UNISYS

A Series Documentation

Library Overview

Release 3.9.0

September 1991

Priced Item

U S America
8600 0361-000

UNISYS

A Series Documentation

Library Overview

Release 3.9.0 September 1991

U S America
Priced Item 8600 0361–000

The names, places, and/or events used in this publication are not intended to correspond to any individual, group, or association existing, living, or otherwise. Any similarity or likeness of the names, places, and/or events with the names of any individual, living or otherwise, or that of any group or association is purely coincidental and unintentional.

NO WARRANTIES OF ANY NATURE ARE EXTENDED BY THE DOCUMENT. Any product and related material disclosed herein are only furnished pursuant and subject to the terms and conditions of a duly executed Program Product License or Agreement to purchase or lease equipment. The only warranties made by Unisys, if any, with respect to the products described in this document are set forth in such License or Agreement. Unisys cannot accept any financial or other responsibility that may be the result of your use of the information in this document or software material, including direct, indirect, special or consequential damages.

You should be very careful to ensure that the use of this information and/or software material complies with the laws, rules, and regulations of the jurisdictions with respect to which it is used.

The information contained herein is subject to change without notice. Revisions may be issued to advise of such changes and/or additions.

Correspondence regarding this publication may be forwarded using the Product Information card at the back of the manual, or may be addressed directly to Unisys, Product Information, 25725 Jeronimo Road, Mission Viejo, CA 92691.

Page Status

Page	Issue
iii	–000
iv	Blank
v through xvii	–000
xviii	Blank
xix	–000
xx	Blank
xxi	–000
xxii	Blank
1–1 through 1–3	–000
1–4	Blank
2–1 through 2–14	–000
3–1 through 3–41	–000
3–42	Blank
4–1 through 4–45	–000
4–46	Blank
5–1 through 5–48	–000
Glossary–1 through Glossary–15	–000
Glossary–16	Blank
Index–1 through Index–11	–000
Index–12	Blank

Unisys uses an 11-digit document numbering system. The suffix of the document number (1234 5678–*xyz*) indicates the document level. The first digit of the suffix (*x*) designates a revision level; the second digit (*y*) designates an update level. For example, the first release of a document has a suffix of –000. A suffix of –130 designates the third update to revision 1. The third digit (*z*) is used to indicate an errata for a particular level and is not reflected in the page status summary.

About This Overview

Purpose

The *A Series Documentation Library Overview* introduces you to all the system and environmental software documentation that is produced for the A Series systems.

Scope

The *Documentation Library Overview* includes the software documentation that is produced for both system software and environmental software. It does not refer to hardware documentation, nor does it include applications programs that Unisys sells for use on A Series systems.

Audience

The audience for this overview consists of everyone who uses, or is interested in, the A Series systems. This includes systems programmers, system operators, application programmers, end users, and prospective A Series customers.

How to Use This Overview

The *Documentation Library Overview* is composed of five sections. You should see the first section for a general overview of the naming conventions for A Series documents. Section 2 describes the three primary sources of information about the A Series systems. This section should be read by all new A Series users.

Sections 3, 4, and 5 assist you in finding the proper documents for your particular needs. Use Section 3 as an index to the functional areas of the A Series systems, and the documentation that supports these functions. Use Section 4 as an index to the products, features, and utilities of the A Series systems, and the documents that provide information about these items. Use Section 5 as an alphabetic listing of A Series documents and other documents that are relevant to A Series operations.

Organization

The following paragraphs describe the contents of each section.

Section 1. Selecting the Proper Documentation

This section describes the naming convention used for the A Series documents. It also describes the methods for ordering documentation.

Section 2. Guides to A Series Documentation

This section describes the three elementary sources of information about A Series software documentation. It also describes online documentation, help text, and tutorials.

Section 3. Documentation Listed by Function

This section provides the major functional areas as a general reference point. These major areas are then broken down into subtopics that enable you to find the functional area in which you need information. Each subtopic then lists the titles of the documents where information on that function is found.

This section can be particularly useful when you need information on a topic such as system security that is located in various documents in the A Series library.

Section 4. Documentation Listed by Product, Feature, or Utility

This section lists the A Series system and environmental software products, major features, and utilities in alphabetical order and refers to the documents that are related to the specific product, feature, or utility.

Section 5. Document Descriptions

This section lists the A Series documents, and some other documents that are relevant, by their full title in alphabetical order. It gives the document number and a description of the document and how it is used.

In addition, this overview contains a glossary and an index.

Related Product Information

A Series Systems Functional Overview (form 8600 0353)

This manual presents an overview of the A Series systems and serves as a central source of information for these systems. This overview is written for both new and experienced users of A Series systems, and for anyone wanting an introduction to these systems.

A Series Software Documents Master Index (form 8600 1542)

This manual provides a convenient directory of information contained in all A Series software documentation. This manual is written for anyone who uses A Series software documentation.

Contents

Section 4. Documentation Listed by Product, Feature, or Utility

Section 5. Document Descriptions

Figures

Tables

Section 1
Selecting the Proper Documentation

To use your Unisys A Series system effectively, you must understand the system and its related software products, major features, and utilities. To use these software products, you must have the proper user documentation. This section describes the naming conventions that are used for the Unisys A Series documents and the process for ordering documents.

Document Titling Conventions

Each A Series document is named according to the naming convention that is described in the following paragraphs.

The full title of a document is its proper name. This name is used in the first reference to it in any document. When ordering a document, you should use its full title. The full title of each document can consist of up to four components:

- Major product
- Software product
- Universal task or tasks
- Document type

The following paragraphs explain these components.

Major Product

In most cases, *major product* refers to the hardware. In the documents that are referred to in this manual, the major product is the A Series system. There are, however, exceptions to this convention; some software products are used as the major product. Examples of such software are the BTOS™, LINC™II, and REPORTER III products.

Software Product

Software product refers to the system or environmental software product that is associated with the major product, for example, COBOL, Data Management System II (DMSII), or Menu-Assisted Resource Control (MARC). The software product can also refer to any part of a software product, for example, system, system security, or system software.

BTOS and LINC are trademarks of Unisys Corporation.

Universal Task

Universal task refers to the primary task, or tasks, that are described in the document. While the title can include more than one task, such as the *A Series Disk Subsystem Administration and Operations Guide*, the title might not include all the tasks covered in the document.

Not all documents have a universal task as part of the title. Capabilities manuals, user's guides, and technical and functional overviews are examples of documents that do not use a universal task in the title.

Document Type

The A Series documentation library contains the following types of documents.

Guide

A guide normally contains step-by-step procedures for performing the task or tasks defined in the title.

Reference Manual

A reference manual is written for those who are familiar with the product and are looking for specific information. A reference manual is normally organized alphabetically by topic to enable quick access.

Overview

Overview documents include the following types:

- An evaluation that summarizes product capabilities and benefits
- A technical introduction to a product
- A library overview
- A functional introduction to a product

Reference Card

A reference card contains condensed reference information placed on a card for quick retrieval by an experienced product user.

How to Order Documentation

The printed manuals listed in Section 5, "Document Descriptions," are available for purchase. The ordering procedure depends on whether you are a domestic (United States) or international customer.

Domestic (United States) Customers

You can order manuals on an individual order basis and on an ongoing, subscription basis.

One-Time Order

If you order on an individual order basis, you are requesting a one-time-only shipment of the ordered manuals. To order any manuals, use order form 3020003, which can be obtained from the Unisys Publication Distribution Center or your Unisys representative.

Customer Subscription Service

Ordering on a subscription basis means you are requesting the specified documents and automatic updates of both the Publications Catalog and the manuals. You specify which manuals should be automatically updated when you request Customer Subscription Service. Use the order form 3028147 to request this service.

Publications Catalog

A catalog, *Customer Technical Publications*, form 3937 8625, is available to all customers free of charge from a Unisys representative or from the Publication Distribution Center. The catalog contains complete instructions on filling out the necessary publication order forms.

Orders for manuals and subscriptions can be made by mail, toll-free telephone, or fax:

Mail: Unisys Corporation
Unisys Direct
P.O. Box 23675
Rochester, NY 14692

Telephone: 800-448-1424

Fax: 716-272-6671

International Customers

You can place orders with your local branch office, subsidiary, or distributor.

