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SYSTEMS ENGINEERING LABORATORIES PROGRAM LIBRARY

PROGRAM DESCRIPTION

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Catalog Number 303015B

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IDENTIFICATION: Executive Equipment Configuration Test (Select)

AUTHOR: Systems Engineering Laboratories

ACCEPTED: March 2, 1968

PURPOSE: To provide an executive control routine for the SEL 810A/B peripheral equipment diagnostic test program. package.

REQUIRED CONFIGURATION: SEL 810A/B Computer and ASR Teletypewriter

PREREQUISITE: 810A/B Computer and ASR Teletypewriter exercisers have run successfully. This program is not relocatable.

GENERAL: This executive routine is oriented toward the development of an efficient diagnostic package for computer peripheral equipment. The ground rules listed below establish procedures for all future diagnostic programs.

OBJECTIVES:

1. General purpose assignment of peripheral interrupt and BTC locations.
2. Minimum use of sense switch/manual entries.
3. Operation option to run fixed tests/operator generated tests.
4. English language directives for all operator input.
5. Real-time monitor of operator directives.

LOADING PROCEDURE:

1. Load the relocatable 810A Standard Load/Dump Package (catalog number 300001) into memory above location '5777.
2. Enter the starting location of the loader into program counter.

## LOADING PROCEDURE: (CONT'D)

3. Clear the A register.
4. Enter '300 into the B register.
5. Set the read device option.

Sense Switch 0 Set: High Speed Paper Tape  
Sense Switch 0 Reset: ASR Paper Tape

6. Place the SELECT object tape in reader.
7. Depress START twice.

When tape is successfully read in:

8. Place the test program (GRAPE, FDSK, etc.) into the reader.
9. Depress START.

When tape is successfully read in:

10. Depress MASTER CLEAR.
11. Depress STEP
12. Depress START twice

The program will type-out SELECT, a date and the title of Test program. The date should correspond to the date in the listing.

## OPERATING PROCEDURES:

The program may be re-initialized by typing in the directive SELECT or by executing steps 10-12 of the LOADING PROCEDURE.

Program Control Directives

The program is controlled by directives entered by means of the control device, IE. The ASR typewriter, ASR paper tape reader or the high-speed paper tape reader.

## OPERATING PROCEDURES: (Cont'd)

The control device will accept as many as 80 characters or five parameters before an error is indicated. The carriage return indicates the end of a directive. A type-in of a DELETE code causes the directive being typed in to be deleted. A space, comma or period is interpreted as a delimiter and will cause the next parameter to be started.

The directive name must contain the characters underlined. A four character name may be extended for sake of clarity.

Example:

DUMP

ASSIGN

The parameters may be alphabetic, a six digit octal number or four digit decimal number is permitted.

Example:

DUMP '003760 '4000

ASSIGN TYPEWRITER 1

A statement number from 1-9 may be entered before the directive name. This statement will be used by the test program to enable the operator to store a program of operational directives and refer to them by number.

- |                |                             |
|----------------|-----------------------------|
| 1. <u>FDTK</u> | Set Track and Sector        |
| <u>FDWT</u>    | Wrote                       |
| <u>FDRD</u>    | Read                        |
| <u>FDPP</u>    | Check Area Protect Switches |

## OPERATING PROCEDURES: (Cont'd)

2.	<u>FDRD</u>	Read again
	<u>GOTO</u> 1	Start at 1 again
	<u>REPEAT</u> 2, 20	Repeat 2 20 times
	<u>END</u>	

Operational Directives

Operational directives are interpreted by the test program and are stored for execution when the operator types in the directive END causing execution to begin. See the example above.

Immediate Directives

Immediate directives are those which are executed as the directives are typed-in. DUMP and ASSIGN are examples of immediate directives.

The following commands are the immediate commands associated with SELECT. The underlined characters are required.

ASSIGN Parameter 1 Parameter 2 - This parameter is used for assigning device numbers to devices or the control device to the ASR Paper Tape Reader, High Speed Paper Tape or Teletypewriter. The assignments required by the test program are defined in the individual test documentation. Assignment of the control input devices is accomplished by means of the following directives:

ASSIGN CONTROL TYPEWRITER C/R

ASSIGN CONTROL ASR C/R

ASSIGN CONTROL FASTPAPERTAPE C/R

## OPERATING PROCEDURES (Cont'd)

Assignment of a control unit number (if it is different from the standard assignment) may be accomplished by using the following directives:

ASSIGN TYPEWRITER n C/R

ASSIGN FASTPAPERTAPE n C/R

ASSI FAST n C/R

Where n is a decimal or octal number defining the unit Number.

DUMP From To - Dump will cause an octal printout of the locations specified by the "from" and "to" parameters on the assigned typewriter.

Example:

DUMP '00000 '000010 C/R (dump first 8 locations)

DUMP '0 '10 C/R

DUMP 0 8 C/R

MODIFY Location Contents - This Directive will cause the "location" specified to be changed to the "contents".

Example:

MODIFY '100 128 C/R

MODIFY 64 '200 C/R

MODIFY '101 HI C/R

## OPERATING PROCEDURES (Cont'd)

## NOTE

In the case of alphabetic "contents" only the first two characters will be used.

HALT - This Directive will cause a machine halt to be executed. This directive is used if changes to the program are required or if the program needs to be reinitialized. If the HALT directive is not used for reinitialization there is a chance that the task control section of the program will destroy the contents of the task temporary storage so that reloading the program will be necessary. (See executive task control). The initialization procedure is as follows:

1. Depress MASTER CLEAR.
2. Depress STEP.
3. Depress START twice.

SELECT - This directive causes automatic initialization of the SELECT program.

Sense Switch Control

The program maintains a location that contains the conditions of the SENSE SWITCHES. (SS). SS0 is used to cause the transfer of the contents of the switches to this location (S8SS). This allows operator control of when the new setting will be interpreted. The standard assignments of the switches are as follows:

<u>Sense Switch</u>	<u>Meaning</u>
0 = OFF	Do not change S8SS.
0 = ON	Change S8SS to current condition of Sense Switches.
1 = OFF	Type out all error messages.
1 = ON	Do not type out error messages.

## OPERATING PROCEDURES (Cont'd)

2 = OFF	Halt after detection of error.
2 = ON	Inhibit halt on error.
3 = OFF	Loop on test after error.
3 = ON	Go to next test after error.
4 = OFF	Continue to next test after first success.
4 = ON	Loop on current test.

SET Switch - This directive will cause the switch selected to be set in the pseudo sense switch location (STEM). If switch = 0, the contents of the pseudo sense switch location will be transferred into the test program sense switch location (S8SS).

Example:

SET 1 C/R

SET 2 C/R

SET 3 C/R

The above directives will cause the pseudo sense switch locations (STEM) to be changed to '070000 assuming it was '000000 before the directives. However, the test program sense switch location will remain unchanged.

SET 0 C/R

This directive will cause bit zero to be set in the pseudo sense switch location (STEM) = '170000 and the contents to be transferred to the test program sense switch location (S8SS) = '170000.

## SUCCESS INDICATION AND PROCEDURES:

The success indications and procedures of the test programs are covered in the documentation for the test programs.

## ERROR INDICATIONS AND PROCEDURES:

The error indications and procedures of the test programs are covered in the documentations for the test programs. The command processor checks for the following errors and types the message indicated.

<u>Message</u>	<u>Error</u>	<u>Recovery</u>
"TO"	TASK OVERFLOW	Program is reinitialized
"CO"	CHARACTER OVERFLOW (Over 80 received)	Program does not process directive. It will process the next directive available from the assigned control device.
"PO"	PARAMETER-OVERFLOW (Over 5 received)	Same as "CO" above
"CWE"	KEYWORD ERROR (Directive command word not found)	Same as "CO" above

## OPERATION SUMMARY:

Load with A = 0 B = '300.

Initialization

Type in "SELECT" if typewriter control is available. Depress MASTER CLEAR, STEP, and START (twice).



## OPERATION SUMMARY: (Cont'd)

Sense Switch Settings

- 0 = 1 Read sense switches.
- 1 = 1 Inhibit typeout of error message.
- 2 = 1 Inhibit HLT after error is detected.
- 3 = 1 Go to next test after error.
- 4 = 1 Loop on current test (no error).

Directives

SELECT C/R - Reinitialize SELECT executive.

HALT C/R - Stop executive for changes so reinitialization may be done without destroying a part of the program.

ASSIGN CONTROL TYPEWRITER C/R - Type in directives.

ASSIGN CONTROL ASR C/R - Read paper tape on ASR.

ASSIGN CONTROL FAST C/R - Read paper tape on high speed paper tape.

ASSIGN TYPEWRITER Unit C/R - Assign ASR to another unit number.

ASSIGN FAST Unit C/R - Assign high speed paper tape to another unit number.

DUMP from to C/R - Type out specified locations on assigned typewriter (ASR).

MODIFY Location Contents C/R - Change "location" to "contents".

SET Switch C/R - Set the pseudo sense switch specified.

RESET Switch C/R - Reset the pseudo sense switch specified.

SET or RESET 0 C/R - Transfer pseudo sense switch settings to test program sense switch location.

## PROGRAM DESCRIPTION:

### General:

The main executive is a user controlled time sharing executive capable of allowing ten programs to share computer time. After control is transferred to the using program, control is maintained by the using program until it releases control.

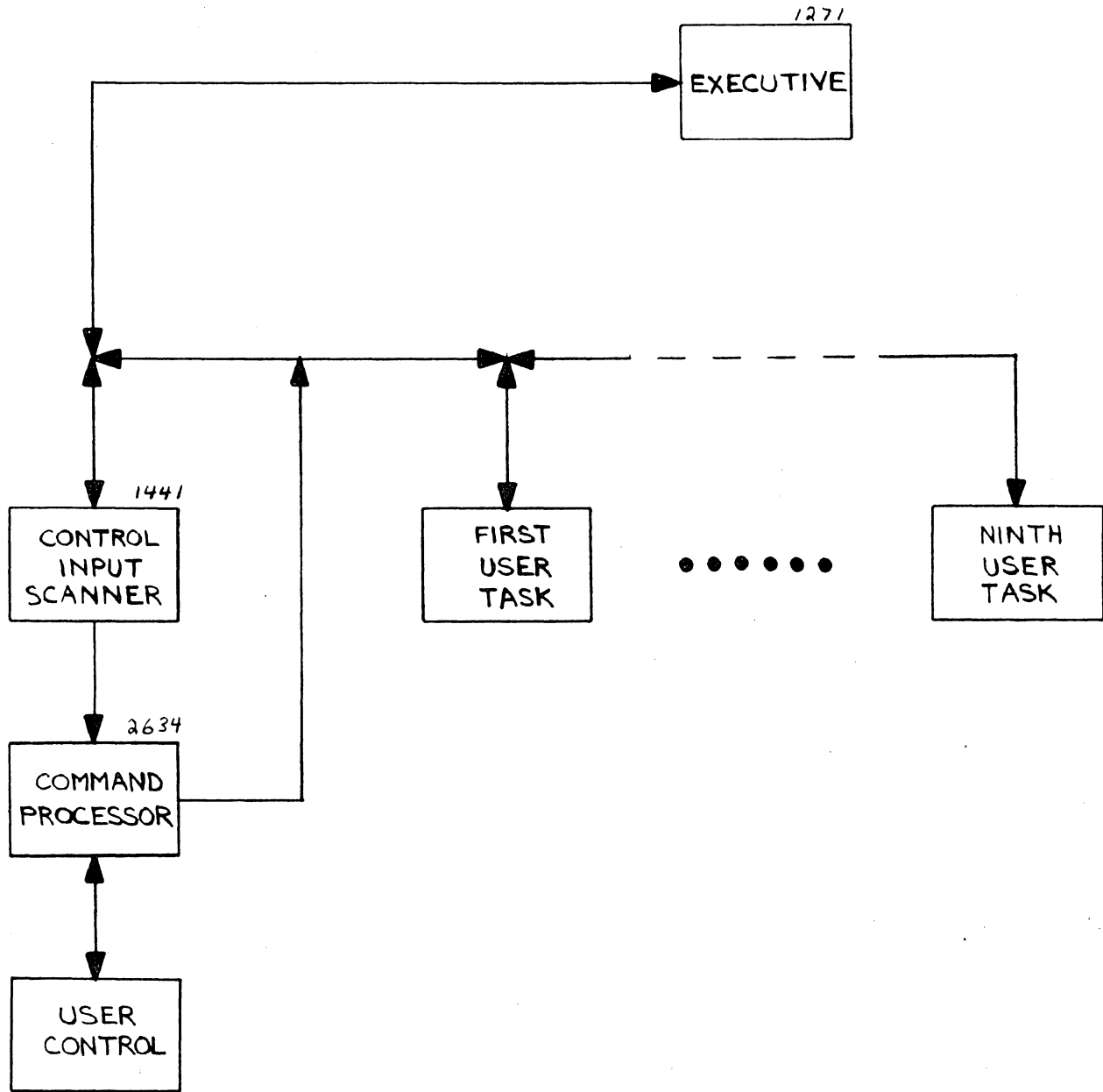
The Control Input Scanner is one of the ten users of the time sharing executive and is in the executive Task Table except when a directive is being processed. Control Input from paper tape or ASR keyboard is preprocessed by the scanner for user control statements.

Figure 1 is a block diagram of the basic system. Note that the User Control section does not transfer control to any of the User Tasks. The executive considers the control section of the program as one of the ten tasks and the User Control must operate under the same restrictions.

### Time Sharing Executive

Figures 2 and 3 are flow charts of the Executive Task Scanner. Each time the routine is entered via symbol E8R or COMR, the program checks the sense switches and if sense switch 0 is set, stores the contents into the users sense switch location (S8SS).

The task pointed to by the Task Pointer is examined to determine whether the task is filled (a minus one in the table indicates that the task is not filled) and the Task Pointer is incremented. If the Task Pointer has passed the end of the list it is reset to the beginning of the list. If the Task has been found to be filled ( $\neq 1$ ) it is assumed that the TASK is an address and this address is saved as the Task in Progress (COM).



