720008	B02 B1	Xerox 530	DPS Library Loader -61, -84
720009	C00 B1	Xerox 530	Mag Tape Library Replaced by 720027
720014	A03 B1	Xerox 530	System Exerciser -61, -84
720015	A02 B1	Xerox 530	DPS Lag -61, -84
720016	A02 B1	Xerox 530	DPS Monitor -61, -84
720019	A01 B1	Xerox 530	NS Mag Tape Diagnostic -61, -84
720020	A01 B1	Xerox 530	NS Line Printer Diagnostic -11, -84
720026	A01 B1	Xerox 530	Cartridge Disk Device -61, -84
730000	A01 B1	Xerox 550/560	AUTO -61, -84
730001	A01 B1	Xerox 550/560	SUFx -61, -84
730002	A01 B1	Xerox 550/560	FADS -61, -84
730004	A01 B1	Xerox 550/560	Map -61, -84
730005	A01 B1	Xerox 550/560	MIOP -61, -84
730006	A01 B1	Xerox 560	Interrupt -61, -84

Catalog No.	Class	Title	Elements Released
730009	A01 B1	Xerox 550/560	SUPI -61, -84
730010	A01 B1	Xerox 550/560	System Exerciser -61, -84
730012	A01 B1	Xerox 550/560	DPS Monitor -61, -84
730013	A01 B1	Xerox 550/560	Load and Go -61, -84
730016	A01 B1	Xerox 550/560	Medium Speed Mag Tape -11, -84
730017	A01 B1	Xerox 550/560	NS Line Printer Diagnostic -11, -84
730021	A01 B1	Xerox 550/560	Trap -61, -84
730023	A01 B1	Xerox 550/560	Byte -61, -84
730024	A01 B1	Xerox 550/560	DECM -61, -84
730025	A01 B1	Xerox 560	Mag Tape Library -46, -56, -61, -86
730029	A01 B1	Xerox 550/560	System Control Console -61, -84
880550	C00 B1	Xerox 1200	Diagnostic Software System -11, -86/16, -56
880608	B00 B3	Xerox SCU	SCU Vector General Interface -11, -44, -84
890812	B00 B3	Sigma 5-9, Xerox 550/560	CP-R/RBM-32 -11, -26/36/46
890958	A01 B3	Sigma 5/9	System RBM -11, -34
890916	B00 B3	Sigma 6/7/9	FRAN -11, -26/36
890923	B00 B3	Sigma 5-9	XPL/S Compiler -11, -26/36/46
890934	B00 B3	Sigma 5/9	XPLSREF -11, -34
890935	B00 B3	Sigma 5-9	XPLSFMT -11, -34
890936	B00 B3	Sigma 5-9	Merge -11, -34
890959	B00 B3	Sigma 5/9	System XPL/s -11, -44

III. PROGRAMS DELETED

Catalog No.	Class	Title		Elements Released
705862	F00	B3	Sigma 5-9 Revised Mag Tape Copy	-11, -24, -44
706477	A00	B1	Sigma 2/3, Xerox 530 Exerciser Control Program	-11, -84
706478	A00	B1	Sigma 2/3, Xerox 530 Card Reader/Card Punch Exerciser	-11, -74, -84
706479	A00	B1	Sigma 2/3, Xerox 530 Line Printer Exerciser	-11, -84
706480	A00	B1	Sigma 2/3, Xerox 530 Mag Tape Exerciser	-11, -84
706482	A00	B1	Sigma 2/3, Xerox 530 Control Program for ELLA	-11, -84
706483	A00	B1	Sigma 2/3, Xerox 530 Chronological List Mod for ELLA	-11, -84
706484	A01	B1	Sigma 2/3, Xerox 530 Bndry Routine for ELLA	-11, -61, -84
706485	A00	B1	Sigma 2/3, Xerox 530 Grphcl Disp Mod for ELLA	-11, -84
706486	A00	B1	Sigma 2/3, Xerox 530 Summary Mod for ELLA	-11, -84
706487	A00	B1	Sigma 2/3, Xerox 530 Srtd List Mod for ELLA	-11, -84

PROGRAMMING PUBLICATION CHANGESNEW MANUALS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 31 16A	4/75	2.00	2.40	4.00	Xerox Cartridge Disk System/Reference Manual (Models 3211/3242/3243) Describes external programming and operating characteristics of cartridge disk system and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations.
90 31 17A	3/75	1.50	1.80	3.00	Xerox RAD Storage System/Reference Manual (Models 3211/3214) Describes external programming and operating characteristics of the RAD and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations.
90 31 28A	1/75	1.50	1.80	3.00	Xerox Console Typewriter/Reference Manual (Models 4592/4692) Describes external programming and operating characteristics of console typewriter and is intended for use by assembly and machine language programmers. Contents: General description, functional description, program interface, operations, translation tables.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 31 29A	1/75	1.25	1.50	2.50	<p>Xerox Keyboard Printer (KSR)/Reference Manual (Models 4591/4691)</p> <p>Describes external programming and operating characteristics of keyboard printer and is intended for use by assembly and machine language programmers.</p> <p>Contents: General description, functional description, program interface, operations, translation tables.</p>
90 30 92A	2/75	1.75	2.10	3.50	<p>Xerox Magnetic Tape System/Reference Manual (Models 3340/3345/3347/1047)</p> <p>Describes external programming characteristics of magnetic tape unit and is intended for use by assembly and machine language programmers.</p> <p>Contents: General description, functional description, program interface, operations.</p>