Section 2
Guides to A Series Documentation

Besides this manual, information about A Series documents is available from three sources:

- *A Series Systems Functional Overview*
- *A Series Software Documents Master Index*
- Online Overview of Documentation

If you are new to A Series systems, the first A Series document you should read is the *A Series Systems Functional Overview*. If you want to locate specific information about particular topics, use the *A Series Software Documents Master Index* as the starting point. The Online Documentation Overview is a guide to A Series documentation similar to this manual. You can access it from the TEACH selection on the Menu-Assisted Resource Control (MARC) menu on your system.

These three sources for information about A Series documentation are described in this section.

A Series Systems Functional Overview

The *A Series Systems Functional Overview* presents an overview of A Series systems and is a central source of information about the systems. It gives you the information you need to determine which A Series system, and related system and environmental software, meets your specific needs and helps you achieve maximum productivity.

If you are a new A Series system customer, are considering acquiring a system, or just want a general introduction to A Series systems, then you should read this manual. No prior knowledge of Unisys systems is needed to understand the information in this manual, but you should have a grasp of elementary computer concepts.

The manual is divided into two Parts:

- Part I describes the basic features of the system and of the A Series architecture. It also describes the products available on the A Series systems in functional areas such as database management, transaction management, program development, operational interface, basic system management, data communications (data comm) networks, and system monitoring and security.
- Part II describes the support services that are available, such as customer education, professional services, hardware and software product support, and the various user groups available for peer support. This part also describes the Unisys A Series system updating procedures. This includes new hardware, software, and application releases.

This manual also lists documents you can read for further information about each of the topics discussed.

A Series Software Documents Master Index

The *A Series Software Documents Master Index* provides a directory of the information contained in most of the software documents for the Unisys A Series systems. You can use this index as a starting point for locating information about specific topics that are indexed in the A Series manuals.

The *A Series Software Documents Master Index* is a compilation of all the first-level entries of the individual indexes from the Unisys A Series software documents listed in its bibliography. Each entry in the index gives the shortened title for each document in which that entry can be found. You can look up a specific topic in the *A Series Software Documents Master Index* and be directed to all the documents that contain index information about that subject.

The *A Series Software Documents Master Index* does not include page numbers for each index entry. It is intended to direct you to the documents containing information about the indexed topic, but not to the specific pages within a document. When you want to quickly locate the various sources of information about a specific topic without having to search individual documents, use the *A Series Software Documents Master Index.*

Online Overview of Documentation

The overview of A Series documentation is also available as online help text. You can access the the online overview from the MARC Teach menu. (Refer to the *A Series Menu-Assisted Resource Control (MARC) Operations Guide* for a description of how to access the Teach Menu.)

You can find documents in three ways in the online overview: by function; by product, feature, and utility; or by a search through an alphabetical list of documents. Figure 2–1 shows a diagram of the screens and the paths you can follow to find the proper documents.

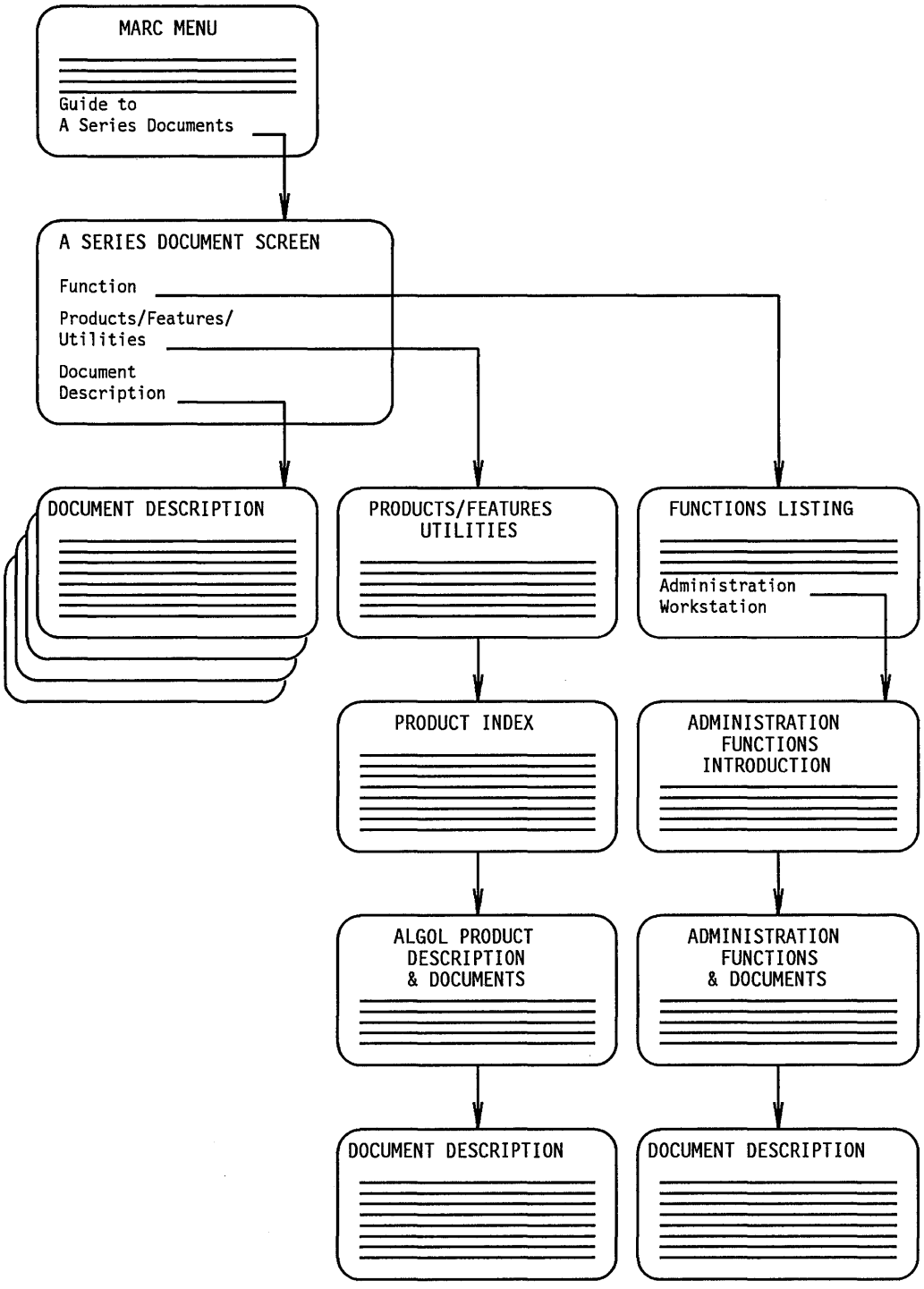


Figure 2–1. A Series Online Documentation Library Overview

Finding the Proper Documents

To display the online overview, from the MARC Teach Menu, you select the DOC option. The screen shown in Figure 2–2 is displayed.