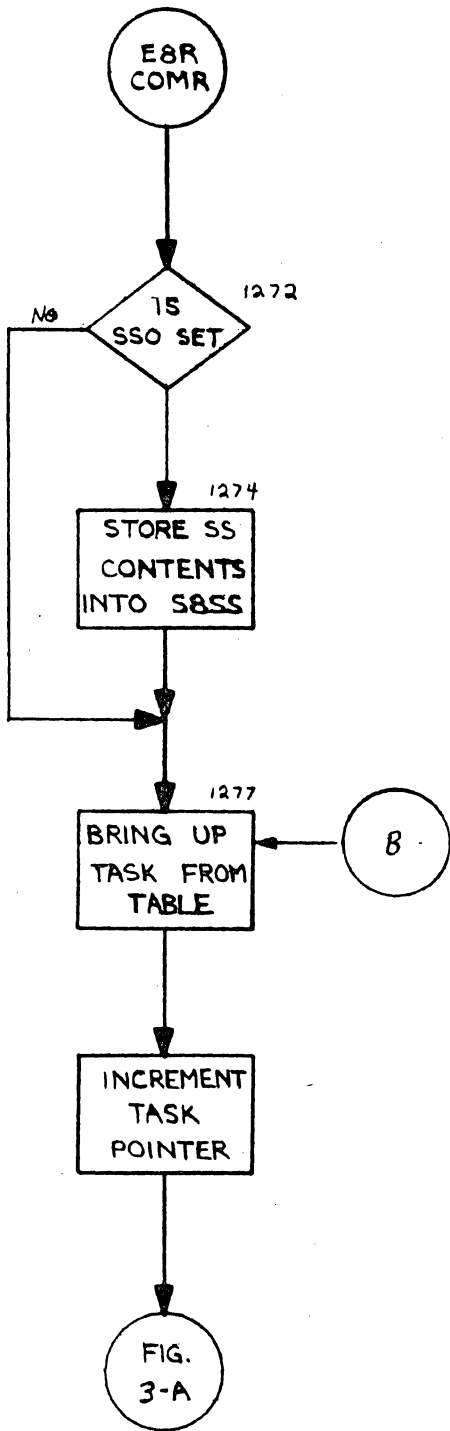


FIGURE 2

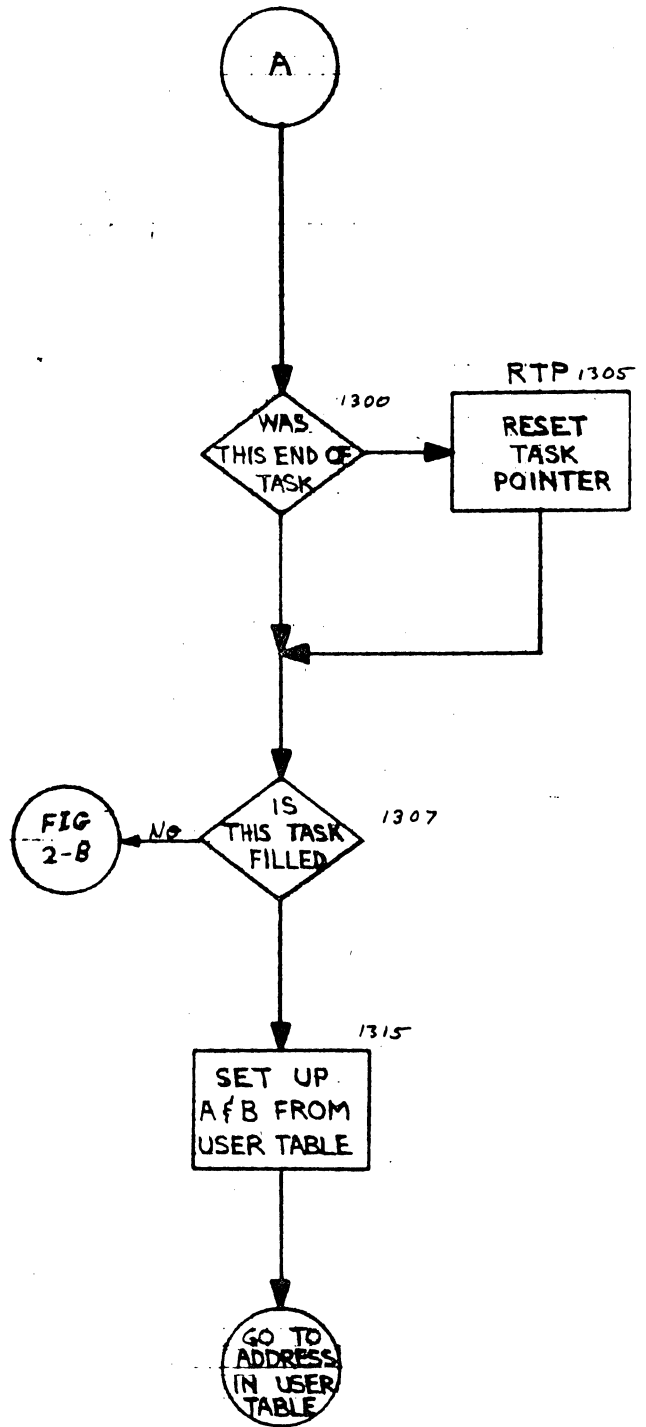


FIGURE 3.

## PROGRAM DESCRIPTION: (Cont'd)

User Task Storage Table

The Task Scanner requires a three word table for each user task. This table is used for storage of A and B Accumulators and program counter while another task is being processed. (See figure 5). The contents of Task in Progress (COM) will point to this table and the scanner loads the A and B Accumulators from the table and branches to the location specified by the third word of the table.

Three auxiliary entrances are provided for maintaining the User Task Storage Table in the executive.

SPB T8M2 - This calling sequence will cause the A and B Accumulators to be saved in the first two locations of the User Task Storage Table, the contents of T8M2-3 to be saved in the third location.

SPB T8M1 - Same as T8M2 except the contents of T8M1-2 are saved in the third location.

SPB T8P1 - Same as T8M2 except the contents of T8P1 are saved in the third location.

Figures 5 and 6 are a sample task to copy paper tape sharing the computer main-frame with other devices by means of the Skip Mode of the input/output commands CEU, AIP and AOP. An example of the use of the entrance T8M2, T8M1, and T8P1 are included in the sample task. Each time one of these entrances is used another task is given time for processing. Note that if none of these returns to the executive are made, no time sharing is possible.

LOC.	OPER.	ADDRESS, INDEX	
1	6	11	25 50 72
*			
		PROGRAM TO COPY PAPER TAPE	1
	REL		2
	NAME	ELL, ELL	3
	NAME	ASGN, ASGN	4
	DATA	' ' COPY ' '	5
	DC	COPY	6
ELL	DC	*	7
	DATA	' ' COPY PAPER TAPE ' '	8
*			9
COPY	LAA	= HSP ADD COPY TASK TO EXECUTIVE TASK TABLE	10
	SPB	T8A	11
*			12
	LAA	= HSP O INITIALIZE USER TASK TABLE	13
	STA	HSP + 2	14
*			15
	BRU	C8R REQUIRED RETURN TO COMMAND PROCESSOR	16
*			17
ASGN	BRU	C8R NO ASSIGNMENT DESIGNATED	18
*			19
*			20

LOC.	OPER.	ADDRESS, INDEX	
1	6	11	25 50 72
*			2,1
*		TASK TO COPY PAPER TAPE	2,2
*		1 FRAME AT A TIME	2,3
*			2,4
*		THREE WORD USER TASK STORAGE TABLE	2,5
*			2,6
HSP	***	**	SAVE A IN THIS LOCATION 2,7
	***	**	SAVE B IN THIS LOCATION 2,8
	***	**	SAVE PROGRAM COUNTER IN THIS LOCATION 2,9
*			3,0
HSP O	CEU	2	CEU TO START PUNCH MOTOR AND READ 3,1
	DATA	15000	3,2
	SPB	T8M2	RETURN TO EXECUTIVE IF IT DOESN'T SKIP 3,3
*			EXECUTIVE WILL SAVE A AND B IN HSP AND HSP+1 3,4
*			IT WILL SUBTRACT 3 FROM CONTENTS OF T8M2 3,5
*			AND SAVE IN HSP+2. IT WILL SEARCH TASK TABLE 3,6
*			AND PROCESS ALL OTHER TASKS AND THEN RETURN 3,7
*			THIS TASK AT HSP O 3,8
*			3,9
			4,0

LOC.	OPER.	ADDRESS, INDEX	11	25	50	72
*						4.1
HSP 1	AIP	2		READ 1 CHARACTER		4.2
	SPB	T8M1		RETURN TO EXECUTIVE IF IT DOESNT SKIP...		4.3
*				SAME AS T8M2 EXCEPT IT WILL SUBTRACT 2 FROM		4.4
*				CONTENTS OF T8M1 CAUSE A RETURN TO HSP1		4.5
*						4.6
	LSL	8		SHIFT IT OVER		4.7
	AOP	2		PUNCH IT OUT		4.8
	SPB	T8M1		SEE CEU AND AOP COMMENTS		4.9
*						5.0
	SPB	T8P1		RETURN TO EXECUTIVE		5.1
*				EXECUTIVE WILL RETURN TO HSP2 ON NEXT PASS		5.2
*				THROUGH TASK TABLE		5.3
*						5.4
*				USER MAINTENANCE OF TABLE HSP		5.5
HSP 2	STA	HSP		SAVE A		5.6
	STB	HSP+1		SAVE B		5.7
	LAA	=HSP1		SET PROGRAM COUNTER ON NEXT PASS TO		5.8
	STA	HSP+2		START AT HSP1		5.9
	BRU	E8R		RETURN TO EXECUTIVE		6.0



## PROGRAM DESCRIPTION: (Cont'd)

Executive Task Control

Three subroutines are provided to service the Executive Task Table.

LAA = address of User Task Storage Table  
SPB T8A

This calling sequence will cause the task to be added to the list in a position not containing a task. There is no test to determine whether this task is already included, therefore, it is possible to include a task more than once in the table. An excess of tasks entered into the table will cause a typout of "TO" (task overflow) and the task table will be cleared and the program will be re-initialized.

LAA = address of User Task Storage Table  
SPB T8D

This calling sequence will cause all tasks of the address contained in the A accumulator to be deleted from the Task Table.

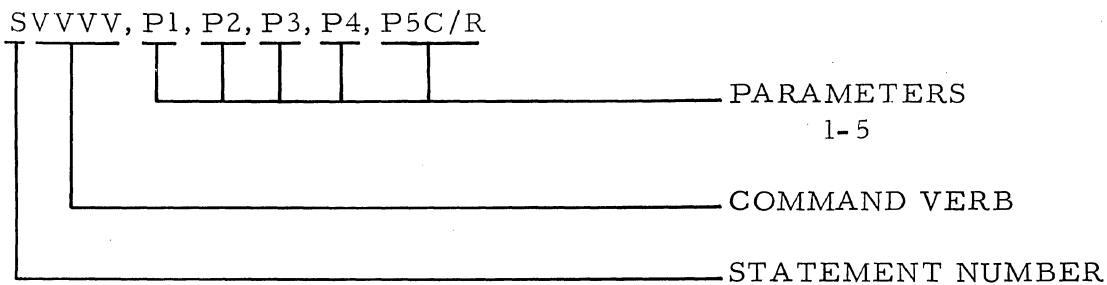
SPB T8C

This calling sequence will cause all tasks to be cleared from the task table except the Control Input Scanner.

Control Input Scanner

The Control Input Scanner (CIS) and Command Processor can be considered as permanent resident of the Executive Task Table. Provisions are made so that the CIS shares the computer with other tasks while awaiting data from the Control Input Device (CID).

## PROGRAM DESCRIPTION: (Cont'd)

Input Format

Statement Number - If the first character is between 1 and 9 it will be interpreted as a statement number and will be stored in the symbolic location S8SN for use by user control subroutine.

Command Verb - The first four alphabetic characters are interpreted as the command verb as used to determine which command processing subroutine is used. (See Command Processor)

Parameters - After the first delimiter (space, comma or period) the parameters are processed. The parameters may be a six digit octal number, a four digit decimal number, or an alphabetic entry. Associated with each parameter is a pointer. The symbolic names for the pointers are C81 - parameter 1, C82 - parameter two C83 - parameter 3, C84 - parameter 4 and C85 - parameter 5.

Control Input Buffer (C8IB) - The program receives data from the control device and packs the characters in the buffer one character per word. Each time a delimiter is typed in the associated parameter pointer (C8(1-5)) is set to the start of the new parameter. When the C/R is typed in the program packs the alphabetic data two characters per word and converts the octal and decimal parameters. The "before" and "after" C/R configurations of the control input buffer are shown as follows:

## PROGRAM DESCRIPTION: (Cont'd)

Directive: DUMPE, 32, '100

LOCATION	BEFORE C/R	AFTER C/R
41	'000304	'142325
42	'000325	'146720
43	'000315	'142400
44	'000320	'000320
45	'000254	'000254
46 = C81	'000263	'000040
47	'000262	'000262
50	'000254	'000254
51 = C82	'000247	'000100
52	'000261	'000261
53	'000260	'000260
54	'000260	'000260
55 = C83	'000215	'000215

Figures 7, 8 and 9 are flow charts showing the normal flow of the Control Input Scanner.

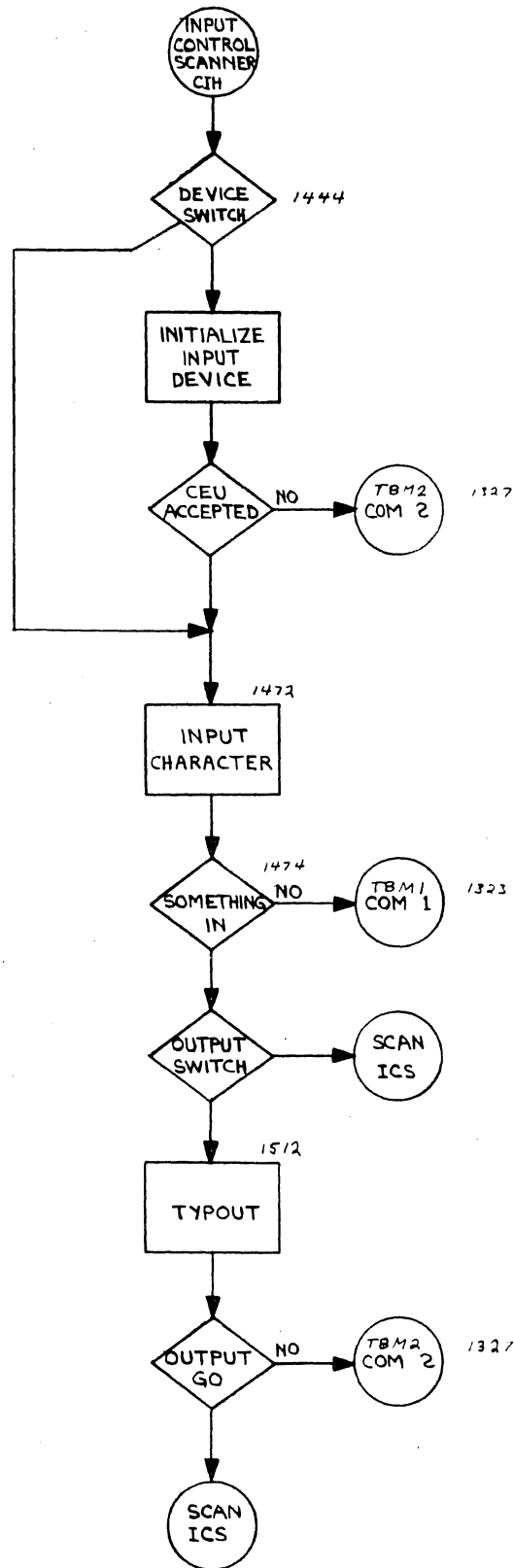


FIGURE 7

INPUT CONTROL SCANNER 1

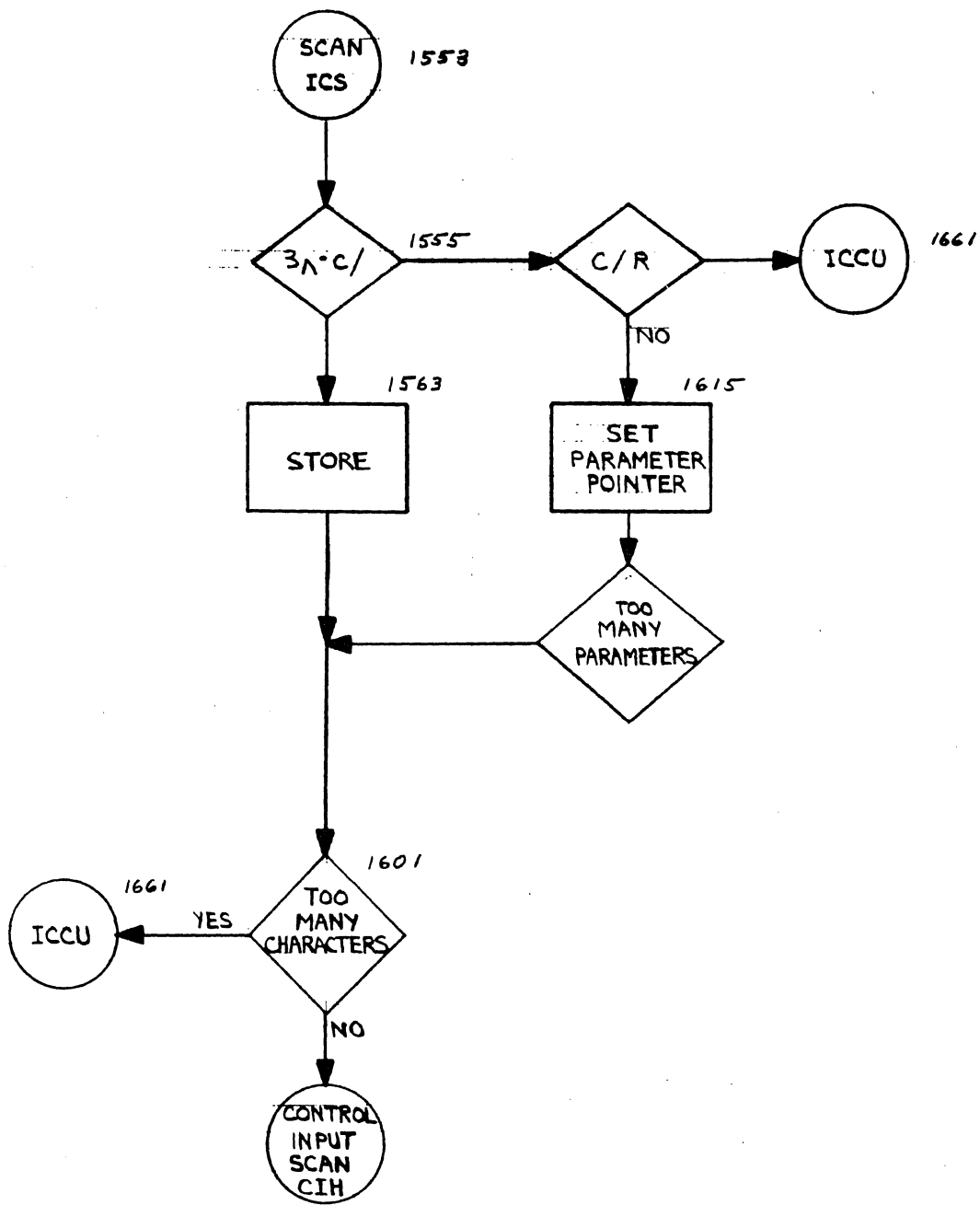


FIGURE 8  
CONTROL INPUT SCANNER (SCAN)