REVISED MANUALS

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 09 07F-2	5/75	C	C	C	Xerox Control Program-Five (CP-V)/TS Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.
90 09 56F	4/75	6.50	9.10	14.30	Xerox Extended FORTRAN IV/LN Reference Manual (Xerox 550/560 and Sigma 5-9) Software Version: F00 This edition documents the F00 version of Extended FORTRAN IV.
90 10 37I	2/75	6.50	10.40	15.60	Xerox Real-Time Batch Monitor (RBM)/RT, BP Reference Manual (Xerox 530 and Sigma 2/3) Software Version: G00 This edition documents the G00 version of RBM.
90 11 43E	3/75	5.00	7.00	11.00	Xerox Extended FORTRAN IV/OPS Reference Manual (Xerox 550/560 and Sigma 5-9) Software Version: F00 This edition documents the F00 version of Extended FORTRAN IV.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 11 53F	2/75	8.75	14.00	21.00	Xerox Real-Time Batch Monitor (RBM)/System Technical Manual (Xerox 530 and Sigma 2/3) Software Version: G00 This edition documents the G00 version of RBM.
90 15 55G	11/74	1.75	2.80	4.20	Xerox RBM OPS Reference Manual (Xerox 530 and Sigma 2/3) Software Version: G00 This edition documents the G00 version of the software.
90 15 81F	2/75	8.50	13.60	20.40	Xerox Real-Time Batch Monitor (RBM)/RT, BP Reference Manual (Sigma 5-9) Software Version: C04 This edition documents the C04 version of RBM.
90 16 47F	2/75	1.50	2.40	3.60	Xerox Real-Time Batch Monitor (RBM)/OPS Reference Manual (Sigma 5-9) Software Version: C04 This edition documents the C04 version of RBM.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 16 53C	2/75	4.25	6.80	10.20	Xerox Real-Time Batch Monitor (RBM)/RT, BP User's Guide (Sigma 5-9) Software Version: C04 This edition documents the C04 version of RBM.
90 16 74G-1	4/75	C	C	C	Xerox Control Program-Five (CP-V)/SM Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C00 This revision package documents the C01 version of CP-V.
90 16 75G-1	4/75	C	C	C	Xerox Control Program-Five (CP-V)/OPS Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.
90 16 92D-3	5/75	C	C	C	Xerox Control Program-Five (CP-V)/TS User's Guide (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 16 97B	12/74	4.00	5.60	8.80	Xerox CIRC-DC Reference Manual (Sigma 5-9) Software Version: B00 This edition merely incorporates the 90 16 97A-1 revision package into the manual. There are no technical changes.
90 17 49A-3	11/74	C	C	C	Xerox Sigma 8 Computer/Reference Manual This revision package contains a number of corrections to the computer reference manual.
90 17 64F-1	5/75	C	C	C	Xerox Control Program-Five (CP-V)/BP Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.
90 18 03C-2	4/75	C	C	C	Xerox CP-V Overlay Loader/Technical Manual (Sigma 5-9) Software Version: CP-V (C01) BPM (H01) This revision package documents the C01 version of the loader for CP-V and the H01 version of the loader for BPM.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 18 41B-1	2/75	C	C	C	Xerox Report Program Generator II (RPGII)/LN and OPS Reference Manual (Xerox 530 and Sigma 3) Software Version: C03 This revision package documents the C03 version of RPGII.
90 18 51B	11/74	3.25	4.55	7.15	Xerox TEXT LN, OPS Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: A02 This edition documents the A02 version of TEXT.
90 19 95C-1	5/75	C	C	C	Xerox Control Program-Five (CP-V)/DB Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of the software.
90 30 26B-2	4/75	C	C	C	Xerox Control Program-Five (CP-V)/RP Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 30 36C	1/75	2.00	3.20	4.80	Xerox Real-Time Batch Monitor (RBM)/SM Reference Manual (Xerox 530 and Sigma 2/3) Software Version: G00 This edition documents the G00 version of RBM.
90 30 66B	4/75	2.25	3.15	4.95	Xerox Interactive Database Processor/LN, OPS Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: B00 This edition documents the B00 version of the IDP processor.
90 30 78B	1/75	3.75	6.00	9.00	Xerox Satellite Processor/OPS Reference Manual (Xerox 530 and Sigma 3) Software Version: A01 This edition documents the A01 version of the Satellite Processor.
90 30 80B	12/74	2.25	3.60	5.40	Xerox Control Program-Five (CP-V)/ Common Index (Sigma 6/7/9) Software Version: C00 This edition indexes the C00 CP-V manuals.