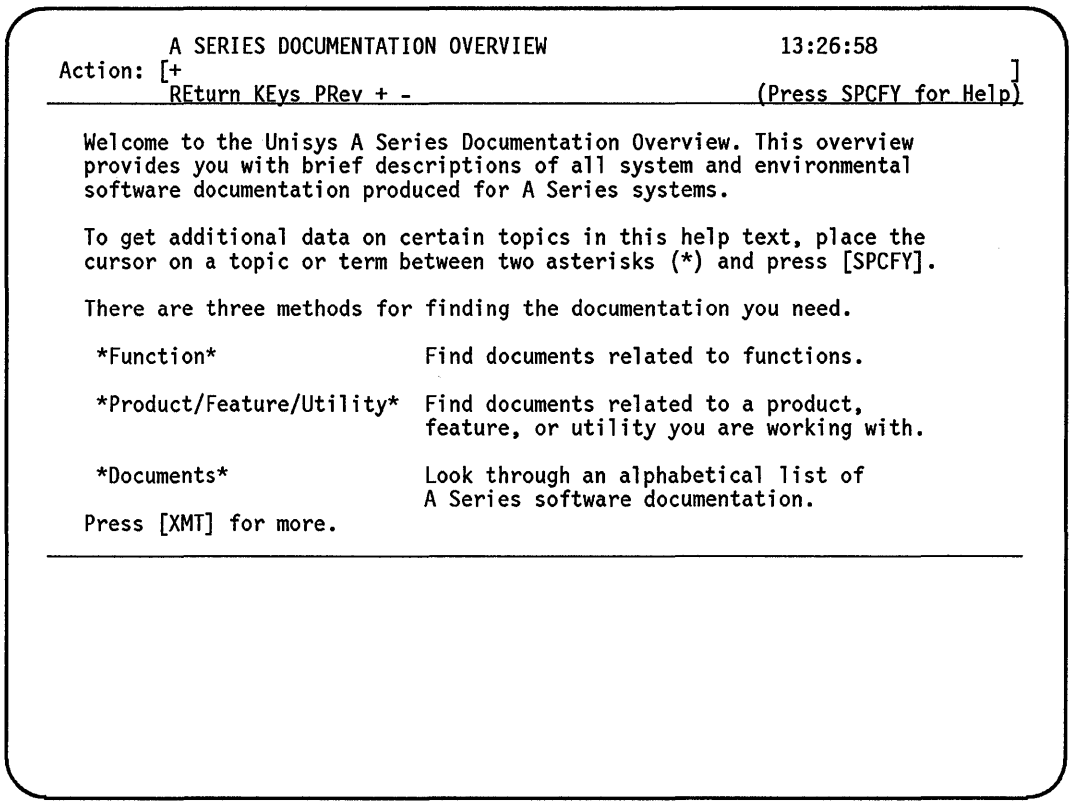


Figure 2–2. A Series Documentation Overview Screen

To select the documentation search by *Function*, *Product/Feature/Utility*, or *Documents*, use the arrow keys to move the cursor between the asterisks (*) of one of these methods and press the specify key.

You can move through the screens of the Online Overview of Documentation in several ways. To move backward and forward, enter commands in the Action field of the screen. A plus sign (+) advances one screen. A minus sign (–) or *PR* moves backward one screen. To advance several screens or move backwards several screens, enter the plus (+) or minus (–) sign followed by the number of screens and the letter p. For example, *+3p* moves three pages or screens ahead.

To return to the MARC Teach menu, enter RE in the Action Field and press the transmit key.

Finding the Manuals by Functional Area

To find documents about a function, select the Function option on the A Series Documentation Overview screen shown in Figure 2–2. You select the Function option by moving the cursor between the asterisks (*) on **Function** and pressing the specify key. The screen shown in Figure 2–3 is displayed.

```
        A SERIES DOCUMENTATION OVERVIEW                  13:20:34
Action: [+                                                       ]
        REturn KEys PRev + -                        (Press SPCFY for Help)

  FUNCTIONS  (Place the cursor on a term between two asterisks (*) and
  =========  press [SPCFY] for more information.)

                                    |---> *Disk subsystem operations* and
    +--------------------+          |        administration
--->|  *Administration*  |--->|---> *Memory* subsystem administration
    +--------------------+          |---> *Overall system administration*
                                    |---> *Security administration*

                                    |---> *Configuring BNA Version 1*
                                    |---> *Configuring BNA Version 2*
    +--------------------+          |---> *Configuring CANDE*
--->|  *Configuration*   |--->|---> *Configuring COMS*
    +--------------------+          |---> *Configuring data comm*
                                    |---> *Grouping hardware resources*
    V
  V    Press [XMT] for more.
```

Figure 2–3. A Series System Functions Screen

The functions are arranged alphabetically. You press the transmit key to page through the screens to display the function that you want. Use the arrow keys to move the cursor to the function and press the specify key to display the information. For example, you can select *Administration* from this screen.

If you select *Administration* from the Functions screen, the Administration introduction screen is displayed, as shown in Figure 2–4. This screen lists various tasks associated with system administration.

```
        ADMINISTRATION                                    13:29:31
Action: [+                                                        ]
        REturn KEys PRev + -                      (Press SPCFY for Help)

                              ADMINISTRATION

   The administration function pertains to the following tasks associated
   with managing and improving system throughput and providing a
   consistently secure, productive environment for an A Series system:

      *Disk subsystem operations* and administration
      *Memory* subsystem administration
      *Security administration*
      *Overall system administration*

   For a list of manuals about each task, place the cursor on a task name
   between two asterisks (*) and press [SPCFY].  You will then get a screen
   that shows you briefly described manuals associated with the task you
   selected.  For a more complete description of a manual, place the cursor
   on the manual title between two asterisks (*) and press [SPCFY].
```

Figure 2–4. Administration Introduction Screen

To display a list of manuals concerning overall system administration, select *Overall system administration* on this screen.

If you select the *Overall system administration* task, the screen shown in Figure 2–5 is displayed. You can select the *System Administration Guide* from this screen.

```
        ADMINISTRATION                                    13:40:36
Action: [+                                                        ]
        REturn KEys PRev + -                        (Press SPCFY for Help)

  OVERALL SYSTEM ADMINISTRATION   (For the complete description of a
  ============================    manual, place the cursor on a title
     |                            between two asterisks (*) and press
     |                            [SPCFY].)
     |
     +---> *System Administration Guide*

           Provides an extensive introduction to the issues involved
           in A Series system administration.
```

Figure 2–5. Administrative Functions and Documents Screen

If you select the *System Administration Guide*, the screen shown in Figure 2–6 is displayed. This screen gives you the full title of the manual, the form number to use when ordering it, and an overview of the contents.

```
        DOCUMENTS                                          13:37:Ø1
Action: [+                                                         ]
        REturn KEys PRev + -                        (Press SPCFY for Help)

                A Series System Administration Guide

  Form number:  86ØØ Ø437

  This guide provides the reader with information required to make
  decisions about system configuration, peripheral configuration,
  file management, resource use and other matters related to system
  administration.  This guide is written for users with some, little, or
  no A Series experience who are responsible for making decisions about
  system administration.
```

Figure 2–6. Documents Screen

Finding the Manuals by Product, Feature, or Utility

If you select the Products/Feature/Utility option from the A Series Documentation Overview screen, the screen shown in Figure 2–7 is displayed. This screen has a table of contents to an alphabetical list of the products, major product features, and utilities available on A Series systems.

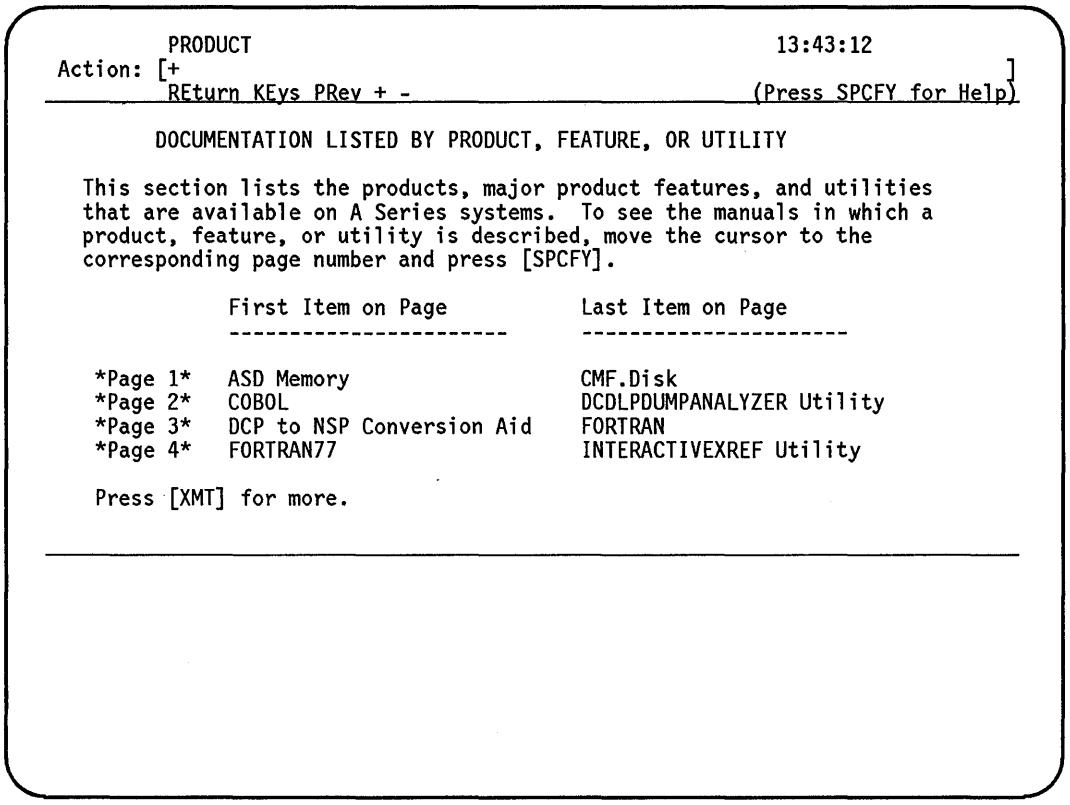


Figure 2–7. Documentation by Product, Feature, or Utility Screen

The table of contents shows a page number and the first and last items found on that page. To see more of the table of contents, press the transmit key. To select a page, move the cursor to the **Page* that includes the product, feature, or utility you want to display and press the specify key.