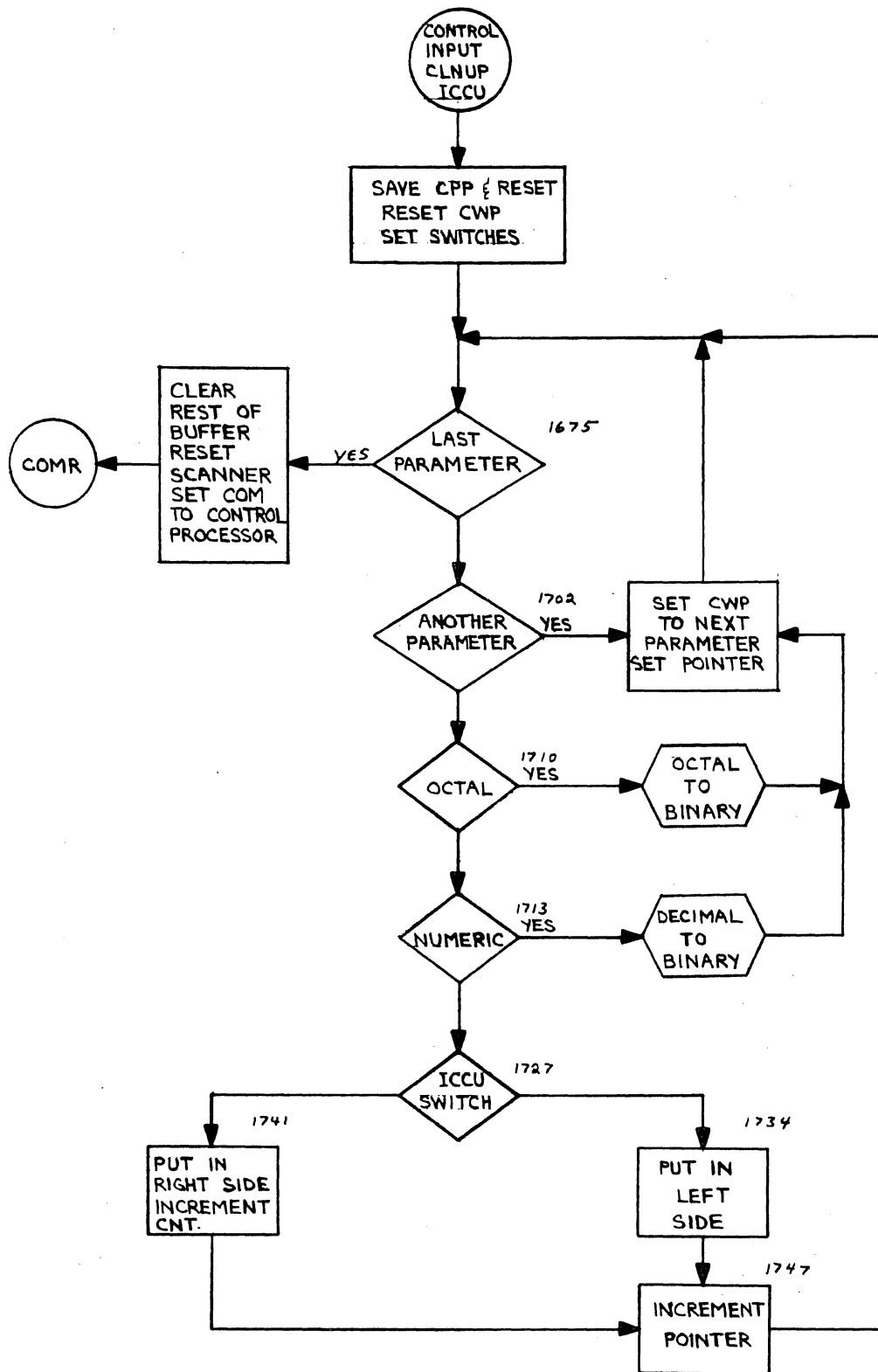


FIGURE 9  
CONTROL INPUT SCANNER WRAPUP

## CONTROL PROCESSOR COMMAND VERB DICTIONARY:

After the Control Input Scanner has converted and packed the directive, the program searches the dictionary for the command verb. The dictionary is loaded at the end of SELECT and the beginning of the test program forming a continuous table. The last entry in the table is an external reference so that SELECT may determine the end of the table. That location (ELL) must contain its own address. The entries in the dictionary consist of three words. The first two are the four ASCII character command verb and the third is the address of command servicing subroutine of the test program. (See Figure 4 for an example of Test Program set up.)

When test program interpretation is complete a return must be made to the Command Return address (C8R, see Figure 4, Line 16) to allow inputting of another directive.

Figure 10 is a flow chart of the Control Processor Flow. The block "Set up Parameters and Task Table" is the users control section if the directive is not one of those reserved by SELECT.

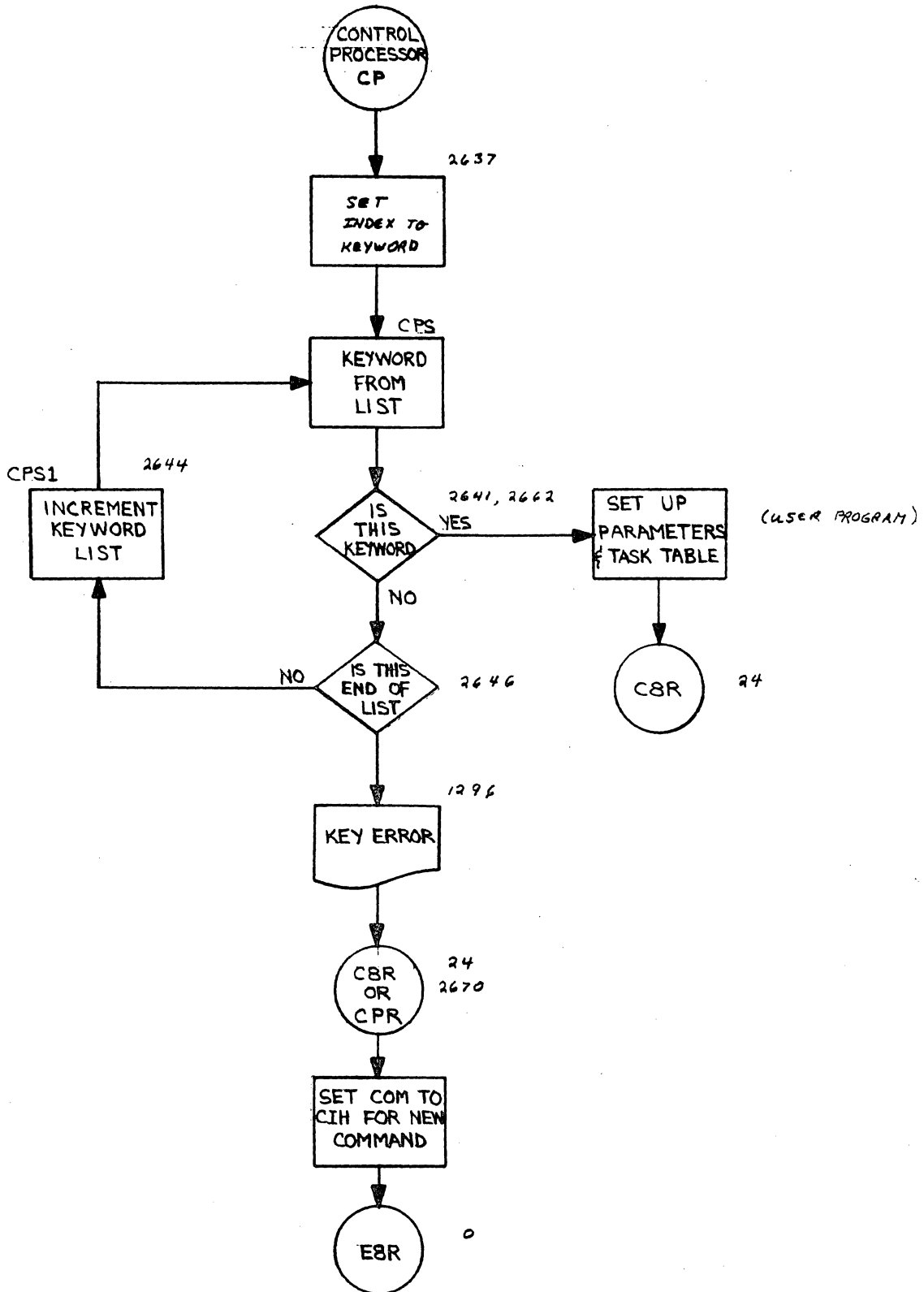


FIGURE 10



## CONTROL PROCESSOR COMMAND VERB DICTIONARY: (Cont'd)

Assign Entry - Each test program must provide an entry for the ASSIGN directive. If the second parameter of the ASSIGN directive is not found in the assign table of SELECT a BRU instruction will be executed to the external symbol ASGN which is in the test program. (See figure 4, lines 4 and 18. ). After the test program has interpreted the directive return must be made to Control Return (C8 R).

Executive Services - Typout - The typout routine may be used by using the following call:

SPB	S8TY
DAC	address of two character per word buffer
DATA	number of words

Location S8TY will equal zero if it is not busy with another task. If the routine is busy it will complete the message before servicing the new message.

Dump - The octal dump subroutine may be used by the following call:

SPB	S8D
DAC	first address to be dumped
DAC	last address to be dumped

Keysearch - This subroutine compares two words to a list containing a two word key and address and if equality is found executes a BRU to the address:

Call:

SPB	S8K
DAC	address of two words
DAC	address of first word in the list
DATA	number of entries in the list
RETURN HERE	if one equality is found

## CONTROL PROCESSOR COMMAND VERB DICTIONARY: (Cont'd)

Communication Location Assignment - The following is a table of the standard assignments of the SELECT communication locations:

## STANDARD COMMUNICATION LOCATIONS

## LOCATION SYMBOL

0	E8R	EXECUTIVE RETURN	
1	E8I	EXECUTIVE INITIALIZATION	
2	T8M2	ENTRY TO CAUSE EXEC TO RETURN TO PLACE - 2	
4	T8M1	ENTRY TO CAUSE EXEC TO RETURN TO PLACE - 1	
6	T8P1	ENTRY TO CAUSE EXEC TO RETURN TO PLACE + 1	
11	C81	CONTROL PARAMETER ADDRESS FOR	1
12	C82		2
13	C83		3
14	C84		4
15	C85		5
17	S8SN	STATEMENT NUMBER	
20	T8D	DELETE TASK	
22	T8A	ADD TASK	
24	C8R	CONTROL RETURN TO EXEC	
26	S8TY	TYPOUT SERVICE ROUTINE	
30	S8D	DUMP SERVICE ROUTINE	
32	S8SS	SENSE SWITCH CONTENTS	
		CONTROL SWITCH STANDARD ASSIGNMENTS	
	0=7N	CAUSES SS WORD TO BE CHANGED	
	1 7N	INHIBIT REPORTING ERROR	
	2 7N	INHIBIT HALT ON ERROR	
	3 7N	GO TO NEXT TEST AFTER ERROR	
	4 7N	LOOP ON CURRENT TEST	
34	T8C	TASK-CLEAR TABLE	
36	S8K	KEYSEARCH SUBROUTINE	
41	C8IB	CONTROL INPUT BUFFER	

## PROGRAM LISTING:

The program listing that appears on the following pages details the contents of the SELECT program.