<u>Publication Number</u>	<u>Revision Date</u>	<u>Price</u>	<u>1-Year Subscr.</u>	<u>2-Year Subscr.</u>	<u>Title</u>
90 30 87B	11/74	5.50	8.80	13.20	Xerox CP-R RT User's Guide (Xerox 550 and Sigma 9) Software Version: C00 This edition documents the C00 edition of CP-R.
90 30 88B	2/75	14.00	22.40	33.60	Xerox Control Program for Real-Time (CP-R)/System Technical Manual (Sigma 9) Software Version: C00 This edition documents the C00 version of CP-R.
90 31 12A-1	4/75	C	C	C	Xerox Control Program-Five (CP-V)/TP Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C01 This revision package documents the C01 version of CP-V.
90 31 13A-1	5/75	C	C	C	Xerox Control Program-Five (CP-V)/SP Reference Manual (Xerox 560 and Sigma 6/7/9) Software Version: C00 This revision package documents the C01 version of CP-V.

Inter-Office Memorandum

To Distribution

Date May 7, 1975

From Lynn Wagner

Location A1-03/Ext. 1492

Subject New Status Code

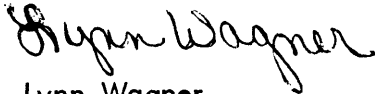
Organization Technical Support
75-4384

XEROX

When people in the field display a SIDR for status there is no way to tell if it's waiting for documentation. So we have created a new status class to mean Pending Documentation. This will allow a disposition to state that the documentation was requested. If after 45 days no documentation is received, the SIDR will be closed for insufficient information.

Therefore, there will be two events for which a SIDR may be pending. It may be Pending a release or Pending Documentation. When displaying the SIDR the revision level field will reflect a version if it is pending a release or it will reflect DOC if it is pending documentation. Any further information will be located in the disposition commentary of the SIDR.

If you have any questions, feel free to contact me at 679-4511 ext. 1492.



Lynn Wagner

/br

Xerox Corporation
701 South Aviation Boulevard
El Segundo, California 90245
213 679-4511

XEROX

June 6, 1975

REF: SD6-75-5113

TO: ALL PAL MANUAL HOLDERS

SUBJECT: New Direct Distribution System (DDS) Procedure

As you know, we provide a Direct Distribution System (DDS) whereby you automatically receive major items of software that you are registered for and their subsequent revisions as soon as they are available. However, many of you have advised us that, even though we send you a revision to a software product, it may go unused.

Since this is wasteful of both time and money for both of us, we are altering DDS procedures. Rather than automatically sending a new version or revision, we will notify all of those registered for that particular product of its pending availability. The notification, which is usually a Business Reply Letter, will give the new release's contents and ordering instructions for customers who wish to install it. All registered field offices, however, will still receive the appropriate elements automatically. As soon as these shipments are completed, we will begin shipping to the customer sites that have sent us their order request. As previously stated, the order request will be a Business Reply Letter -- no Literature/Program Requests should be used.

We are confident this new ordering procedure will be beneficial to all concerned. Please feel free to contact us if you have any problems or questions. Thank you.


W. E. Gelhaar, Manager
Software and Publications Distribution

bk

Xerox Corporation
701 South Aviatricn Boulevard
El Segundo, California 90245
213 679-4511

March 10, 1975

REF: SD6-75-5023

XEROX

TO: PAL MANUAL HOLDERS

Subject: PAL Reprint, 75.02

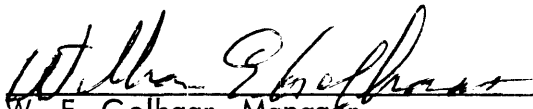
Attached is PAL Manual Reprint 75.02 which is a complete replacement for all sections of your PAL MANUAL.

PAL Manual Update/Reprint Practice:

1. The entire Manual is reprinted periodically and designated by the year and month of the reprint, e.g. Reprint 75.02.
2. Updates to the last reprint are created monthly and are designated by the year and month of the update, e.g. Update 75.02. It lists programs and publications added to or updated in the PAL for the time period indicated in its cover memo. Each memo incorporates all modifications since the last reprint of the PAL. So, as you receive these updates, the old updates can be disposed of since the current one contains the previous modifications as well as the recent ones.

Especially note that a Reprint will incorporate all updates up to and including the one having the same year-month designation as that reprint; e.g., Reprint 75.02 incorporates update 75.02 as well as prior updates.

The PAL is published to give you, the user, various types of information. We would appreciate your telling us about items that are either unclear or not included.



W. E. Gelhaar, Manager
Publications and Software Distribution

bk

attachment