For example, if you press the specify key on **Page 1**, the screen in Figure 2–8 is displayed.

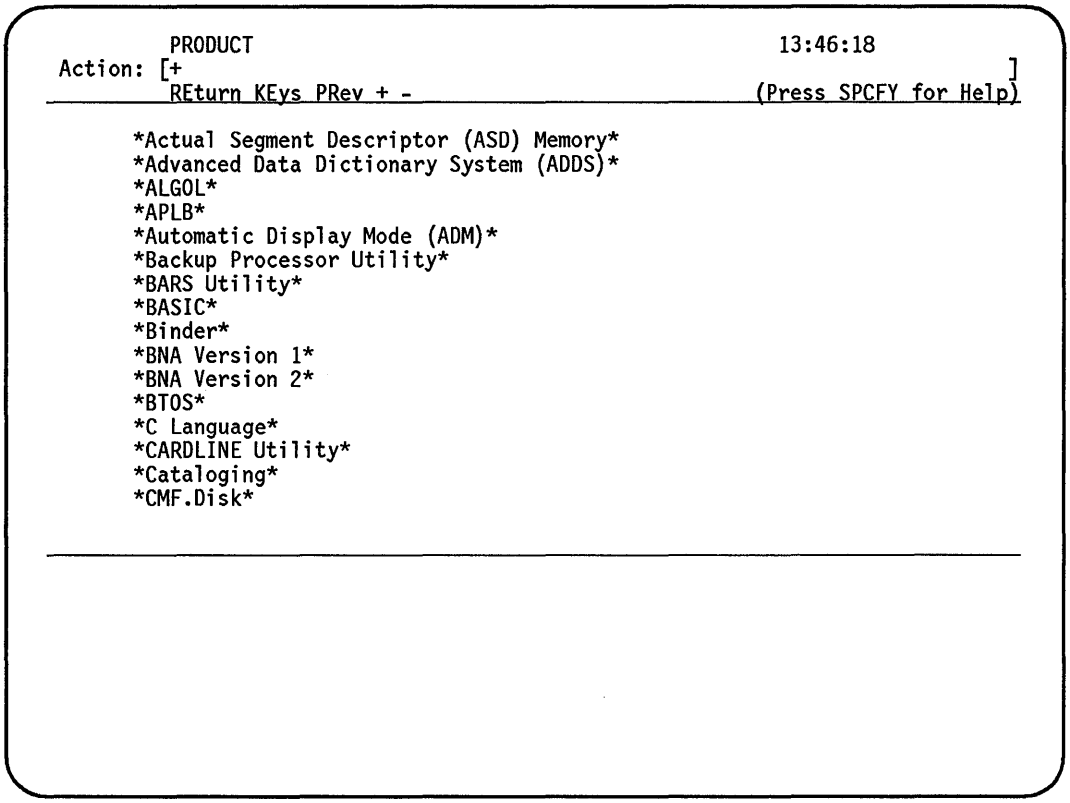


Figure 2–8. Product List Screen

This screen shows the products in alphabetical order from ADDS to CMF.Disk. You can select *ALGOL* from this list.

If you select ALGOL from the alphabetical list, the screen in Figure 2–9 is displayed.

```
        PRODUCT                                              13:51:43
Action: [+                                                           ]
        REturn KEys PRev + -                          (Press SPCFY for Help)

                                    ALGOL

   The extended ALGOL that Unisys offers is designed for the communication
   of algorithms or procedures to A Series systems and is used for
   application and systems programming.  ALGOL is based on the "Revised
   Report on the Algorithmic Language ALGOL 60" (Communications of the ACM,
   Vol.  6, No.  1; January, 1963).

   The following manuals have information about this product:

        *ALGOL Reference Manual Vol 1*
        *ALGOL Reference Manual Vol 2*



   Press [XMT] for more:
```

Figure 2–9. ALGOL Product Screen

This screen provides a short description of ALGOL and lists manuals that have information about ALGOL. To see the rest of the manual list, press the transmit key.

To obtain information about one of the manuals, move the cursor to the manual and press the specify key. For example, you can select the *ALGOL Reference Manual, Volume 1*.

If you select the *ALGOL Reference Manual, Volume 1*, the screen shown in Figure 2–10 is displayed. This screen provides the full title of the manual, the form number to use when ordering it, and an overview of the contents.

```
        DOCUMENTS                                          22:29:03
Action: [+                                                        ]
        REturn KEys PRev + -                          (Press SPCFY for Help)

              A Series ALGOL Programming Reference Manual,
                    Volume 1: Basic Implementation

  Form number: 8600 0098

  This manual describes the basic features of the Extended ALGOL
  programming language. This manual is written for programmers who are
  familiar with programming concepts.
```

Figure 2–10. Documents Screen

Scanning the Documents Sequentially

To scan through the A Series documents in alphabetic order, select the Documents option on the A Series Documentation Overview screen. The screen shown in Figure 2–11 is displayed. Press the transmit key to scroll through the documents. You can enter *RE* to return to the MARC Teach screen or *PR* to return to the previous screen that you were viewing.

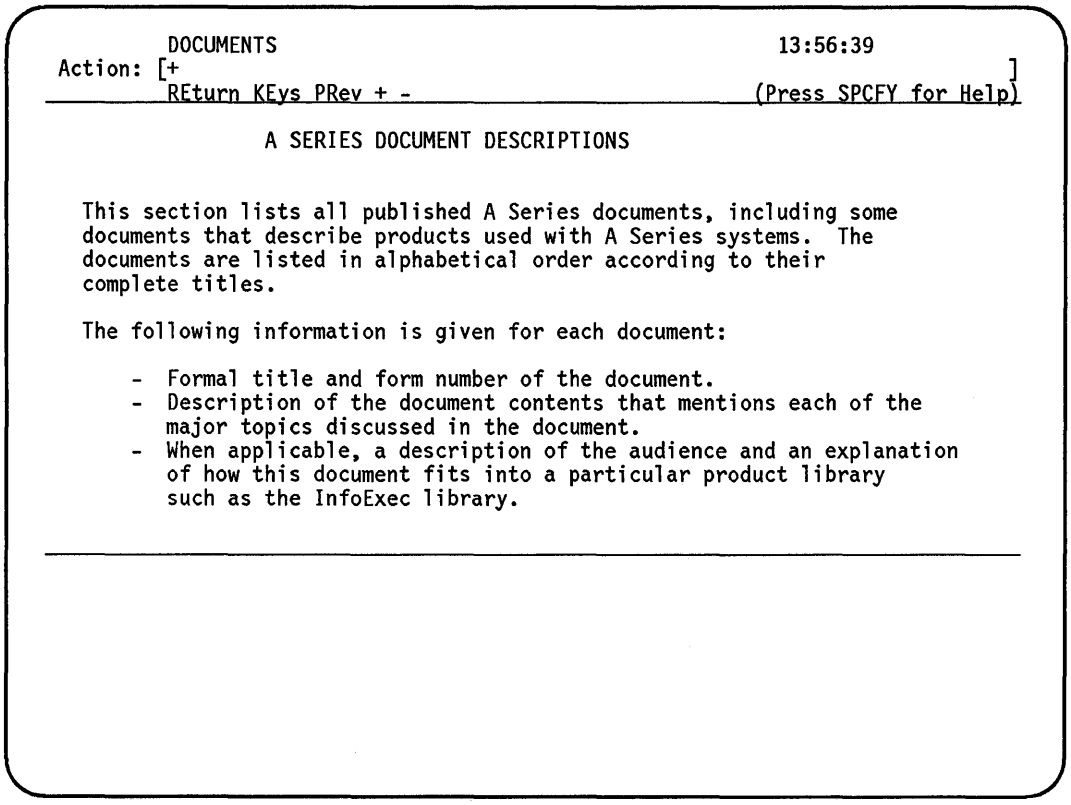


Figure 2–11. Document Descriptions Screen

Finding Documents by Keyword

If you are familiar with the concepts and terms of A Series systems, you might look for a document by keyword. A keyword is the identifier the system uses to find help text on a function, product, feature, utility, or book. Keywords are displayed by entering *KE* in the Action field of the Documentation Overview screen, shown in Figure 2–2. The keywords are listed in alphabetic order. You can move the cursor to any keyword and press the specify key to display the information.