1

PAGE 0001

SELECT EXECUTIVE

CATALOG NUMBER 3030154

0002	00000	00000000	*				0002
0003	00000	00000000	*	SYSTEMS ENGINEERING LABORATORIES EQUIPMENT CONFIGURATION TEST			0003
0004	00000	00000000	*				0004
0005	00000	00000000	*	SELECT			0005
0006	00000	00000000	*	FELIX E REARDEN			
0007	00000	00000000	*	MARCH 2 1968			
0008	00000	00000000	*				
0009	00000	00000000	*	THIS VERSION INCLUDES A HALT FOR	FEB 03/02/68	*B	
0010	00000	00000000	*	ACCURRANCE OF SPURIOUS INTERRUPTS	FEB 03/02/68	*B	
0011	00000	00000000	*	AND CORRECTION TO THE SERVICE ROUTINE	FEB 03/02/68	*B	
0012	00000	00000000	*	SBTY TO CORRECT LOGIC	FEB 03/02/68	*B	
0013	00000	00000000	*				
0014	00000	00000000	*				0008
0015	00000	00000000	*	OPERATION SUMMARY			0009
0016	00000	00000000	*				0010
0017	00000	00000000	*	LOADING PROCEDURE			0011
0018	00000	00000000	*				0012
0019	00000	00000000	*	USE RELOCATABLE LOADER (300001)			0013
0020	00000	00000000	*				0014
0021	00000	00000000	*	1 LOAD A WITH 0			0015
0022	00000	00000000	*	2 LOAD B WITH *230			0016
0023	00000	00000000	*	3 LOAD PC WITH STARTING ADDRESS OF RELOCATABLE LOADER			0017
0024	00000	00000000	*	4 SET LOADER CONTROLS OR SWITCHES			0018
0025	00000	00000000	*	5 PUT TAPE IN READER			0019
0026	00000	00000000	*	6 DEPRESS START TWICE			0020
0027	00000	00000000	*				0021
0028	00000	00000000	*	WHEN LOAD IS SUCCESSFUL			0022
0029	00000	00000000	*				0023
0030	00000	00000000	*	7 LOAD DESIRED TEST (GRAPE, FDSC)			0024
0031	00000	00000000	*	8 DEPRESS START			0025
0032	00000	00000000	*				0026
0033	00000	00000000	*	INITIALIZATION			0027
0034	00000	00000000	*				0028
0035	00000	00000000	*	1. DEPRESS MASTER CLEAR			0029
0036	00000	00000000	*	2. DEPRESS STEP			0030
0037	00000	00000000	*	3. DEPRESS START TWICE			0031

1

PAGE 0002

SELECT EXECUTIVE

CATALOG NUMBER 303015R

0038	00000	00000000	*				0033
0039	00000	00000000	*	SENSE SWITCH SETTINGS			0034
0040	00000	00000000	*	SS			0035
0041	00000	00000000	*	0=1	READ SWITCHES		0036
0042	00000	00000000	*	1=1	INHIBIT ERROR TYP0UTS		0037
0043	00000	00000000	*	2=1	INHIBIT HLT AFTER ERROR		0038
0044	00000	00000000	*	3=1	GO TO NEXT TEST AFTER ERROR		0039
0045	00000	00000000	*	4=1	LOOP ON CURRENT TEST (UNCONDITIONAL)		0040
0046	00000	00000000	*				0041
0047	00000	00000000	*	DIRECTIVES			0042
0048	00000	00000000	*				0043
0049	00000	00000000	*	SELECT			0044
0050	00000	00000000	*	HALT			0045
0051	00000	00000000	*	ASSIGN CONTROL TYPE			0046
0052	00000	00000000	*	ASSIGN CONTROL ASR			0047
0053	00000	00000000	*	ASSIGN CONTROL FAST			0048
0054	00000	00000000	*	ASSIGN TYPEWRITER (UNIT NUMBER)			0049
0055	00000	00000000	*	ASSIGN FAST (UNIT NUMBER)			0050
0056	00000	00000000	*	DUMP (FROM) (TO)			0051
0057	00000	00000000	*	MODIFY (ADDRESS) (CONTENTS)			0052
0058	00000	00000000	*	SET (SENSE SWITCH NUMBER)			0053
0059	00000	00000000	*	RESET (SENSE SWITCH NUMBER)			0054
0060	00000	00000000	*				0055
0061	00000	00000000	*	ERROR TYP0UTS			0056
0062	00000	00000000	*				0057
0063	00000	00000000	*	TYP0UT	INDICATION		0058
0064	00000	00000000	*	T0	TASK OVERFLOW		0059
0065	00000	00000000	*	C0	INPUT CHARACTER OVERFLOW		0060
0066	00000	00000000	*	P0	PARAMETER OVERFLOW		0061
0067	00000	00000000	*	CWE	COMMAND WORD ERROR		0062
0068	00000	00000000	*				0063
0069	00000	00000000	*				0064
0070	00000	00000000	*				0065
0071	00000	00000000	*		STANDARD COMMUNICATION LOCATIONS		0067
0072	00000	00000000	*				0068
0073	00000	00000000	*	LOCATION SYMBOL			0069
0074	00000	00000000	*				0070

1	PAGE	0003	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0075	00000	00000000	* 0	FBR	EXECUTIVE RETURN	0071
0076	00000	00000000	* 1	FBI	EXECUTIVE INITIALIZATION	0072
0077	00000	00000000	* 2	T8M2	ENTRY TO CAUSE EXEC TO RETURN TO PLACE - 2	0073
0078	00000	00000000	* 4	T8M1	ENTRY TO CAUSE EXEC TO RETURN TO PLACE - 1	0074
0079	00000	00000000	* 6	T8P1	ENTRY TO CAUSE EXEC TO RETURN TO PLACE + 1	0075
0080	00000	00000000	* 11	C81	CONTROL PARAMETER ADDRESS FOR 1	0076
0081	00000	00000000	* 12	C82	2	0077
0082	00000	00000000	* 13	C83	3	0078
0083	00000	00000000	* 14	C84	4	0079
0084	00000	00000000	* 15	C85	5	0080
0085	00000	00000000	* 17	S8SN	STATEMENT NUMBER	0081
0086	00000	00000000	*			0082
0087	00000	00000000	* 20	T8D	DELETE TASK	0083
0088	00000	00000000	* 22	T8A	ADD TASK	0084
0089	00000	00000000	* 24	C8R	CONTROL RETURN TO EXEC	0085
0090	00000	00000000	* 26	S8TY	TYP0UT SERVICE ROUTINE	0086
0091	00000	00000000	* 30	S8D	DUMP SERVICE ROUTINE	0087
0092	00000	00000000	* 32	S8SS	SENSE SWITCH CONTENTS	0088
0093	00000	00000000	*			0089
0094	00000	00000000	*	CONTROL SWITCH STANDARD ASSIGNMENTS		0090
0095	00000	00000000	*			0091
0096	00000	00000000	*	0=0N	CAUSES SS WORD TO BE CHANGED	0092
0097	00000	00000000	*	1 0N	INHIBIT REPORTING ERROR	0093
0098	00000	00000000	*	2 0N	INHIBIT HALT ON ERROR	0094
0099	00000	00000000	*	3 0N	GO TO NEXT TEST AFTER ERROR	0095
0100	00000	00000000	*	4 0N	LOOP ON CURRENT TEST	0096
0101	00000	00000000	*			0097
0102	00000	00000000	* 34	T8C	TASK-CLEAR TABLE	0098
0103	00000	00000000	* 36	S8K	KEYSEARCH SUBROUTINE	0099
0104	00000	00000000	* 41	C8IB	CONTROL INPUT BUFFER	0100
0105	00000	00000000	*			0102
0106	00000	60000000		ARG 0		0103
0107	00000	11001271	E8R BRU	COMR	EXEC RETURN	0104
0108	00001	11001200	F8I BRU	STRT	EXEC INIT	0105
0109	00002	00000000	T8M2 ***	**	PLACE MINUS 2	0106
0110	00003	11001327	BRU	C042		0107
0111	00004	00000000	T8M1 ***	**	PLACE MINUS 1	0108

1	PAGE	0004	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0112	00005	11001323	BRU COM1			0109
0113	00006	00000000	T8P1 *** **	PLACE PLUS 1		0110
0114	00007	11001333	BRU COM1			0111
0115	00010	60000010	ORG *10			0112
0116	00010	00000000	CPP *** **	CONTROL PARAMETER POINTER		0113
0117	00011	00000000	C81 *** **	CONTROL PARAMETER POINTERS		0114
0118	00012	00000000	C82 *** **			0115
0119	00013	00000000	C83 *** **			0116
0120	00014	00000000	C84 *** **			0117
0121	00015	00000000	C85 *** **			0118
0122	00016	00000000	*** **			0119
0123	00017	00177777	S8SN DATA -1	STATEMENT NUMBER		0120
0124	00020	60000020	ORG *20			0121
0125	00020	00000000	T8D *** **	TASK DELETE		0122
0126	00021	11001353	BRU DTAS			0123
0127	00022	00000000	T8A *** **	TASK ADD		0124
0128	00023	11001367	BRU ATAS			0125
0129	00024	11002673	C8R BRU CPR			0126
0130	00025	00000000	DATA 0	TYPE		0127
0131	00026	00000000	S8TY *** **	TYPE ROUTINE		0128
0132	00027	11002277	BRU TYPE			0129
0133	00030	00000000	S8D *** **	DUMP ROUTINE		0130
0134	00031	11002340	BRU DMP			0131
0135	00032	00000000	S8SS DATA 0			0132
0136	00033	00000000	DATA 0			0133
0137	00034	00000000	T8C *** **			0134
0138	00035	11001410	BRU CTSK			0135
0139	00036	00000000	S8K *** **	KEYSEARCH		0136
0140	00037	11002243	BRU KSS			0137
0141	00040	25400000	CWP DAC **	CONTROL WORD POINTER		0138
0142	00041	00000117	C8IB BSS 79			0139
0143	00160	00000041	CWR EQU C8IB			0140
0144	00160	00000000	CWM DATA 0	LAST CONTROL WORD		0141
0145	00161	00000000	*			0142
0146	00161	00000001	TYPC EQU 1			0143
0147	00161	00000001	C0NC EQU 1			0144
0148	00161	00000002	HPTC EQU 2			0145

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ASSIGNMENT LOCATIONS

CONTROL DEVICE ASSIGNMENT

0149	00161	00000000	*						0147
0150	00161	00000001	TYP	DATA	TYP				0148
0151	00162	00000001	CØN	DATA	CØN				0149
0152	00163	00000002	HPT	DATA	HPT				0150
0153	00164	00000000	CØM	DATA	Ø				0151
0154	00165	00176030	MIX3	DATA	-1000				0152
0155	00166	00177766	M10	DATA	-10				0153
0156	00167	00177767	M9	DATA	-9				0154
0157	00170	00177772	M6	DATA	-6				0155
0158	00171	00177773	M5	DATA	-5				0156
0159	00172	00177774	M4	DATA	-4				0157
0160	00173	00177775	M3	DATA	-3				0158
0161	00174	00177776	M2	DATA	-2				0159
0162	00175	00177777	M1	DATA	-1				0160
0163	00176	00000001	P1	DATA	1				0161
0164	00177	00000002	P2	DATA	2				0162
0165	00200	00000003	P3	DATA	3				0163
0166	00201	00000007	P7	DATA	7				0164
0167	00202	00000077	P63	DATA	63				0165
0168	00203	00007640	P4X3	DATA	4000				0166
0169	00204	00140000	D3T2	DATA	140000				0167
0170	00205	00100000	B0	DATA	100000				0168
0171	00206	00040000	B1	DATA	040000				0169
0172	00207	00020000	B2	DATA	020000				0170
0173	00210	00010000	B3	DATA	010000				0171
0174	00211	00000004	B13	DATA	000004				0172
0175	00212	00000002	B14	DATA	000002				0173
0176	00213	00000000	*						0175
0177	00213	00000000	*						0176
0178	00213	25401553	EICS	DAC	ICS		CONTROL	SCANNER	0177
0179	00214	25402637	ECP	DAC	CP		CONTROL	PROCESSOR	0178
0180	00215	25400160	ECWM	DAC	CWM				0179
0181	00216	25400041	ECWB	DAC	CWB				0180
0182	00217	25400011	EPPS	DAC	CPP+1				0181
0183	00220	00000000	*						
0184	00220	00000000	SIHL	***	**				
0185	00221	00000035	TØI						

FEB 03/02/68

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1	PAGE	0006	SELECT EXECUTIVE	CATALOG NUMBER	3030153	
0186	00222	11200223	BRU* **1	FE8	03/02/68	*B
0187	00223	25400224	DAC **1	FE8	03/02/68	*B
0188	00224	00000000	HLT	FE8	03/02/68	*B
0189	00225	00000000	*	SPURIOUS INTERRUPT HAS		*B
0190	00225	00000000	*	OCCURRED		*B
0191	00225	11000224	BRU *-1	FE8	03/02/68	*B
0192	01000	60001000	ORG *1000	FE8	03/02/68	*B
0193	01000	25400220	DAC SIHL	FE8	03/02/68	*B
0194	01001	25400220	DAC SIHL	FE8	03/02/68	*B
0195	01002	25400220	DAC SIHL	FE8	03/02/68	*B
0196	01003	25400220	DAC SIHL	FE8	03/02/68	*B
0197	01004	25400220	DAC SIHL	FE8	03/02/68	*B
0198	01005	25400220	DAC SIHL	FE8	03/02/68	*B
0199	01006	25400220	DAC SIHL	FE8	03/02/68	*B
0200	01007	25400220	DAC SIHL	FE8	03/02/68	*B
0201	01010	25400220	DAC SIHL	FE8	03/02/68	*B
0202	01011	25400220	DAC SIHL	FE8	03/02/68	*B
0203	01012	25400220	DAC SIHL	FE8	03/02/68	*B
0204	01013	25400220	DAC SIHL	FE8	03/02/68	*B
0205	01014	25400220	DAC SIHL	FE8	03/02/68	*B
0206	01015	25400220	DAC SIHL	FE8	03/02/68	*B
0207	01016	25400220	DAC SIHL	FE8	03/02/68	*B
0208	01017	25400220	DAC SIHL	FE8	03/02/68	*B
0209	01020	25400220	DAC SIHL	FE8	03/02/68	*B
0210	01021	25400220	DAC SIHL	FE8	03/02/68	*B
0211	01022	25400220	DAC SIHL	FE8	03/02/68	*B
0212	01023	25400220	DAC SIHL	FE8	03/02/68	*B
0213	01024	25400220	DAC SIHL	FE8	03/02/68	*B
0214	01025	25400220	DAC SIHL	FE8	03/02/68	*B
0215	01026	25400220	DAC SIHL	FE8	03/02/68	*B
0216	01027	25400220	DAC SIHL	FE8	03/02/68	*B
0217	01030	25400220	DAC SIHL	FE8	03/02/68	*B
0218	01031	25400220	DAC SIHL	FE8	03/02/68	*B
0219	01032	25400220	DAC SIHL	FE8	03/02/68	*B
0220	01033	25400220	DAC SIHL	FE8	03/02/68	*B
0221	01034	25400220	DAC SIHL	FE8	03/02/68	*B
0222	01035	25400220	DAC SIHL	FE8	03/02/68	*B



0223	01036	25400220	DAC	SIHL	FEB 03/02/68	*B
0224	01037	25400220	DAC	SIHL	FEB 03/02/68	*B
0225	01040	25400220	DAC	SIHL	FEB 03/02/68	*B
0226	01041	25400220	DAC	SIHL	FEB 03/02/68	*B
0227	01042	25400220	DAC	SIHL	FEB 03/02/68	*B
0228	01043	25400220	DAC	SIHL	FEB 03/02/68	*B
0229	01044	25400220	DAC	SIHL	FEB 03/02/68	*B
0230	01045	25400220	DAC	SIHL	FEB 03/02/68	*B
0231	01046	25400220	DAC	SIHL	FEB 03/02/68	*B
0232	01047	25400220	DAC	SIHL	FEB 03/02/68	*B
0233	01050	25400220	DAC	SIHL	FEB 03/02/68	*B
0234	01051	25400220	DAC	SIHL	FEB 03/02/68	*B
0235	01052	25400220	DAC	SIHL	FEB 03/02/68	*B
0236	01053	25400220	DAC	SIHL	FEB 03/02/68	*B
0237	01054	25400220	DAC	SIHL	FEB 03/02/68	*B
0238	01055	25400220	DAC	SIHL	FEB 03/02/68	*B
0239	01056	25400220	DAC	SIHL	FEB 03/02/68	*B
0240	01057	25400220	DAC	SIHL	FEB 03/02/68	*B
0241	01200	60001200	ORG	1200		

0242	01200	00000000	*			0183
0243	01200	00000000	*	EXECUTIVE		0184
0244	01200	00000000	*			0185
0245	01200	00001200	STRY	EDU *		0186
0246	01200	00000000	*	SET UP STANDARD ASSIGNMENTS		0187
0247	01200	00130101	CEU	1, W		0188
0248	01201	00001000	DATA	1001000		0189
0249	01202	02000172	LBA	M4		0190
0250	01203	01401425	LAA	STYP+4,1		0191
0251	01204	03400165	STA	TYP+4,1		0192
0252	01205	00000026	IBS			0193
0253	01206	11001203	RRU	*-3		0194
0254	01207	00000000	*	SET UP INITIALIZATION TASK		0195
0255	01207	00000003	CLA			0196
0256	01210	03002335	STA	STY4		0197
0257	01211	01001234	LAA	SRT+3		0198
0258	01212	03001233	STA	SRT+2		0199
0259	01213	12000034	SPB	T8C		0200