Online A Series Documentation

A Series documents are available online in the CD-ROM Library. You can access the documents while you are using a Unisys product. You can open two manuals at the same time without closing other applications. You can search for information in the online manuals in four ways:

- Standard searches using keywords or standard English
- Index searches using a table of contents or index similar to those in a book
- Hierarchical searches using subjects
- Browsing as you would through a printed book

The CD-ROM Library runs under Microsoft® Windows™ software and uses CD-ROM technology and advanced online search techniques to give you access to entire libraries of product information. For detailed information about this product, refer to the *A Series/V Series System Software Documentation CD-ROM Library Operations Guide.*

Online Help Text

Many A Series products have online help text that can be displayed at your terminal for an explanation of the current application. The help text is retrieved electronically and is more quickly available than information from a printed manual.

You can display help text during processing by pressing the specify key with the cursor positioned in the field that needs explanation. Short help, two lines of information displayed at the bottom of the screen, is displayed when you press the specify key once. Long help, a separate screen of information, is displayed after you press the specify key a second time. Within long help, terms enclosed in asterisks, for example *usercode*, are further explained when you move the cursor between the asterisks and press the specify key.

For additional information about online help text, refer to the individual product manuals.

Tutorials

Tutorials are online instructions that teach you the basic tasks of a product. They are designed to acquaint new users with the features and concepts of the product. Tutorials enable you to learn about a product at your own pace at your own terminal. Refer to the operations guide for a product to learn if a tutorial is available.

Microsoft is a registered trademark of Microsoft Corporation.
Windows is a trademark of Microsoft Corporation.

Section 3
Documentation Listed by Function

This section identifies the functions of an A Series system, and lists the manuals that explain how to accomplish each of these functions. The following major functional areas are covered:

- Administration
- Configuration
- Database management
  - DMSII database management
  - SIM database management
  - SQLDB database management
- Data communications
- Installation
- Message control systems (MCSs)
- Multilingual capabilities
- Networking
- Operations
- Performance tuning
- Printing
- Program development
  - Program development tools
  - Programming features and environments
  - Programming languages
- Progression
- Security
- Transaction processing
- Workstations

Administration

Table 3–1 lists administrative functions associated with an A Series system, and the related documents that provide information about the functions listed.

Table 3–1. Administration

Function	Document and Explanation
Overall system administration	*A Series System Administration Guide* Provides an extensive introduction to the issues involved in administering an A Series system. *A Series System Assistant Programming and Operations Guide* Describes the capabilities and uses of System Assistant, software that enables system administrators to monitor system activities and system state and to automate system response to events.
Changes and new features of Mark 3.9 Release	*A Series Mark 3.9 Software Release Capabilities Overview* Explains how the A Series software has changed since the Mark 3.8.0 software release.
Database administration	*A Series Data Management Functional Overview* Presents an overview of the A Series data management environment.
Memory subsystem administration	*A Series Memory Subsystem Administration and Operations Guide* Provides detailed information about memory architecture and memory management.
Disk subsystem administration	*A Series Disk Subsystem Administration and Operations Guide* Provides detailed information about disk subsystem architecture and disk management.
Security administration	*A Series Security Administration Guide* Explains how to configure security features and establish procedures to meet your security needs.

Configuration

Table 3–2 lists functions associated with A Series configuration and the related documents that explain how to configure various major elements of the system software. Configuration is the step whereby you customize these products to serve the needs of your site. The task of configuration is also touched upon by the manuals listed in Table 3–1, "Administration," in this section.

Table 3–2. Configuration

Function	Document and Explanation
Grouping hardware resources	*A Series System Configuration Guide* Explains a system software feature that enables you to partition hardware resources into separate groups.
Configuring data communications	*A Series Interactive Datacomm Configurator (IDC) Operations Guide* Explains how to configure data comm with IDC, a menu-driven interface that is easy to use. *A Series Network Definition Language II (NDLII) Programming Reference Manual* Explains how to configure data comm with NDLII, an alternative to IDC that is less simple to use, but enables you to create your own line protocols.
Configuring CANDE	*A Series CANDE Configuration Reference Manual* Explains how to configure CANDE for best performance.
Configuring COMS	*A Series Communications Management System (COMS) Configuration Guide* Explains how to configure COMS to regulate stations, programs, and users.
Configuring BNA Version 1	*A Series BNA Version 1 Operations Guide* Explains how to configure a BNA Version 1 network.

Database Management

Unisys offers two database management tools: Data Management System II (DMSII) and the Semantic Information Manager (SIM). The functions associated with these two tools are described in Table 3–3 and Table 3–4.

DMSII Database Management

Table 3–3 lists functions for managing the Data Management System II (DMSII), and the related documents that describe the procedures for developing and managing network and hierarchical databases.

Table 3–3. DMSII Database Management

Function	Document and Explanation
Understanding DMSII	*A Series DMSII Technical Overview* Presents an overview of the DMSII environment.
Defining DMSII databases	*A Series DMSII Data and Structure Definition Language (DASDL) Programming Reference Manual* Explains how to use DASDL to define a DMSII data base.
Inquiring and updating DMSII databases	*A Series DMSII Inquiry Operations Guide* Describes a utility for interactively querying and updating DMSII databases. *A Series Extended Retrieval with Graphic Output (ERGO) Operations Guide* Describes how to use ERGO to query, update, or produce reports about DMSII data. *A Series InfoExec™ DMS.View Operations Guide* Explains how to use DMS.View to make DMSII databases available to InfoExec query facilities.

continued

InfoExec is a trademark of Unisys Corporation.

Table 3–3. DMSII Database Management (cont.)

Function	Document and Explanation
Creating programs that access DMSII databases	*A Series DMSII Utilities Operations Guide* Describes the utilities used in the administration and operation of DMSII databases. *A Series DMSII Application Program Interfaces Programming Guide* Introduces features for accessing DMSII databases from ALGOL, COBOL, COBOL74, RPG, and PL/I. (Also see the programming language manuals under "Programming Languages" in this section.) *A Series DMSII Interpretive Interface Programming Reference Manual* Explains the means of accessing DMSII databases from languages that do not have DMSII extensions. *A Series DMSII Transaction Processing System (TPS) Programming Guide* Describes a system for developing centralized application interfaces to DMSII databases.
Progressing from B 1000 Series DMSII to A Series DMSII	*A Series Data Base Transfer (DBT) Utility Operations Guide* Explains how to transfer data from a B 1000 Series DMSII database to an A Series DMSII database.
Using DMSII databases in the InfoExec environment	*A Series Data Management Functional Overview* Provides a detailed introduction to using DMSII with the Semantic Information Manager (SIM) and InfoExec, for those who have just acquired these products.

SIM Database Management

Table 3–4 lists the functions relative to Semantic Information Manager (SIM) databases and the related manuals that describe how to develop and operate relational and semantic databases using SIM in conjunction with the InfoExec environment.

Table 3–4. SIM Database Management

Function	Document and Explanation
Evaluating the purchase of InfoExec and SIM	*A Series InfoExec Capabilities Manual* Summarizes the capabilities of SIM databases and the InfoExec environment for those who are considering purchasing these products.
Understanding the InfoExec environment	*A Series Data Management Functional Overview* Provides a more detailed introduction to SIM and InfoExec for those who have just acquired these products.
Designing SIM databases	*A Series InfoExec Semantic Information Manager (SIM) Technical Overview* Explains the ways information can be organized in SIM databases.
Implementing SIM databases	*A Series InfoExec ADDS Operations Guide* Describes Advanced Data Dictionary System (ADDS) operations, such as creating and managing DMSII and SIM databases on A Series systems. *A Series InfoExec Semantic Information Manager (SIM) Object Definition Language (ODL) Programming Guide* Describes how to use ODL to define a SIM database.
Operating SIM databases	*A Series InfoExec ADDS Operations Guide* Describes Advanced Data Dictionary System (ADDS) operations, such as creating and managing DMSII and SIM databases.
Querying and updating SIM databases	*A Series InfoExec Interactive Query Facility (IQF) Operations Guide* Explains how to interactively query, update, and generate reports about SIM databases. *A Series InfoExec Semantic Information Manager (SIM) Object Manipulation Language (OML) Programming Guide* Describes how to interrogate and update SIM databases using SIM OML.

continued

Table 3–4. SIM Database Management (cont.)