0260	01214	01001766	LAA	CCIH		0202
0261	01215	12000020	SPB	T80		0203
0262	01216	01001235	LAA	SRT+4		0204
0263	01217	12000022	SPB	T8A		0205
0264	01220	01001446	LAA	CSW1	INITIALIZE CONTROL SCANNER	0206
0265	01221	03001445	STA	CSW		0207
0266	01222	01000216	LAA	ECWB		0208
0267	01223	03000040	STA	CWP		0209
0268	01224	01000217	LAA	EPSS		0210
0269	01225	03000010	STA	CPP		0211
0270	01226	00000000 *				0212
0271	01226	01001767	LAA	ECIH		0213
0272	01227	03001443	STA	CIH+2		0214
0273	01230	11001271	BRU	C0MR		0215
0274	01231	00000000 SRT	***	**		0217
0275	01232	00000000	***	**		0218
0276	01233	25401236	DAC	SRTA		0219
0277	01234	00000000 *				0220
0278	01234	25401236	DAC	SRTA		0221
0279	01235	25401231	DAC	SRT		0222
0280	01236	00000000 *			TASK TO INITIALIZE PROGRAM	0223
0281	01236	00001236 SRTA	EQU	*		0224
0282	01236	12002231	SPB	CCIB		0225
0283	01237	12002010	SPB	CRLA		0226
0284	01240	12002010	SPB	CRLA		0227
0285	01241	12002010	SPB	CRLA		0228
0286	01242	00000000 *			TYPE OUT TITLE	0229
0287	01242	12000026	SPB	S8TY		0230
0288	01243	25401261	DAC	MSIN		0231
0289	01244	00000010	DATA	8		0232
0290	01245	12002010	SPB	CRLA		0233
0291	01246	00000000 *			TYPE OUT TEST TITLE	0234
0292	01246	40500000	LAA	SELL		0235
0293	01247	05000176	AMA	P1		0236
0294	01250	03001252	STA	**2		0237
0295	01251	12000026	SPB	S8TY		0238
0296	01252	00000000	***	**		0239

1	PAGE	0009	SELECT EXECUTIVE	CATALOG NUMBER	303015R	
0297	01253	00000010	DATA R			0240
0298	01254	12002010	SPB CRLA			0241
0299	01255	00000000 *				0242
0300	01255	01001234	LAA SRT+3			0243
0301	01256	03001233	STA SRT+2			0244
0302	01257	12000034	SPB T8C			0245
0303	01260	11001271	BRU COMR			0246
0304	01261	00000000 *				0247
0305	01261	00151705	MSIN DATA 'SELECT'			0248
0305	01262	00146305				
0305	01263	00141724				
0305	01264	00120240				
0306	01265	00130263	DATA '03-02-68'			
0306	01266	00126660				
0306	01267	00131255				
0306	01270	00133270				
0307	01271	00001271	COMR EQU *			0251
0308	01271	00000000 *		CHECK SENSE SWITCH SETTING		0252
0309	01271	00000031	LCS			0253
0310	01272	00000023	SAN			0254
0311	01273	11001276	BRU **3			0255
0312	01274	03002625	STA STEM			0256
0313	01275	03000032	STA SBSS			0257
0314	01276	00000000 *		TASK POINTER CONTROL		0258
0315	01276	00000000 *				0259
0316	01276	02001440	LBA CTP	UPDATE COM		0260
0317	01277	01201437	LAA* CTA			0261
0318	01300	00000026	IBS	INCREMENT TASK POINTER		0262
0319	01301	11001303	BRU **2			0263
0320	01302	11001305	BRU RTP			0264
0321	01303	04001440	STB CTP			0265
0322	01304	11001307	BRU **3			0266
0323	01305	00000000 *				0267
0324	01305	02000166	RTP LBA M10	RESET TASK POINTER		0268
0325	01306	04001440	STB CTP			0269
0326	01307	00000000 *				0270
0327	01307	00000024	SAP	IS TASK FILLED		0271

1	PAGE	0010	SELECT EXECUTIVE	CATALOG NUMBER	303015R	
0328	01310	11001271	BRU COMR			0272
0329	01311	03000164	STA COM			0273
0330	01312	00000000	*	FIX RETURN ADDRESS		0274
0331	01312	02000164	LBA COM			0275
0332	01313	02400002	LBA 2,1			0276
0333	01314	04001322	STB TSA			0277
0334	01315	00000000	*	LOAD A REGISTER		0278
0335	01315	01200164	LAA* COM			0279
0336	01316	14000164	IMS COM	B REGISTER		0280
0337	01317	02200164	LBA* COM			0281
0338	01320	14000164	IMS COM			0282
0339	01321	11201322	BRU* TSA			0283
0340	01322	00000000	*			0284
0341	01322	00000000	TSA ZZZ **			0285
0342	01323	00000000	*	PROCESS RETURN MINUS 1		0287
0343	01323	00001323	COM1 EQU *			0288
0344	01323	04001351	STB CSR			0289
0345	01324	02000004	LBA TBM1			0290
0346	01325	16000174	AMB M2			0291
0347	01326	11001335	BRU CCOM			0292
0348	01327	00000000	*			0293
0349	01327	00000000	*	PROCESS RETURN MINUS 2		0294
0350	01327	00001327	COM2 EQU *			0295
0351	01327	04001351	STB CSR			0296
0352	01330	02000002	LBA TBM2			0297
0353	01331	16000173	AMB M3			0298
0354	01332	11001335	BRU CCOM			0299
0355	01333	00000000	*			0300
0356	01333	00000000	*	PROCESS RETURN PLUS 1		0301
0357	01333	00001333	COP1 EQU *			0302
0358	01333	04001351	STB CSR			0303
0359	01334	02000006	LBA TBP1			0304
0360	01335	00000000	*			0305
0361	01335	00000000	*	STORE RETURN, A AND B IN TASK RETURN TABLE		0306
0362	01335	03001350	CCOM STA CSA			0307
0363	01336	00000006	IAB			0308
0364	01337	02000164	LBA COM			0309

1	PAGE	0011	SELECT EXECUTIVE	CATALOG NUMBER	303015R	
0365	01340	16000174	AMB M2			0310
0366	01341	03400002	STA 2,1		B REGISTER	0311
0367	01342	01001350	LAA CSA			0312
0368	01343	03400000	STA 0,1	STORE RETURN		0313
0369	01344	01001351	LAA CSR			0314
0370	01345	03400001	STA 1,1		A REGISTER	0315
0371	01346	04000164	STB COM			0316
0372	01347	11001271	BRU COMR			0317
0373	01350	00000000 *				0318
0374	01350	00000000	CSA DATA 0			0319
0375	01351	00000000	CSR DATA 0			0320
0376	01352	00000000	CSC DATA 0			0321
0377	01353	00000000 *		DELETE TASK		0323
0378	01353	00000000 *		A = TASK ADDRESS		0324
0379	01353	00000000 *				0325
0380	01353	00001353	DTAS EQU *			0326
0381	01353	03001420	STA ATT			0327
0382	01354	02000166	LBA M10			0328
0383	01355	01201437	DTAA LAA* CTA			0329
0384	01356	15001420	CMA ATT	IS THIS THE ONE		0330
0385	01357	11001361	BRU DTAB	NØ		0331
0386	01360	11001364	BRU DTAC	YES		0332
0387	01361	00000026	DTAB IBS	NØ TRY NEXT 1		0333
0388	01362	11001355	BRU DTAA			0334
0389	01363	11200020	BRU* T8D			0335
0390	01364	00000000 *				0336
0391	01364	01000175	DTAC LAA M1	FILL TASK ADDRESS WITH -1		0337
0392	01365	03201437	STA* CTA			0338
0393	01366	11001355	BRU DTAA			0339
0394	01367	00000000 *		ADD TASK		0341
0395	01367	00000000 *		A = TASK ADDRESS		0342
0396	01367	00001367	ATAS EQU *			0343
0397	01367	03001420	STA ATT			0344
0398	01370	02000166	LBA M10			0345
0399	01371	01201437	LAA* CTA			0346
0400	01372	00000023	SAN	IS THIS ON OPENING		0347
0401	01373	11001377	BRU **4	NØ		0348

1	PAGE	0012	SELECT EXECUTIVE	CATALOG NUMBER	3030158	
0402	01374	01001420	LAA ATT	YES		0349
0403	01375	03201437	STA* CTA			0350
0404	01376	11200022	BRU* TBA			0351
0405	01377	00000000 *				0352
0406	01377	00000026	IRS	INCREMENT AND CHECK TASK POINTER		0353
0407	01400	11001371	BRU ATAS+2			0354
0408	01401	12002010	SPB CRLA			0355
0409	01402	12000026	SPB SBTY			0356
0410	01403	25401407	DAC T0FM			0357
0411	01404	00000001	DATA 1			0358
0412	01405	12002010	SPB CRLA			0359
0413	01406	11000024	BRU CBR			0360
0414	01407	00000000 *				0361
0415	01407	00152317	T0FM DATA 'T0''			0362
0416	01410	00000000 *				0363
0417	01410	00000000 *		TASK OVERFLOW ERROR		0364
0418	01410	00000000 *				0365
0419	01410	00000000 *				0366
0420	01410	00000000 *		CLEAR TASK TABLE		0367
0421	01410	00000000 *				0368
0422	01410	00001410	CTSK EQU *			0369
0423	01410	02000166	LBA M10			0370
0424	01411	01000175	LAA M1			0371
0425	01412	03201437	STA* CTA			0372
0426	01413	00000026	IRS			0373
0427	01414	11001411	BRU *-3			0374
0428	01415	01001766	LAA CCIH			0375
0429	01416	03001425	STA TSK			0376
0430	01417	11200034	BRU* TBC			0377
0431	01420	00000000 *				0378
0432	01420	00000000	ATT DATA 0			0379
0433	01421	00000000 *				0381
0434	01421	00000000 *		STANDARD TO ASSIGNMENTS		0382
0435	01421	00000001	STYP DATA TYPC			0383
0436	01422	00000001	DATA C0NC			0384
0437	01423	00000002	DATA HPTC			0385
0438	01424	25401441	DAC CIH			0386

1	PAGE	0013	SELECT EXECUTIVE	CATALOG NUMBER	3030153	
0439	01425	00000000	*	SET COMMUTATOR TO CONTROL SCANNER		0387
0440	01425	00000000	*			0389
0441	01425	00000000	*	EXECUTIVE TASK PROCESSING LIST		0390
0442	01425	00000000	*			0391
0443	01425	25401441	TSK DAC CIH			0392
0444	01426	00177777	DATA -1			0393
0445	01427	00177777	DATA -1			0394
0446	01430	00177777	DATA -1			0395
0447	01431	00177777	DATA -1			0396
0448	01432	00177777	DATA -1			0397
0449	01433	00177777	DATA -1			0398
0450	01434	00177777	DATA -1			0399
0451	01435	00177777	DATA -1			0400
0452	01436	00177777	DATA -1			0401
0453	01437	00000000	*			0402
0454	01437	25601437	CTA DAC TSK+10,1	TASK ADDRESS		0403
0455	01440	00177766	CTP DATA -10			0404
0456	01441	00000000	*	CONTROL INPUT HANDLER		0406
0457	01441	00000000	CIH DATA 0	A REGISTER SAVE		0407
0458	01442	00000000	DATA 0	B REGISTER SAVE		0408
0459	01443	25401444	DAC CIH+3			0409
0460	01444	00000000	*	CONTROL INPUT HANDLER		0410
0461	01444	11201445	BRU* CSW			0411
0462	01445	00000000	*	SWITCH AND SETTINGS		0412
0463	01445	25401452	CSW DAC TM0D			0413
0464	01446	25401452	CSW1 DAC TM0D			0414
0465	01447	25401530	CSW2 DAC RM0D			0415
0466	01450	25401541	CSW3 DAC HSRM			0416
0467	01451	25401471	CSW4 DAC CIN			0417
0468	01452	00000000	*	TYPE IV HANDLER INITIALIZATION		0418
0469	01452	00001452	TM0D EQU *			0419
0470	01452	00000000	*	FIX UP CEU		0420
0471	01452	01001520	LAA BCEU			0421
0472	01453	02000161	LBA TYP			0422
0473	01454	00000030	ØBA			0423
0474	01455	03001456	STA **+1			0424
0475	01456	00130000	CEU 0			0425

1	PAGE	0014	SELECT EXECUTIVE	CATALOG NUMBER	3030158	
0476	01457	00002000	DATA	!002000		0426
0477	01460	12000002	SPB	T8M2		0427
0478	01461	00000000	*		FIX SWITCHES	0428
0479	01461	01001504	LAA	CSW5		0429
0480	01462	03001503	STA	CSWA		0430
0481	01463	02000161	LBA	TYP		0431
0482	01464	00000000	*		FIX AIP	0432
0483	01464	01001521	CIHA	LAA	RAIP	0433
0484	01465	00000030	ØBA			0434
0485	01466	03001472	STA	CAIP		0435
0486	01467	01001451	LAA	CSW4		0436
0487	01470	03001445	STA	CSA		0437
0488	01471	00000000	*			0438
0489	01471	00000003	CIN	CLA		0440
0490	01472	00170200	CAIP	AIP	0	0441
0491	01473	12000004	SPB	T8M1		0442
0492	01474	00000022	SAZ		NOTHING IN	0443
0493	01475	11001477	BRU	*+2	NO-DO SOMETHING WITH IT	0444
0494	01476	11001473	BRU	*-3	YES-GET OUT OF HERE	0445
0495	01477	03001523	STA	IBUF		0446
0496	01500	00001016	LSL	8		0447
0497	01501	03001517	STA	ØBUF		0448
0498	01502	11201503	BRU*	CSWA		0449
0499	01503	00000000	*			0450
0500	01503	00000000	*		SWITCH FOR TYPIN CONTROL	0451
0501	01503	25401553	CSWA	DAC	ICS	0452
0502	01504	25401506	CSW5	DAC	CIHT	0453
0503	01505	25401553	CSW6	DAC	ICS	0454
0504	01506	00000000	*		TYPE IT OUT	0455
0505	01506	01001522	CIHT	LAA	RMØP	0456
0506	01507	02000161		LBA	TYP	0457
0507	01510	00000030		ØBA		0458
0508	01511	03001512		STA	CMØP	0459
0509	01512	00172401	CMØP	MØP*	1	0460
0510	01513	25401517		DAC	ØBUF	0461
0511	01514	12000002		SPB	T8M2	0462
0512	01515	11001553		BRU	ICS	0463



0513	01516	00000000	*			0464
0514	01516	00000000	LCWP	DATA	0	0465
0515	01517	00000000	IBUF	DATA	0	0466
0516	01520	00130000	RCEU	CEU	0	0467
0517	01521	00170200	BAIP	AIP	0	0468
0518	01522	00172400	RMOP	MOP*	0	0469
0519	01523	00000000	IBUF	DATA	0	0470
0520	01524	00000000	MSB	DATA	0	0471
0521	01525	25401506	CSW7	DAC	CIHT	0472
0522	01526	00000000	SCWP	DATA	0	0473
0523	01527	00000000	SGSW	DATA	0	0474
0524	01530	00000000	*			0476
0525	01530	00000000	*			0477
0526	01530	00001530	RMMD	EQU	*	0478
0527	01530	01001520	LAA	RCEU		0479
0528	01531	05000161	AMA	TYP		0480
0529	01532	03001533	STA	**+1		0481
0530	01533	00130000	CEU	0		0482
0531	01534	00004000	DATA	'004000		0483
0532	01535	12000002	SPB	T8M2		0484
0533	01536	00000000	*			0485
0534	01536	01001505	LAA	CSW6		0486
0535	01537	03001503	STA	CSWA		0487
0536	01540	11001463	BRU	CIHA-1		0488
0537	01541	00000000	*			0489
0538	01541	00000000	*			0490
0539	01541	00000000	*			0491
0540	01541	00001541	HSRM	EQU	*	0492
0541	01541	01001520	LAA	RCEU		0493
0542	01542	05000163	AMA	HPT		0494
0543	01543	03001544	STA	**+1		0495
0544	01544	00130000	CEU	0		0496
0545	01545	00001000	DATA	'001000		0497
0546	01546	12000002	SPB	T8M2		0498
0547	01547	00000000	*			0499
0548	01547	01001505	LAA	CSW6		0500
0549	01550	03001503	STA	CSWA		0501