Function	Document and Explanation
Creating programs that access SIM databases	*A Series InfoExec Semantic Information Manager (SIM) Programming Guide* Introduces the features that enable COBOL74, Pascal, and ALGOL programs to query and update SIM databases. *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide* Explains how to query, update, and generate reports on SIM databases from a workstation.

SQLDB Database Management

Table 3–5 lists the functions relative to Structured Query Language Database (SQLDB) databases and the related manuals that describe how to develop and operate relational and semantic databases by using SQLDB in conjunction with the InfoExec environment.

Table 3–5. SQLDB Database Management

Function	Document and Explanation
Evaluating the purchase of InfoExec and SIM	*A Series InfoExec Capabilities Manual* Summarizes the capabilities of SQLDB databases and the InfoExec environment for those who are considering purchasing these products.
Understanding the InfoExec environment	*A Series Data Management Functional Overview* Provides a more detailed introduction to SQLDB and InfoExec for those who have just acquired these products.
Designing SQLDB databases	*A Series InfoExec Structured Query Language Database (SQLDB) Programming Guide* Explains the ways information can be organized in SQLDB databases.
Implementing SQLDB databases	*A Series InfoExec Structured Query Language Database (SQLDB) Programming Guide* Describes how to use the SQLDB utility to validate and generate your database.
Operating SQLDB databases	*A Series InfoExec ADDS Operations Guide* Describes Advanced Data Dictionary System (ADDS) operations, such as creating and managing SQLDB, SIM, and DMSII databases.

continued

Table 3–5. SQLDB Database Management (cont.)

Function	Document and Explanation
Querying and updating SQLDB databases	*A Series Structured Query Language Database (SQLDB) Programming Guide* Provides the information you require to write queries that can add, alter, delete, and retrieve information from an SQLDB database. This guide also explains how to write and compile query modules that can be accessed by ALGOL and COBOL85 programs. *A Series InfoExec Semantic Information Manager (SIM) Object Manipulation Language (OML) Programming Guide* Explains how to use the SIM library entry points to process a query against an SQLDB database. *A Series InfoExec Interactive Query Facility (IQF) Operations Guide* Explains how to use IQF to process a query against an SQLDB database.
Creating programs that access SQLDB databases	*A Series InfoExec Structured Query Language Database (SQLDB) Programming Guide* Provides the information you require to write queries that can add, alter, delete, and retrieve information from an SQLDB database. This guide also explains how to write and compile query modules that can be accessed by ALGOL and by COBOL85 programs. *A Series InfoExec Semantic Information Manager (SIM) Object Manipulation Language (OML) Programming Guide* Explains how to use the SIM library entry points to process a query against an SQLDB database.

Data Communications

Figure 3–6 lists the functions associated with data communications networks on a single system and the related documents that provide information on the functions, programming, and use of these systems.

Table 3–6. Data Communications

Function	Document and Explanation
Configuring the data communications subsystem	*A Series Interactive Datacomm Configurator (IDC) Operations Guide* Describes how to use this menu-driven utility to define, display, or dynamically modify the configuration of a data communications subsystem. *A Series Network Definition Language II (NDLII) Programming Reference Manual* Explains how to use NDLII to define data communications networks programmatically. You need this manual only if you do not have IDC or if you plan to develop your own line protocols.
Testing and verifying the data communications subsystem	*A Series DiagnosticMCS Reference Manual* Describes the functions and commands of DiagnosticMCS, a message control system (MCS) used to test and verify the data comm subsystem.
Progressing from DCPs to NSPs	*A Series Data Comm Processor (DCP) to Network Support Processor (NSP) Configuration Conversion Operations Guide* Describes a menu-driven utility that aids the conversion of a data communications network from using DCPs to using NSPs.

Installation

Table 3–7 lists the documents that describe how to initialize or reinitialize an A Series system, how to install Micro A hardware, and how to install a new software release.

Table 3–7. Installation

Function	Document and Explanation
Initializing or reinitializing a system	*A Series A 1–A 6 System Software Installation Guide* *A Series A 12 System Operating Guide* *A Series Micro A 800 OS/2™ System Installation Guide* *A Series Micro A 825 OS/2 System Installation Guide* *A Series Micro A 825 UNIX® System Installation Guide* *A Series Micro A System Installation Guide* *A Series Model S System Software Installation Guide* *A Series PCMARC Installation and Operations Guide* *A Series System Software Installation Guide, Volume 1: A 9* *A Series System Software Installation Guide, Volume 1: A 10* Each of these books explains how to initialize the specified systems and environmental software. *A Series System Software Installation Guide, Volume 2: System Initialization* Explains how to reinitialize all these systems under various conditions. *A Series Operating System Installation Guide* Explains how to use the UTILOADER and LOADER utilities to initialize or reinitialize a system.

continued

OS/2 is a trademark of International Business Machines Corporation.
UNIX is a registered trademark of AT&T.

Table 3–7. Installation (cont.)

Function	Document and Explanation
Installing a new software release	*A Series Software Release Installation Guide* Explains how to use the Simple Installation (SI) product to install a new software release on an existing A Series system.
Installing Micro A hardware	*A Series Micro A 280D Disk Drive Installation Instructions* *A Series Micro A A Series Memory Expansion Installation Instructions* *A Series Micro A Data Communications Adapter 1 Board Installation Instructions* *A Series Micro A Data Communications Host Adapter 2 Board Installation 78structions* *A Series Micro A Ergonomic Video Display (EVD) Installation Instructions* *A Series Micro A MA150T Tape Drive Installation Instructions* *A Series Micro A MA280HD Disk Drive Installation Instructions* *A Series Micro A MA560D Disk Drive Installation Instructions* *A Series Micro A MAICP1 Board Installation Instructions* *A Series Micro A Mouse Input Device Installation Instructions* *A Series Micro A OS/2 Version 1.1 Upgrade Kit Installation Instructions* *A Series Micro A SCSI Converter Cabinet Installation Instructions* *A Series Micro A SCSI Host Adapter Board Installation Instructions* Each of these books gives instructions for installing a module of the Micro A series.
Installing a Disk Cache Module	*A Series Disk Cache Module Installation and Operations Guide* Explains how to install and operate a disk cache module.

Message Control Systems (MCSs)

Message control systems process commands entered from remote terminals and route messages between the mainframe and terminals. Table 3–8 lists tasks involving the MCSs and the manuals that describe these tasks.

Table 3–8. Message Control Systems (MCSs)

Function	Document and Explanation
Evaluating the purchase of COMS	*A Series Communications Management System (COMS) Capabilities Manual* Outlines COMS capabilities for those who are considering purchasing COMS.
Configuring COMS	*A Series Communications Management System (COMS) Configuration Guide* Introduces basic COMS concepts and functions. This guide also explains how to configure COMS and how to tune COMS system performance.
Progressing to COMS from other MCSs	*A Series Communications Management System (COMS) Migration Guide* Explains how to migrate from existing MCSs to COMS.
Operating COMS	*A Series Communications Management System (COMS) Operations Guide* Explains COMS operations commands for system operators and end users.
Writing applications that run under COMS	*A Series Communications Management System (COMS) Programming Guide* Explains how to write interactive and batch application programs to run under COMS.
Conducting general system operations from COMS	*A Series Menu-Assisted Resource Control (MARC) Operations Guide* Explains how to operate MARC, a system operations interface provided by COMS. This guide also explains how to modify the MARC user interface.
Configuring and operating CANDE	*A Series CANDE Configuration Reference Manual* Explains CANDE configuration and administration. This manual also documents CANDE network control commands for the system operator.

continued

Table 3–8. Message Control Systems (MCSs) (cont.)