## ASR INPUT INITIALIZATION

## FIX SWITCH

## HIGH SPEED READER INITIALIZATION

## FIX SWITCH

0550	01551	02000163	LBA	HPT		0502
0551	01552	11001464	BRU	CIHA		0503
0552	01553	00000000	*			0505
0553	01553	00000000	*		INPUT CONTROL SCANNER	0506
0554	01553	00000000	*			0507
0555	01553	00001553	ICS	ERU	*	0508
0556	01553	02000172	LBA	M4		0509
0557	01554	01001523	LAA	IBUF		0510
0558	01555	00000000	*		CHECK FOR DELETE	0511
0559	01555	15002037	CMA	ICC+7		0512
0560	01556	11001560	BRU	**2		0513
0561	01557	00000000	*		START NEW STATEMENT GO	0514
0562	01557	11001653	BRU	ICDL		0515
0563	01560	00000000	*		IGNORE LINE FEED	0516
0564	01560	15002040	CMA	ICC+8		0517
0565	01561	11001563	BRU	**2		0518
0566	01562	11001444	BRU	CIH+3		0519
0567	01563	03200040	STA*	CWP		0520
0568	01564	14000040	TMS	CWP		0521
0569	01565	15402034	CMA	ICC+4,1	CHECK FOR .C/R	0522
0570	01566	11001570	BRU	**2		0523
0571	01567	11001615	BRU	ICSA		0524
0572	01570	00000026	IRS			0525
0573	01571	11001565	BRU	*-4		0526
0574	01572	00000000	*		CHECK FOR STATEMENT NUMBER	0527
0575	01572	01000040	LAA	CWP		0528
0576	01573	05000175	AMA	M1		0529
0577	01574	15000216	CMA	ECWB		0530
0578	01575	00000000	HLT		ILLEGAL CWP SETTING	0531
0579	01576	11001641	BRU	ICSN		0532
0580	01577	00000000	*		CHECK WORD COUNT AND GO TO NEXT CHARACTER	0534
0581	01577	01001523	ICSC	LAA	IBUF	0535
0582	01600	01000040	ICSB	LAA	CWP	0536
0583	01601	15000215	CMA	ECWM	T00 MAY WORDS	0537
0584	01602	11001605	BRU	**3	N0	0538
0585	01603	11001605	BRU	**2	N0	0539
0586	01604	11001606	BRU	**2		0540

0587	01605	11001444	BRU	CIH+3		0541
0588	01606	00000000	*		TYPE OUT TOO MANY WORDS AND RESTART	0542
0589	01606	12002010	SPB	CRLA		0543
0590	01607	12000026	SPB	SBTY		0544
0591	01610	25401614	DAC	CØFM		0545
0592	01611	00000001	DATA	1		0546
0593	01612	12002010	SPB	CRLA		0547
0594	01613	11001653	BRU	ICDL		0548
0595	01614	00000000	*			0549
0596	01614	00141717	CØFM	DATA	'CØ''	0550
0597	01615	00000000	*			0552
0598	01615	01000040	ICSA	LAA	CWP	0553
0599	01616	03200010	STA*	CPP		0554
0600	01617	00000000	*			0555
0601	01617	01002033	LAA	ICC+3		0556
0602	01620	15001523	CMA	IBUF		0557
0603	01621	11001623	BRU	*+2		0558
0604	01622	11001661	BRU	ICCU	YES - GO TO CLEAN UP	0559
0605	01623	01000040	LAA	CWP	NO	0560
0606	01624	03200010	STA*	CPP		0561
0607	01625	14000010	IMS	CPP		0562
0608	01626	01000010	LAA	CPP		0563
0609	01627	15001660	CMA	FLP		0564
0610	01630	11001600	BRU	ICSB		0565
0611	01631	00000033	NØP			0566
0612	01632	12002010	SPB	CRLA		0567
0613	01633	12000026	SPB	SBTY		0568
0614	01634	25401640	DAC	PØFM		0569
0615	01635	00000001	DATA	1		0570
0616	01636	12002010	SPB	CRLA		0571
0617	01637	11001653	BRU	ICDL		0572
0618	01640	00000000	*			0573
0619	01640	00150317	PØFM	DATA	'PØ''	0574
0620	01641	00000000	*			0576
0621	01641	00000000	*		CHECK FOR STATEMENT NUMBER	0577
0622	01641	01001523	ICSN	LAA	IBUF	0578
0623	01642	15002035	CMA	ICC+5		0579

1	PAGE	0018	SELECT EXECUTIVE	CATALOG NUMBER	303015R	
0624	01643	11001650	BRU **5			0580
0625	01644	00000033	NOP			0581
0626	01645	15002036	CMA ICC+6			0582
0627	01646	00000033	NOP			0583
0628	01647	11001651	BRU **2			0584
0629	01650	11001577	BRU ICSC			0585
0630	01651	00000000 *		FIX UP STATEMENT NUMBER		0586
0631	01651	06002035	SMA ICC+5			0587
0632	01652	03000017	STA S8SN			0588
0633	01653	00000000 *		RESTART STATEMENT		0589
0634	01653	01000216	ICDL LAA FCWB			0590
0635	01654	03000040	STA CWP			0591
0636	01655	12002000	SPB CARR			0592
0637	01656	12002231	SPB CCIB			0593
0638	01657	11001444	BRU CIH+3			0594
0639	01660	25400017	ELP DAC CPP+7			0595
0640	01661	00000000 *				0597
0641	01661	00000000 *		INPUT CONTROL SCANNER CLEANUP		0598
0642	01661	00000000 *				0599
0643	01661	00001661	ICCU EQU *	INITIALIZATION		0600
0644	01661	02200010	LBA* CPP			0601
0645	01662	01001523	LAA IBUF			0602
0646	01663	03400000	STA 0,1			0603
0647	01664	01000010	LAA CPP			0604
0648	01665	03002043	STA ISCP			0605
0649	01666	01002045	LAA FISE			0606
0650	01667	03002044	STA IC5W			0607
0651	01670	01000217	LAA EPPS			0608
0652	01671	03000010	STA CPP			0609
0653	01672	01000216	LAA FCWB			0610
0654	01673	03000040	STA CWP			0611
0655	01674	03002047	STA CWPA			0612
0656	01675	00000000 *				0613
0657	01675	00001675	ICCA EQU *			0614
0658	01675	00000000 *				0615
0659	01675	00000000 *		IS THIS THE END OF THE STATEMENT		0616
0660	01675	01200040	LAA* CWP			0617

1	PAGE	0019	SELECT EXECUTIVE	CATALOG NUMBER	303-015R	
0661	01676	15002033	CMA ICC+3			0618
0662	01677	11001701	BRU **2			0619
0663	01700	11001752	BRU ICCX			0620
0664	01701	00000000 *		ANOTHER PARAMETER		0621
0665	01701	02000172	LBA M4			0622
0666	01702	15402034	CMA ICC+4,1			0623
0667	01703	11001705	BRU **2			0624
0668	01704	11001770	BRU ICCE			0625
0669	01705	00000026	IBS			0626
0670	01706	11001702	BRU *-4			0627
0671	01707	00000000 *				0628
0672	01707	00001707	ICCB EQU *			0629
0673	01707	01200040	LAA* CWP			0630
0674	01710	15002034	CMA ICC+4	ACTAL PARAMETER		0631
0675	01711	11001713	BRU **2	NO		0632
0676	01712	11002050	BRU OCTP			0633
0677	01713	15002035	CMA ICC+5	NUMERIC 0 OR MORE		0634
0678	01714	11001721	BRU **5	NO		0635
0679	01715	00000033	NOP			0636
0680	01716	15002036	CMA ICC+6	9 OR LESS		0637
0681	01717	11002056	BRU FDTB	YES		0638
0682	01720	11002056	BRU FDTB	YES		0639
0683	01721	15002041	CMA ICC+9	IS THIS A PLUS		0640
0684	01722	11001724	BRU **2	NO		0641
0685	01723	11001747	BRU ICCC	YES		0642
0686	01724	15002042	CMA ICC+10	IS THIS A MINUS		0643
0687	01725	11001727	BRU **2	NO		0644
0688	01726	11001730	BRU SGNM	YES		0645
0689	01727	11202044	BRU* ICSW			0646
0690	01730	00000000 *				0647
0691	01730	01002064	SGNM LAA SGNS+1			0648
0692	01731	03002063	STA SGNS			0649
0693	01732	14000040	IMS CWP			0650
0694	01733	11001675	BRU ICCA			0651
0695	01734	00000000 *		STORE IN EVEN SIDE		0653
0696	01734	00001734	ISE EQU *			0654
0697	01734	00001016	LSL R			0655

1 PAGE 0020 SELECT EXECUTIVE

CATALOG NUMBER 3030158

0698	01735	03202047	STA*	CWPA		0656
0699	01736	02002046	LBA	FISØ		0657
0700	01737	04002044	STB	ICSW		0658
0701	01740	11001747	BRU	ICCC		0659
0702	01741	00000000	*		STORE IN ØDD SIDE	0660
0703	01741	00001741	ISØ	EQU *		0661
0704	01741	05202047	AMA*	CWPA		0662
0705	01742	03202047	STA*	CWPA		0663
0706	01743	14002047	TMS	CWPA		0664
0707	01744	00000033	NØP			0665
0708	01745	01002045	LAA	FISE		0666
0709	01746	03002044	STA	ICSW		0667
0710	01747	14000040	ICCC	TMS	CWP	0668
0711	01750	00000033	NØP			0669
0712	01751	11001675	BRU	ICCA		0670
0713	01752	00000000	*		FILL CONTROL BUFFER WITH NOTHINGS	0671
0714	01752	00001752	ICCX	EQU *		0672
0715	01752	12002000	SPB	CARR		0673
0716	01753	01000216	LAA	ECWB	RESET COMMAND WORD POINTER	0674
0717	01754	03000040	STA	CWP		0675
0718	01755	01001766	LAA	CCIH		0676
0719	01756	12000020	SPB	TBD		0677
0720	01757	01000214	LAA	FCP	SET COMMUTATOR TO CONTROL PROCESSOR	0678
0721	01760	12000022	SPB	TBA		0679
0722	01761	01001767	LAA	FCIH		0680
0723	01762	03001443	STA	CIH+2	BEGIN NEW COMMAND	0681
0724	01763	01002705	LAA	FCP3		0682
0725	01764	03002641	STA	CP+2		0683
0726	01765	11001271	BRU	CØMR		0684
0727	01766	00000000	*			0685
0728	01766	25401441	CCIH	DAC	CIH	0686
0729	01767	25401444	ECIH	DAC	CIH+3	0687
0730	01770	00000000	*			0689
0731	01770	00000000	*		SET CWP TO NEXT PARAMETER	0690
0732	01770	00000000	*			0691
0733	01770	00001770	ICCE	EQU *		0692
0734	01770	01200010	LAA*	CPP		0693

0735	01771	03002047	STA	CWPA	0694
0736	01772	03000040	STA	CWP	0695
0737	01773	14000010	IMS	CPP	0696
0738	01774	01002045	LAA	EISE	0697
0739	01775	03002044	STA	ICSW	0698
0740	01776	00000033	NØP		0699
0741	01777	11001675	BRU	ICCA	0700
0742	02000	00000000	*		0701
0743	02000	00000000	*		0703
0744	02000	00000000	*		0704
0745	02000	00000000	*		0705
0746	02000	00000000	CARR	*** **	0706
0747	02001	01001503	LAA	CSWA	0707
0748	02002	15001504	CMA	CSW5	0708
0749	02003	11002006	BRU	*+3	0709
0750	02004	11002006	BRU	*+2	0710
0751	02005	11202000	BRU*	CARR	0711
0752	02006	12002010	SPB	CRLA	0712
0753	02007	11202000	BRU*	CARR	0713
0754	02010	00000000	*		0714
0755	02010	00000000	CRLA	*** **	0715
0756	02011	02000173	LBA	M3	0716
0757	02012	01001512	LAA	CMØP	0717
0758	02013	03002014	STA	*+1	0718
0759	02014	00172400	MØP*	0	0719
0760	02015	25602030	DAC	CRET+3,1	0720
0761	02016	12000002	SPB	TØM2	0721
0762	02017	00000026	IBS		0722
0763	02020	11002014	BRU	*-4	0723
0764	02021	00000000	*		0724
0765	02021	00000000	*		0725
0766	02021	02002010	LBA	CRLA	0726
0767	02022	00000003	CLA		0727
0768	02023	03002010	STA	CRLA	0728
0769	02024	11400000	BRU	0,1	0729
0770	02025	00000000	*		0730
0771	02025	00000000	*		0732

IF CONTROL DEVICE IS TYPEWRITER  
C/R, LINE ADVANCE, AND DING

ISSUE CARRIAGE RETURN, LINEADVANCE, RING BEL

RESTORE ENTRANCE TO INDICATE NOT IN USE

TABLE OF TYPEWRITER CONSTANTS

1	PAGE	0022	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0772	02025	00000000	FORM 8,8			0733
0773	02025	00106400	CRFT	FDAT	'215,0	0734
0774	02026	00105000		FDAT	'212,0	0735
0775	02027	00103400		FDAT	'207,0	0736
0776	02030	00000254	ICC	DATA	'000254	0737
0777	02031	00000256		DATA	'000256	0738
0778	02032	00000240		DATA	'000240	0739
0779	02033	00000215		DATA	'000215	0740
0780	02034	00000247		DATA	'000247	0741
0781	02035	00000260		DATA	'000260	0742
0782	02036	00000271		DATA	'000271	0743
0783	02037	00000377		DATA	'000377	0744
0784	02040	00000212		DATA	'000212	0745
0785	02041	00000253		DATA	'000253	0746
0786	02042	00000255		DATA	'000255	0747
0787	02043	00000000	ISCP	DATA	0	0748
0788	02044	25401734	ICSW	DAC	ISE	0749
0789	02045	25401734	EISE	DAC	ISE	0750
0790	02046	25401741	EIS0	DAC	IS0	0751
0791	02047	25400041	CWPA	DAC	CWB	0752
0792	02050	00000000	*			0754
0793	02050	00000000	*			0755
0794	02050	00000000	*			0756
0795	02050	00000000	*			0757
0796	02050	00002050	0CTP	EQU	*	0758
0797	02050	14000040		IMS	CWP	0759
0798	02051	01000175		LAA	M1	0760
0799	02052	12002073		SPB	F60	0761
0800	02053	12002141		SPB	DTB	0762
0801	02054	25402123		DAC	0B	0763
0802	02055	11202063		BRU*	SGNS	0764
0803	02056	00000000	*			0765
0804	02056	00000000	*			0766
0805	02056	00002056	FDTB	EQU	*	0767
0806	02056	01000175		LAA	M1	0768
0807	02057	12002073		SPB	F60	0769
0808	02060	12002174		SPB	DTB	0770

DELETE CODE  
LINE FEED

CLEAN UP SWITCH

OCTAL TO BINARY  
FIRST SIX CHAR FROM CWP OR TO NEXT PARAMETER  
CORRECTIONS TO 0CTP

CORRECTIONS TO FDTB



1	PAGE	0023	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0809	02061	25402125	DAC 0B+2			0771
0810	02062	11202063	BRU* SGNS			0772
0811	02063	00000000	*			0773
0812	02063	25402067	SGNS DAC **4			0774
0813	02064	25402066	DAC **2			0775
0814	02065	25402067	DAC **2			0776
0815	02066	00000000	*			0777
0816	02066	00000002	NEG			0778
0817	02067	03202047	STA* CWP			0779
0818	02070	01002065	LAA SGNS+2			0780
0819	02071	03002063	STA SGNS			0781
0820	02072	11001770	BRU ICCE			0782
0821	02073	00000000	*			0784
0822	02073	00000000	F6D *** **		SUBROUTINE TO FORMAT TABLE FOR 0TB OF DTR	0785
0823	02074	03002137	STA FDB+5			0786
0824	02075	02000170	LBA M6			0787
0825	02076	04002131	STB 0CC			0788
0826	02077	00000003	CLA			0789
0827	02100	03402131	STA 0B+6.1			0790
0828	02101	00000026	IBS			0791
0829	02102	11002100	BRU *-2			0792
0830	02103	00000000	*		FIX LENGTH OF INPUT	0793
0831	02103	01200010	LAA* CPP			0794
0832	02104	06000040	SMA CWP			0795
0833	02105	00000033	NOP			0796
0834	02106	00000033	NOP			0797
0835	02107	05002137	AMA FDB+5			0798
0836	02110	00000002	NEG			0799
0837	02111	00000005	TAB			0800
0838	02112	00000000	*			0801
0839	02112	00000000	*		FORMAT FOR 0TB OR DTB	0802
0840	02112	00002112	0CA EQU *			0803
0841	02112	01200040	LAA* CWP			0804
0842	02113	03402131	STA 0B+6.1			0805
0843	02114	14000040	IMS CWP			0806
0844	02115	14002131	IMS 0CC			0807
0845	02116	11002120	BRU **2			0808

1	PAGE	0024	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0846	02117	11002122	BRU	RCR		0809
0847	02120	00000026	IBS			0810
0848	02121	11002112	BRU	ACA		0811
0849	02122	00000000	*		ALL DONE	0812
0850	02122	11202073	RCR	BRU*	F6D	0813
0851	02123	00000000	*		6 WORD BUFFER	0814
0852	02123	00000006	RB	BSS	6	0815
0853	02131	00000000	ACC	***	**	0816
0854	02132	00000005	FDR	BSS	5	0817
0855	02137	00000000	FDC	DATA	0	0818
0856	02140	00002140	FDA	DATA	*	0819
0857	02141	00000000	*		ACTAL (ASCII) TO BINARY	0821
0858	02141	00000000	ATR	***	**	0822
0859	02142	01202141	LAA*	ATR		0823
0860	02143	14002141	IMS	ATR		0824
0861	02144	03002173	STA	ATCT		0825
0862	02145	02000170	LBA	M6		0826
0863	02146	00000003	CLA			0827
0864	02147	03002172	STA	ATMP		0828
0865	02150	01402172	ATRA	LAA	ATI+6,1	PICK UP SHIFT INSTRUCTION
0866	02151	03002154	STA	ATIP		0829
0867	02152	01202173	LAA*	ATCT		0830
0868	02153	00001516	LSL	13	CLEAR OUT ASCII	0831
0869	02154	00001515	ATIP	RSL	13	0832
0870	02155	05002172	AMA	ATMP	MERGE OLD AND NEW	0833
0871	02156	03002172	STA	ATMP		0834
0872	02157	14002173	IMS	ATCT		0835
0873	02160	00000033	NOP			0836
0874	02161	00000026	IBS		ALL DONE	0837
0875	02162	11002150	BRU	ATBA		0838
0876	02163	00000000	*			0839
0877	02163	11202141	BRU*	ATB	YES	0840
0878	02164	00000000	*			0841
0879	02164	00002164	ATI	EQU	*	0842
0880	02164	00000216	LSL	2		0843
0881	02165	00000115	RSL	1		0844
0882	02166	00000415	RSL	4		0845
						0846

0883	02167	00000715	RSL	7		0847
0884	02170	00001215	RSL	10		0848
0885	02171	00001515	RSL	13		0849
0886	02172	00000000	*			0850
0887	02172	00000000	DTMP	DATA	0	0851
0888	02173	00000000	DTCT	DATA	0	0852
0889	02174	00000000	*			0854
0890	02174	00000000	*		DECIMAL TO BINARY	0855
0891	02174	00000000	*			0856
0892	02174	00000000	*	SPB	DTR	0857
0893	02174	00000000	*	DAC	BUFFER WITH 4 RIGHT JUSTIFIED CHARACTERS 4 WORD EACH	0858
0894	02174	00000000	*			0859
0895	02174	00000000	*			0860
0896	02174	00000000	DTR	777	**	0861
0897	02175	04002230	STB	DTSB		0862
0898	02176	01202174	LAA*	DTB		0863
0899	02177	14002174	IMS	DTR		0864
0900	02200	03002227	STA	DTC		0865
0901	02201	00000003	CLA			0866
0902	02202	03002226	STA	TAC		0867
0903	02203	02000173	LBA	M3		0868
0904	02204	01202227	DTR1	LAA*	DTC	0869
0905	02205	00001416	LSL	12		0870
0906	02206	00001415	RSL	12		0871
0907	02207	05002226	AMA	TAC		0872
0908	02210	00000316	LSL	3		0873
0909	02211	03002226	STA	TAC		0874
0910	02212	00000215	RSL	2		0875
0911	02213	05002226	AMA	TAC		0876
0912	02214	03002226	STA	TAC		0877
0913	02215	14002227	IMS	DTC		0878
0914	02216	00000026	IBS			0879
0915	02217	11002204	BRU	DTB1		0880
0916	02220	01202227	LAA*	DTC		0881
0917	02221	00001416	LSL	12		0882
0918	02222	00001415	RSL	12		0883
0919	02223	05002226	AMA	TAC		0884

1	PAGE	0026	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
0920	02224	02002230	LRA	DTSB		0885
0921	02225	11202174	BRU*	DTS		0886
0922	02226	00000000	TAC	DATA	0	0887
0923	02227	00000000	DTC	DATA	0	0888
0924	02230	00000000	DTSB	DATA	0	0889
0925	02231	00000000	*		CLEAR CONTROL INPUT BUFFER	0891
0926	02231	00000000	CCIB	***	**	0892
0927	02232	01000217	LAA	FPPS		0893
0928	02233	03000010	STA	CPP		0894
0929	02234	00000003	CLA			0895
0930	02235	02002242	LBA	M80		0896
0931	02236	03400161	STA	C8IB+80,1		0897
0932	02237	00000026	IRS			0898
0933	02240	11002236	BRU	*-2		0899
0934	02241	11202231	BRU*	CCIB		0900
0935	02242	00000000	*			0901
0936	02242	00177660	M80	DATA	-80	0902
0937	02243	00000000	*		KEYSEARCH SUBROUTINE	0904
0938	02243	00000000	*	WORD 1 AND 2	COMPARISON KEY,	0905
0939	02243	00000000	*	WORD 1 AND 2	COMPARISON KEY WORD 3 ADDRESS TO GO TO ON COM	0906
0940	02243	00000000	*	SPP	KSS	0907
0941	02243	00000000	*	DAC	ADDRESS OF 2 WORD KEY	0908
0942	02243	00000000	*	DAC	ADDRESS OF FIRST WORD IN TABLE	0909
0943	02243	00000000	*	DATA	NUMBER OF ENTRIES IN TABLE	0910
0944	02243	00000000	*		RETURN HERE IF NOTHING COMPARES	0911
0945	02243	00002243	KSS	EQU	*	0912
0946	02243	01200036	LAA*	S8K		0913
0947	02244	03002275	STA	KSSA		0914
0948	02245	14000036	IMS	S8K		0915
0949	02246	02200036	LBA*	S8K		0916
0950	02247	14000036	IMS	S8K		0917
0951	02250	01200036	LAA*	S8K		0918
0952	02251	00000002	NEG			0919
0953	02252	03002276	STA	KSSB		0920
0954	02253	14000036	IMS	S8K		0921
0955	02254	00000000	*			0922
0956	02254	00000000	*		CHECK FIRST 2 CHARACTERS	0923

1	PAGE	0027	SELECT EXECUTIVE	CATALOG NUMBER	303115R	
0957	02254	01400000	KSS1 LAA 0,1			0904
0958	02255	15202275	CMA* KSSA			0905
0959	02256	11002260	BRU *+2			0906
0960	02257	11002264	BRU KSS3	THIS IS IT		0907
0961	02260	00000000	*			0908
0962	02260	16000200	KSS2 AMB 03	GO TO NEXT ENTRY IN THE LIST		0909
0963	02261	14002276	IMS KSSB	ALL ENTRIES CHECKED		0930
0964	02262	11002254	BRU KSS1	NO		0931
0965	02263	11200036	BRU* SBK			0932
0966	02264	00000000	*			0933
0967	02264	00000000	*	CHECK WORD 2		0934
0968	02264	01400001	KSS3 LAA 1,1			0935
0969	02265	14002275	IMS KSSA			0936
0970	02266	15202275	CMA* KSSA			0937
0971	02267	11002271	BRU *+2			0938
0972	02270	11600002	BRU* 2,1			0939
0973	02271	00000000	*			0940
0974	02271	01002275	LAA KSSA			0941
0975	02272	05000175	AMA M1			0942
0976	02273	03002275	STA KSSA			0943
0977	02274	11002260	BRU KSS2			0944
0978	02275	00000000	*			0945
0979	02275	00000000	KSSA *** **			0946
0980	02276	00000000	KSSB *** **			0947
0981	02277	00000000	*			0949
0982	02277	00000000	*	TYP0UT ROUTINE		0950
0983	02277	00000000	* TO CALL			0951
0984	02277	00000000	*			0952
0985	02277	00000000	* SPB S8TY			0953
0986	02277	00000000	* DAC ADDRESS OF FIRST WORD TO BE TYPED			0954
0987	02277	00000000	* DATA WORD COUNT			0955
0988	02277	00000000	* S8TY WILL CONTAIN 0 IF TYPE ROUTINE AVAILABLE			0956
0989	02277	00000000	*			0957
0990	02277	00002277	TYPE EQU *			0958
0991	02277	01002335	LAA STY4			0959
0992	02300	00000022	SAZ			0960
0993	02301	12000002	SPB T8M2			0961

1	PAGE	0028	SELECT EXECUTIVE	CATALOG NUMBER	3030158	
0994	02302	01000026	LAA S8TY	FFB	03/02/68	*B
0995	02303	03002336	STA STY5	FFB	03/02/68	*B
0996	02304	01202336	LAA* STY5	FFB	03/02/68	*B
0997	02305	03002335	STA STY4			
0998	02306	14002336	IMS STY5	FFB	03/02/68	*B
0999	02307	01202336	LAA* STY5	FFB	03/02/68	*B
1000	02310	00000002	NEG			0966
1001	02311	00000005	TAB			0967
1002	02312	14002336	IMS STY5	FFB	03/02/68	*B
1003	02313	00000000 *				0969
1004	02313	01002337	LAA S80P			0970
1005	02314	05000161	AMA TYP			0971
1006	02315	03002320	STA STY2			0972
1007	02316	03002323	STA STY3			0973
1008	02317	01202335	STY1 LAA* STY4			0974
1009	02320	00170000	STY2 A0P 0			0975
1010	02321	12000004	SPB T8M1			0976
1011	02322	00001016	LSL 8			0977
1012	02323	00170000	STY3 A0P 0			0978
1013	02324	12000004	SPB T8M1			0979
1014	02325	14002335	IMS STY4			0980
1015	02326	00000026	IBS			0981
1016	02327	11002317	BRU STY1			0982
1017	02330	02002336	LBA STY5	FFB	03/02/68	*B
1018	02331	00000003	CLA			0984
1019	02332	03000026	STA S8TY			0985
1020	02333	03002335	STA STY4			0986
1021	02334	11400000	BRU 0,1			0987
1022	02335	00000000 *				0988
1023	02335	00000000	STY4 *** **			0989
1024	02336	00000000	STY5 *** **	FFB	03/02/68	*B
1025	02337	00170000	S80P A0P 0			0990
1026	02340	00000000 *				0992
1027	02340	00000000 *				0993
1028	02340	00000000 *				0994
1029	02340	00000000 *				0995
1030	02340	00002340	DMP EQU *			0996

ACTAL DUMP ROUTINE

SET UP FOR COMMUNICATIONS ENTRANCE

1	PAGE	0029	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
1031	02340	01200030	LAA* S80			0997
1032	02341	03002450	STA NDX1			0998
1033	02342	14000030	IMS S80			0999
1034	02343	01200030	LAA* S80			1000
1035	02344	03002452	STA NDX3			1001
1036	02345	14000030	IMS S80			1002
1037	02346	12002363	SPB DMPY			1003
1038	02347	02000030	LBA S80			1004
1039	02350	00000003	CLA			1005
1040	02351	03000030	STA S80			1006
1041	02352	11400000	RRU 0,1			1007
1042	02353	00000000 *				1009
1043	02353	00000000 *		SET UP FOR DIRECTIVE CALL		1010
1044	02353	00002353 DUMP	FQU *			1011
1045	02353	01200011	LAA* C81			1012
1046	02354	03002360	STA **4			1013
1047	02355	01200012	LAA* C82			1014
1048	02356	03002361	STA **3			1015
1049	02357	12000030	SPB S80			1016
1050	02360	00000000	*** **			1017
1051	02361	00000000	*** **			1018
1052	02362	11000024	RRU C8R			1019
1053	02363	00000000 *				1020
1054	02363	00000000 *		MAIN DUMP ROUTINE		1021
1055	02363	00000000 DMPY	*** **			1022
1056	02364	12002010 DMP1	SPB CRLA			1023
1057	02365	01002414	LAA DMP5	SPACES		1024
1058	02366	03002460	STA MX19			1025
1059	02367	01002454	LAA P4			1026
1060	02370	02002450	LBA NDX1			1027
1061	02371	12002415	SPB DMPX			1028
1062	02372	01002453	LAA M8			1029
1063	02373	03002456	STA LPX			1030
1064	02374	01002454 DMP2	LAA P4			1031
1065	02375	02202450	LBA* NDX1			1032
1066	02376	12002415	SPB DMPX			1033
1067	02377	01002450	LAA NDX1			1034

1	PAGE	0030	SELECT EXECUTIVE	CATALOG NUMBER	303015R	
1068	02400	06002452	SMA	NDX3		1035
1069	02401	00000000 *				1036
1070	02401	00000023	SAN			1037
1071	02402	11002407	BRU	DMP3		1038
1072	02403	14002450	IMS	NDX1		1039
1073	02404	14002456	IMS	LPX	CHECK FOR END OF LINE	1040
1074	02405	11002374	BRU	DMP2		1041
1075	02406	11002364	BRU	DMP1		1042
1076	02407	00000000 *				1043
1077	02407	12000026	DMP3	SPB	S8TY	1044
1078	02410	00002413	DATA	DMP4.1		1045
1078	02411	00000001				
1079	02412	11202363	BRU*	DMPY		1046
1080	02413	00000000 *				1047
1081	02413	00105215	DMP4	DATA	*105215	1048
1082	02414	00120377	DMP5	DATA	*120377	1049
1083	02415	00000000 *				1050
1084	02415	00000000 *				1052
1085	02415	00000000	DMPX	***	**	1053
1086	02416	03002424	STA	DMP6		1054
1087	02417	01002423	LAA	EX19		1055
1088	02420	05000176	AMA	P1		1056
1089	02421	12002426	SPB	FRMX		1057
1090	02422	12000026	SPB	S8TY		1058
1091	02423	25402460	EX19	DAC	MX19	1059
1092	02424	00000000	DMP6	***	**	1060
1093	02425	11202415	BRU*	DMPX		1061
1094	02426	00000000 *				1062
1095	02426	00000000	FRMX	***	**	1063
1096	02427	03002451	STA	NDX2		1064
1097	02430	01000173	LAA	M3		1065
1098	02431	03002457	STA	LPX1		1066
1099	02432	00000003	CLA			1067
1100	02433	00000113	FLL	1		1068
1101	02434	11002436	BRU	**+2		1069
1102	02435	00000000 *				1070
1103	02435	00000313	FRM1	FLL	3	1071