Function	Document and Explanation
Using the end-user features in CANDE	*A Series CANDE Operations Reference Manual* Documents the end-user commands available in CANDE, an MCS designed for file editing, program compilation, and job or task control.
Using the functions and commands of DiagnosticMCS	*A Series DiagnosticMCS Reference Manual* Describes the functions and commands of DiagnosticMCS, an MCS used to test and verify the data comm subsystem.
Using GEMCOS	*A Series Generalized Message Control System (GEMCOS) Operations Guide* Explains how to use, manage, and maintain GEMCOS MSCs. *A Series Generalized Message Control System (GEMCOS) Format Generator Operations Guide* Explains how application programmers can use the GEMCOS Format Generator.
Using remote job entry	*A Series Remote Job Entry (RJE) Operations Reference Manual* Explains how to use RJE to route commands and data between a central system and remote card readers and peripherals. This manual also explains how to tailor and maintain RJE.

Multilingual Capabilities

Table 3–9 lists the tasks associated with the A Series system multilingual capabilities, and the related manuals that explain how you can modify the system interfaces to communicate in languages other than English.

Table 3–9. Multilingual Capabilities

Function	Document and Explanation
Understanding the MultiLingual System	*A Series MultiLingual System (MLS) Administration, Operations, and Programming Guide* Explains how output messages, help text, and menu screens can be translated into multiple natural languages.
Translating messages	*A Series Message Translation Utility (MSGTRANS) Operations Guide* Describes a utility for creating non-English versions of system messages.
Translating screens	*A Series Interactive Menugraph Generator (IMG) Operations Guide* Describes how to use IMG to design and modify screens for the Menu-Assisted Resource Control (MARC) product.

Networking

Table 3–10 lists the tasks that deal with networks and the related documents that discuss BNA networks, which join multiple host systems. There are two separate sets of documents for BNA Version 1 and BNA Version 2. You need only the documents for the BNA version in use at your site. The BNA Version 1 documents are listed first.

Although HYPERchannel® and NETEX® software are not A Series products, they are listed in this table because they are referenced in A Series documentation.

Table 3–10. Networking

Function	Document and Explanation
Understanding simple data comm configurations	*A Series Interactive Datacomm Configurator (IDC) Operations Guide* Explains how to configure data comm with IDC, a menu-driven interface that is easy to use.
Developing custom line protocols	*A Series Network Definition Language II (NDLII) Programming Reference Manual* Explains how to configure data comm with NDLII, an alternative to IDC that is less simple to use, but enables you to create your own line protocols. *A Series Data Communications Protocols Installation and Implementation Guide* Explains DCDLPDUMPANALYZER, which enables you to determine the cause of the errors from data communications data link processors (DCDLPs). You can run this facility either interactively or in batch mode.

continued

HYPERchannel and NETEX are registered trademarks of Network Systems Corporation.

Table 3–10. Networking (cont.)

Function	Document and Explanation
Debugging the data comm network	*A Series Data Communications Protocols Installation and Implementation Guide* Describes DCDLPDUMPANALYZER, which you can use to analyze dumps from any type of data communications data link processor (DCDLP). *A Series Software Release Installation Guide* Includes information about NSPDUMPANALYZER, which you can use to obtain formatted listings of a network support processor (NSP). *A Series Network Definition Language II (NDLII) Programming Reference Manual* Includes information about NDLIIANALYZER, which combines information from the network information file (NIF) and an NSP dump file to produce information concerning the status of an NDLII process.
Monitoring data comm traffic	*A Series System Software Support Reference Manual* Includes information about the ID (Initialize Data Comm) system command, which you can use to specify that the system should audit selected types of data comm activity. It also explains the use of the DCAUDITOR facility to analyze the file produced by the ID facility.
Understanding BNA Version 1 architecture	*Burroughs Network Architecture (BNA) Architectural Description Operating and Programming Reference Manual, Volume 1* Describes BNA Version 1 in depth for network supervisors, programmers, and operators.
Configuring and operating BNA Version 1	*A Series BNA Version 1 Operations Guide* Provides an overview, installation instructions, and descriptions of network operations commands for BNA Version 1.
Using BNA Version 1 Distributed Systems Service	*A Series Distributed Systems Service (DSS) Operations Guide* Explains how to use the distributed systems service (DSS) protocols, security features, and debug trace facilities.

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Automating BNA Version 1 operations	*A Series BNA Version 1 Program Agent Programming Guide* Explains how to write programs that monitor and control a BNA Version 1 network. *A Series BNA Version 1 Operations Guide* Provides descriptions of operations commands that can be used to automate a BNA Version 1 network. *A Series Distributed Systems Service (DSS) Operations Guide* Describes the distributed systems service (DSS) available on BNA Version 1, including file transfer, station transfer, access control, and logging. *A Series File Attributes Programming Reference Manual* Describes each file attribute and each direct I/O buffer attribute. *A Series I/O Subsystem Programming Guide* Describes the use of file access and interprocess communication available on BNA. *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide* Describes print routing in the BNA environment.
Evaluating BNA Version 2 for purchase	*BNA Version 2 Network Capabilities Overview* Explains BNA Version 2 capabilities and features for readers who are considering purchasing this product.

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Installing BNA Version 2	*A Series BNA Version 2 Network Software Implementation Planning Guide* Describes how to plan the implementation of BNA software for a BNA network controlled by an A Series system. *A Series CP 2000 BNA Version 2 Implementation Guide* Provides information needed to install and implement Unisys BNA Version 2, CP 2000 communications processor, and Network Administrative Utility (NAU) 2.1 software on an A Series CP 2000 network. *A Series CPDLP BNA Version 2 Implementation Guide* Provides the information for installing and implementing the software necessary to configure a simple A Series communications processor data link processor (CPDLP) BNA Version 2 network. *A Series Integrated Communications Processor (ICP) BNA Version 2 Implementation Guide* Explains how to install and configure a BNA Version 2 network that contains an A Series with an ICP. *A Series Network Administrative Utility (NAU) Operations Guide* Describes how to use NAU to describe a BNA network and to generate initialization files for CP 2000s and CPDLPs. *A Series OSI Implementation Guide* Explains how to install and configure Open Systems Interconnection (OSI) into a BNA Version 2 network.
Operating BNA Version 2	*A Series BNA Version 2 Operations Guide* Describes in procedural form the operations that you can perform in BNA Version 2.
Automating BNA Version 2 operations	*A Series BNA Version 2 User Program Agent Programming Guide* Explains how to write programs that monitor and control a BNA Version 2 network.

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Planning a CPLAN configuration	*Communications Processor Local Area Network (CPLAN) Planning Guide* Describes the concepts of the CPLAN and gives information necessary to plan a local area network using a communications processor.
Centralizing network operations	*A Series Network Control Facility (NCF) Implementation Guide* Explains how to install NCF and how to configure PCs and terminals to run NCF. *A Series Network Control Facility (NCF) Operations Guide* Provides instructions for using NCF after it is installed and configured.
Customizing line protocol	*CP 2000/CPDLP Custom Protocol Programming Guide* Provides the information and procedures necessary to write custom protocols for use in the CP 2000 communications processor and the CPDLP.
Debugging networks	*BNA Version 2 Memory Dump Analyzer Status Codes Support Reference Manual* Provides information about the status codes that are given with the data from a memory dump.
Using HYPERchannel and NETEX in a network	*A Series File Attributes Programming Reference Manual* Describes direct I/O buffer attributes. *A Series I/O Subsystem Programming Guide* Includes an overview of HYPERchannel networks. *A Series System Configuration Guide* Includes information on how to create a HYPERchannel map. *A Series Systems Functional Overview* Includes a discussion about the compatibility and the relationship of HYPERchannel and NETEX software.

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Using the SNA PUT2 gateway	*A Series CP 2000/CPDLP SNA PUT2 Implementation Guide* Describes how to install and configure A Series CP 2000/CPDLP SNA PUT2 into a basic existing BNA Version 2 network using the NAU. *A Series CP 2000/CPDLP SNA PUT2 Operations Guide* Describes how to perform routine A Series CP 2000/CPDLP SNA PUT2 network operations, including resource management and definition. It also describes how to troubleshoot hardware and software problems.
Using the SNA PUT5 gateway	*A Series CP 2000 SNA PUT5 Implementation Guide* Describes how to install and configure A Series CP 2000 SNA PUT5 into a basic, existing BNA Version 2 network using the NAU. *A Series CP 2000 SNA PUT5 Operations Guide* Describes how to perform routine A Series CP 2000 SNA PUT5 operations, including resource management and definition. This guide also describes how to troubleshoot hardware and software problems.
Using the SNA Logical Unit Type 6.2 Service Manager	*A Series SNA LU6.2 Service Manager Implementation and Operation Guide* Provides the instructions and detailed information you need to install, implement, and operate the Unisys Logical Unit Type 6.2 (LU6.2) Service Manager software facility on an A Series system. *A Series SNA LU6.2 Service Manager Programming Guide* Provides the information you need to design, code, and test a transaction program according to the SNA Logical Unit Type 6.2 (LU6.2) protocol. *A Series SNA LU6.2 Service Manager Programming Reference Manual* Provides reference information you might need to design, code, and test a transaction program using the SNA Logical Unit Type 6.2 (LU6.2) protocol.