1	PAGE	0031	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
1104	02436	00000516	LSL	5		1072
1105	02437	00000313	FLL	3		1073
1106	02440	05002447	AMA	FRDT		1074
1107	02441	03202451	STA*	NDX2		1075
1108	02442	00000003	CLA			1076
1109	02443	14002451	IMS	NDX2		1077
1110	02444	14002457	IMS	LPX1		1078
1111	02445	11002435	BRU	FRM1		1079
1112	02446	11202426	BRU*	FRMX		1080
1113	02447	00000000	*			1082
1114	02447	00130260	FRDT	DATA	*130260	1083
1115	02450	00000000	NDX1	DATA	0	1084
1116	02451	00000000	NDX2	DATA	0	1085
1117	02452	00000000	NDX3	***	**	1086
1118	02453	00177770	M8	DATA	-8	1087
1119	02454	00000004	P4	DATA	4	1088
1120	02455	00000005	P5	DATA	5	1089
1121	02456	00000000	LPX	***	**	1090
1122	02457	00000000	LPX1	***	**	1091
1123	02460	00120240	MX19	DATA	' '	1092
1123	02461	00120240				
1123	02462	00120240				
1123	02463	00120240				
1123	02464	00120240				
1124	02465	00105215	DATA	*105215		1093
1125	02466	00000000	*	ASSIGN PROCESSOR		1095
1126	02466	00000000	*			1096
1127	02466	00000000	*	CAUSES UNIT ASSIGNMENTS TO BE MADE IN I/O		1097
1128	02466	00000000	*			1098
1129	02466	00000000	*	ASSIGN CONTROL TYPEWRITER		1099
1130	02466	00000000	*	ASSI CONT TYPW		1100
1131	02466	00000000	*	ASSI TYPW 1		1101
1132	02466	00000000	*	ASSI FAST PAPERTAPE 2		1102
1133	02466	00000000	*	ASSI CONT FAST		1103
1134	02466	00000000	*	ASSI CONT ASR		1104
1135	02466	00000000	*			1105
1136	02466	00000000	*	ANY UNDEFINED CONTROL WORD IN FIRST PARAMETER WILL CAUSE		1106

1	PAGE	0032	SELECT EXECUTIVE	CATALOG NUMBER	3030159	
1137	02466	00000000	*	THE PROGRAM TO BRU \$ASGN IN THE TEST PROGRAM		1107
1138	02466	00000000	*	EXAMPLE:		1108
1139	02466	00000000	*			1109
1140	02466	00000000	*	ASSI CRT 14		1110
1141	02466	00000000	*	ASSI DISC '16		1111
1142	02466	00000000	*			1112
1143	02466	00002466	ASSI EQU *			1113
1144	02466	01000011	LAA C81	PICKUP ADDRESS OF FIRST PARAMETER		1114
1145	02467	03002471	STA **2			1115
1146	02470	00000000	*			1116
1147	02470	12000036	SPB SBK			1117
1148	02471	00000000	*** **			1118
1149	02472	25402475	DAC APW			1119
1150	02473	00000003	DATA 3			1120
1151	02474	00000000	*	NOT AN EXECUTIVE ASSIGNMENT		1121
1152	02474	44500000	BRU \$ASGN	GO TO TEST PROGRAM		1122
1153	02475	00000000	*			1124
1154	02475	00000000	*	EXEC ASSIGN PARAMETER WORDS		1125
1155	02475	00000000	*			1126
1156	02475	00002475	APW EQU *			1127
1157	02475	00141717	DATA 'CONT'			1128
1157	02476	00147324				
1158	02477	25402510	DAC AC0N			1129
1159	02500	00152331	DATA 'TYPE'			1130
1159	02501	00150305				
1160	02502	25402560	DAC TYPA			1131
1161	02503	00143301	DATA 'FAST'			1132
1161	02504	00151724				
1162	02505	25402551	DAC PTA			1133
1163	02506	25402506	EEAP DAC *			1134
1164	02507	25402475	EAPW DAC APW			1135
1165	02510	00000000	*	ASSIGN CONTROL INPUT DEVICE		1137
1166	02510	00000000	*			1138
1167	02510	00002510	AC0N EQU *			1139
1168	02510	01000012	LAA C82			1140
1169	02511	03002513	STA **2			1141
1170	02512	00000000	*			1142

1	PAGE	0033	SELECT EXECUTIVE	CATALOG NUMBER	303015B	
1171	02512	12000036	SPB SBK			1143
1172	02513	00000000	*** **			1144
1173	02514	25402521	DAC ACLS			1145
1174	02515	00000003	DATA 3			1146
1175	02516	00000000	HLT			1147
1176	02517	00000033	NOP			1148
1177	02520	00000000	*			1149
1178	02520	00000000	*	ILLEGAL ASSIGNMENT		1150
1179	02520	00000500	*			1151
1180	02520	11002673	BRU CPR			1152
1181	02521	00000000	*			1154
1182	02521	00000000	*	ASSIGN CONTROL LIST		1155
1183	02521	00000000	*			1156
1184	02521	00002521	ACLS EQU *			1157
1185	02521	00152331	DATA 'TYPE'			1158
1185	02522	00150305				
1186	02523	25402532	DAC ATYP			1159
1187	02524	00143301	DATA 'FAST'			1160
1187	02525	00151724				
1188	02526	25402537	DAC APT			1161
1189	02527	00140723	DATA 'AS'			1162
1190	02530	00000000	FORM 8.8			1163
1191	02530	00151000	FDAT 'R',0			1164
1192	02531	25402544	DAC AASR			1165
1193	02532	00000000	*			1166
1194	02532	00000000	*	ASSIGN TYPWRITER TO CONTROL		1167
1195	02532	00000000	*			1168
1196	02532	00002532	ATYP EQU *			1169
1197	02532	01001446	LAA CSW1			1170
1198	02533	03001445	STA CSW			1171
1199	02534	01000161	LAA TYP			1172
1200	02535	03000162	STA CON			1173
1201	02536	11000024	BRU CBR			1174
1202	02537	00000000	*			1175
1203	02537	00000000	*	ASSIGN PAPER TAPE TO CONTROL		1176
1204	02537	00000000	*			1177
1205	02537	00002537	APT EQU *			1178

1206	02537	01001450	LAA	CSW3			1179
1207	02540	03001445	STA	CSW			1180
1208	02541	01000163	LAA	HPT			1181
1209	02542	03000162	STA	C0N			1182
1210	02543	11000024	BRU	C8R			1183
1211	02544	00000000	*			ASSIGN ASR TO CONTROL	1185
1212	02544	00000000	*				1186
1213	02544	00002544	AASR	EQU	*		1187
1214	02544	01001447	LAA	CSW2			1188
1215	02545	03001445	STA	CSW			1189
1216	02546	01000161	LAA	TYP			1190
1217	02547	03000162	STA	C0N			1191
1218	02550	11000024	BRU	C8R			1192
1219	02551	00000000	*				1193
1220	02551	00000000	*			ASSIGN UNIT NUMBER TO HIGH SPEED PAPER TAPE	1194
1221	02551	00000000	*				1195
1222	02551	00002551	PTA	EQU	*		1196
1223	02551	01200012	LAA*	C82			1197
1224	02552	15000202	CMA	P63			1198
1225	02553	11002556	BRU	PTB			1199
1226	02554	00000000	HLT				1200
1227	02555	00000000	*				1201
1228	02555	00000000	*			UNIT NUMBER TOO HIGH	1202
1229	02555	00000000	*				1203
1230	02555	11000024	BRU	C8R			1204
1231	02556	03000163	PTB	STA	HPT		1205
1232	02557	11000024	BRU	C8R			1206
1233	02560	00000000	*				1207
1234	02560	00000000	*			ASSIGN UNIT NUMBER TO TYPEWRITER	1208
1235	02560	00000000	*				1209
1236	02560	00002560	TYPB	EQU	*		1210
1237	02560	01200012	LAA*	C82			1211
1238	02561	15000202	CMA	P63			1212
1239	02562	00000033	N0P				1213
1240	02563	11002566	BRU	TYPB			1214
1241	02564	00000000	HLT				1215
1242	02565	00000000	*				1216

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1243	02565	00000000	*	UNIT NUMBER TOO LARGE		1217
1244	02565	00000000	*			1218
1245	02565	11000024	BRU	CBR		1219
1246	02566	03000161	TYPB	STA	TYP	1220
1247	02567	11000024	BRU	CBR		1221
1248	02570	00000000	*	MODIFY LOCATION, ENTRY		1223
1249	02570	00000000	*			1224
1250	02570	00002570	MODI	EQU	*	1225
1251	02570	02200011	LBA*	C81		1226
1252	02571	01200012	LAA*	C82		1227
1253	02572	03400000	STA	C,1		1228
1254	02573	11000024	BRU	CBR		1229
1255	02574	00000000	*			1230
1256	02574	00002574	SEIE	EQU	*	1231
1257	02574	11000001	BRU	C81		1232
1258	02575	00000000	*	SET SENSE SWITCHES		1234
1259	02575	00002575	SET	EQU	*	1235
1260	02575	01002620	LAA	SSW1		1236
1261	02576	03002617	STA	SSW		1237
1262	02577	01200011	LAA*	C81		1238
1263	02600	00000022	SAZ			1239
1264	02601	11002607	BRU	SET2		1240
1265	02602	01000205	LAA	RO		1241
1266	02603	02002625	LBA	STEM		1242
1267	02604	00000030	ORA			1243
1268	02605	03000032	SET1	STA	S8SS	1244
1269	02606	11000024	BRU	CBR		1245
1270	02607	00000000	*	GET CORRECT BIT INTO A		1246
1271	02607	00000002	SET2	NEG		1247
1272	02610	00000005	TAB			1248
1273	02611	01000205	LAA	RO		1249
1274	02612	00000115	RSL	1		1250
1275	02613	00000026	IRS			1251
1276	02614	11002612	BRU	*-2		1252
1277	02615	02002625	LBA	STEM		1253
1278	02616	00000000	*	SET OR RESET0		1254
1279	02616	11202617	BRU*	SSW		1255

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1280	02617	00000000	SSW *** **			1256
1281	02620	25402622	SSW1 DAC SET3		SET	1257
1282	02621	25402631	SSW2 DAC RES1		RESET	1258
1283	02622	00000000	*			1259
1284	02622	00000000	*		TURN BIT ON	1260
1285	02622	00000030	SET3 0BA			1261
1286	02623	03002625	STA STEM			1262
1287	02624	11000024	BRU CBR			1263
1288	02625	00000000	STEM *** **			1264
1289	02626	00000000	*		PROCESS RESET STATEMENT	1266
1290	02626	00000000	*			1267
1291	02626	00002626	RESE EQU *			1268
1292	02626	01002621	LAA SSW2			1269
1293	02627	03002617	STA SSW			1270
1294	02630	11002577	BRU SET+2			1271
1295	02631	00000000	*		TURN BIT OFF	1272
1296	02631	00000002	RES1 NEG			1273
1297	02632	05000175	AMA M1			1274
1298	02633	00000027	ABA			1275
1299	02634	11002623	BRU SET3+1			1276
1300	02635	00000000	*			1277
1301	02635	00000000	*		PROCESS HALT	1278
1302	02635	00002635	HALT EQU *			1279
1303	02635	00000000	HLT			1280
1304	02636	11000024	BRU CBR			1281
1305	02637	00000000	CP DATA 0			1283
1306	02640	00000000	DATA 0			1284
1307	02641	25402642	DAC **+1			1285
1308	02642	00000000	*			1286
1309	02642	02002706	LBA FLIS			1287
1310	02643	01400000	CPS LAA 0,1		SET X TO KEYWORD LIST	1288
1311	02644	15000041	CMA CWR		IS THIS FIRST HALF OF KEYWORD	1289
1312	02645	11002647	BRU **+2		NO	1290
1313	02646	11002664	BRU CPS2		YES	1291
1314	02647	16000200	CPS1 AMB P3			1292
1315	02650	00000004	TBA			1293
1316	02651	46500000	CMA FELL			1294

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1317	02652	11002643	BRU	CPS		1295
1318	02653	12002010	SPB	CRLA		1296
1319	02654	12000026	SPB	S8TY		1297
1320	02655	25402661	DAC	CPEM		1298
1321	02656	00000002	DATA	?		1299
1322	02657	12002010	SPB	CRLA		1300
1323	02660	00000000 *				1301
1324	02660	11000024	BRU	C8R		1302
1325	02661	00000000 *				1303
1326	02661	00141727	CPEM	DATA	'CW'	1304
1327	02662	00000000	FORM	8,8		1305
1328	02662	00142607	FDAT	'EE',	'207	1306
1329	02663	11001444	BRU	CIH+3		1308
1330	02664	01400001	CPS2	LAA	1,1	1309
1331	02665	15000042	CMA	CWB+1	TRY SECOND WORD	1310
1332	02666	11002647	BRU	CPS1		1311
1333	02667	11002671	BRU	*+2		1312
1334	02670	11002647	BRU	CPS1		1313
1335	02671	00000000 *				1314
1336	02671	02400002	LBA	2,1		1315
1337	02672	11400000	BRU	0,1		1316
1338	02673	00000000 *				1317
1339	02673	01002705	CPR	LAA	ECP3	1318
1340	02674	03002641	STA	CP+2		1319
1341	02675	01000175	LAA	M1		1320
1342	02676	03000017	STA	S8SN		1321
1343	02677	12002231	SPB	CCTB		1322
1344	02700	01000214	LAA	FCP		1323
1345	02701	12000020	SPB	T8D		1324
1346	02702	01001766	LAA	CCTH		1325
1347	02703	12000022	SPB	T8A		1326
1348	02704	11000000	BRU	F8R		1327
1349	02705	00000000 *				1328
1350	02705	25402642	ECP3	DAC	CP+3	1329
1351	02706	25402753	ELIS	DAC	LIS	1330
1352	02707	00000000 *				1332
1353	02707	00000000 *				1333

KEYWORD LIST

1354	02707	00000000	*				1334
1355	02707	00000000	*	WORDS 1+2	KEYWORD		1335
1356	02707	00000000	*	WORD 3	ADDRESS OF KEYED ROUTINE		1336
1357	02707	00000000	*				1337
1358	02753	60002753		ORG 12753			1338
1359	02753	00002753	LIS	EQU *			1339
1360	02753	00000000	*		SELECT		1340
1361	02753	00151705		DATA 'SELE'			1341
1361	02754	00146305					
1362	02755	25402574		DAC SELE			1342
1363	02756	00000000	*		DUMP		1343
1364	02756	00142325		DATA 'DUMP'			1344
1364	02757	00146720					
1365	02760	25402353		DAC DUMP			1345
1366	02761	00000000	*		ASSIGN		1346
1367	02761	00140723		DATA 'ASSI'			1347
1367	02762	00151711					
1368	02763	25402466		DAC ASSI			1348
1369	02764	00000000	*		MODIFY		1349
1370	02764	00146717		DATA 'MODI'			1350
1370	02765	00142311					
1371	02766	25402570		DAC MODI			1351
1372	02767	00000000	*		SET SENSE SWITCH		1352
1373	02767	00000000		FORM 8,8			1353
1374	02767	00151705		DATA 'SE'			1354
1375	02770	00152000		FDAT 'T',0			1355
1376	02771	25402575		DAC SET			1356
1377	02772	00000000	*		RESET SENSE SWITCH		1357
1378	02772	00151305		DATA 'RESE'			1358
1378	02773	00151705					
1379	02774	25402626		DAC RESE			1359
1380	02775	00000000	*				1360
1381	02775	00144301		DATA 'HALT'			1361
1381	02776	00146324					
1382	02777	25402635		DAC HALT			1362
1383	03000	00000000	*				1363
1384	03000	60401200		END STRT			1364



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ERRORS 0000 00000

SELECT EXECUTIVE

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