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Using the SNA RJE	*A Series SNA RJE Implementation and Operations Guide* Describes how to install, configure, and operate an A Series SNA RJE workstation facility that is interfacing to an SNA host processor in an A Series BNA Version 2 CP 2000 or CPDLP network.
Using 3270 terminal emulation	*A Series SNA 3270 Terminal Emulator Implementation and Administration Guide* Provides information needed to implement and administer the SNA 3270 terminal emulator that enables Unisys terminals to emulate an IBM® 3270 series terminal when connected to an IBM mainframe. *A Series SNA 3270 Terminal Emulator Operations and Programming Guide* Provides information needed to operate the SNA 3270 terminal emulator that is being used to emulate an IBM 3270 series terminal when connected to an IBM mainframe. This guide also provides the information needed by programmers writing programs for systems that use the terminal emulator linked to an SNA network either through a DCDLP, or through a CP 2000 or CPDLP.
Using X.25 protocol	*A Series X.25 MCS Operations and Programming Reference Manual* Describes how to use the X.25 message control system (MCS) to interface with packet-switched data networks (PSDNs) that use the X.25 protocol recommended by the Consultative Committee on International Telegraphy and Telephony (CCITT).

continued

Table 3–10. Networking (cont.)

Function	Document and Explanation
Using the Mail System	*A Series Mail System Installation and Administration Guide* Explains the procedures for installing, troubleshooting, and maintaining the Mail System. *A Series Mail System Operations Guide* Provides task-oriented information for the user of the A Series Mail System, and an alphabetic reference of the MAIL commands and user options. *A Series TCP/IP Implementation Guide* Explains how to install the Transmission Control Protocol/ Internet Protocol (TCP/IP) software in an A Series BNA Version 2 network, and describes related features and dependencies, such as Distributed Systems Service features supported by TCP/IP and the interfaces to the Ethernet® local area network (LAN) and X.25 wide area network (WAN) provided by the Unisys CP 2000 communications processor.

IBM is a registered trademark of International Business Machines Corporation.
Ethernet is a registered trademark of Xerox Corporation.

Operations

Table 3–11 lists normal operations tasks and the related documents that explain the day-to-day operations of an A Series system.

Table 3–11. Operations

Function	Document and Explanation
Learning basic operations procedures	*A Series System Operations Guide* Explains how to accomplish daily operations tasks, such as job monitoring and control, file maintenance, disk and printer management, problem solving, and system reinitialization. *A Series A 5 System Operations Guide* Provides information required to operate and support an A 5 system during normal and abnormal operating conditions.
Using system commands	*A Series System Commands Operations Reference Manual* Documents all the system commands that can be used from a system console. *A Series Railroad Diagram Reference Card* Provides a quick reference to the rules of railroad syntax diagrams.
Using MARC menus for operations	*A Series Menu-Assisted Resource Control (MARC) Operations Guide* Explains how to use the MARC menu interface to accomplish operations functions, and how to enter system commands in MARC.
Understanding system messages	*A Series System Messages Support Reference Manual* Explains the likely cause of an error and the most effective response.
Using process management	*A Series Work Flow Language (WFL) Programming Reference Manual* Documents all the WFL statements, many of which can be entered by operators at a system console to manage processes running simultaneously. These processes include work flow management, dynamic control of online programs, process priority assignments, batch job controls, process restarts, and user billing.

continued

Table 3–11. Operations (cont.)

Function	Document and Explanation
Using operations utilities	*A Series System Software Support Reference Manual* Documents the utilities for system log analysis, data comm analysis, real-time performance monitoring, system dump analysis, peripheral testing, and recording operator activity. *A Series System Software Utilities Operations Reference Manual* Documents the utilities for file maintenance and for printing card reader files.
Understanding security features	*A Series Security Features Operations and Programming Guide* Describes how to use security features to access information or to protect information.
Controlling the Print System	*A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide* Explains how to install, configure, and control the Print System and the Remote Print System. *A Series Printing Utilities Operations Guide* Explains the Backup Processor utility and the SYSTEM/BACKUP utility.

Performance Tuning

Table 3–12 lists tasks associated with A Series system performance tuning and the related documents that explain how to monitor, control, and predict system performance.

Table 3–12. Performance Tuning

Function	Document and Explanation
Monitoring system performance with LOGANALYZER	*A Series System Software Support Reference Manual* Discusses the LOGANALYZER and LOGGER utilities. The SUMLOG section discusses log record formats and the SITESUPPORT library.
Monitoring database performance with SMFII	*A Series System Management Facility II (SMFII) Query Operations Guide* Explains how to use the SMFII product to collect data about system performance and reliability, and how to issue reports using the Query utility. *A Series System Management Facility II (SMFII) Resource Management Operations Reference Manual* Provides information regarding the collecting of data about system performance through real-time sampling, or through analysis of the system SUMLOG files using the LOGANALYZER utility, the LOGGER utility, and the LOGCONSOLIDATOR utility.
Monitoring system performance with SYSTEMSTATUS	*A Series SYSTEMSTATUS Programming Reference Manual* Documents the SYSTEMSTATUS function of the DCALGOL programming language.

continued

Table 3–12. Performance Tuning (cont.)

Function	Document and Explanation
Monitoring, modeling, and improving disk subsystem performance	*A Series Capacity Management Facility.Disk Operations Guide* Explains how to use the Capacity Management Facility.Disk product to monitor disk performance and predict the results of disk configuration changes. *A Series Capacity Management Facility.Disk Operations Training Guide* Provides 16 training exercises to help you become familiar enough with CMF.Disk to start using it on your system. *A Series Disk Cache Module Installation and Operations Guide* Describes how to install and operate a disk cache module, which is a set of buffers that hold recently requested disk data so that subsequent read requests can be read from the buffers, thereby reducing access time.
Monitoring transaction performance	*A Series Communications Management System (COMS) Configuration Guide* *A Series Communications Management System (COMS) Programming Guide* Provide information about the COMS Statistics facility, which can help you fine-tune the system and eliminate bottlenecks in processing transactions. You can use the Statistics facility to determine the average response time for direct window programs or particular direct window transactions. The Statistics facility comes only with the full-featured version of COMS.

continued

Table 3–12. Performance Tuning (cont.)

Function	Document and Explanation
Customizing system performance monitoring	*A Series DCALGOL Programming Reference Manual* Explains the statistics gathering interfaces used by SMFII and other utilities, which are also available to application programs written in Data Communications ALGOL (DCALGOL). These DCALGOL functions enable you to write your own system monitoring programs, which can be tailored to the needs of your installation. *A Series GETSTATUS/SETSTATUS Programming Reference Manual* Explains the functions of GETSTATUS and SETSTATUS and provides both input information that the programmer needs to write the call and output information that can help the programmer interpret the results that are returned. *A Series SYSTEMSTATUS Programming Reference Manual* Provides information that can be used to efficiently monitor the performance of a running system.

Printing

Table 3–13 lists tasks that are associated with printing on an A Series system. All A Series customers should have copies of the documents shown in this table.

Table 3–13. Printing

Function	Document and Explanation
Configuring and operating the Print System	*A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide* Explains how to install, configure, and control the Print System and the Remote Print System.
Using printing utilities	*A Series Printing Utilities Operations Guide* Explains the Backup Processor utility and the SYSTEM/BACKUP utility.
Writing programs that print output	*A Series I/O Subsystem Programming Guide* Contains complete descriptions of print-related file attributes.

Program Development

Unisys provides a number of products that can assist you in program development. Because there are many of these types of products, this section is broken down into the following three tables:

- Program development tools
- Programming features and environments
- Programming languages

Program Development Tools

Table 3–14 lists A Series program development tools and the manuals that describe how to use them.

Table 3–14. Program Development Tools

Function	Document and Explanation
Debugging programs with TADS	*A Series ALGOL Test and Debug System (TADS) Programming Guide* *A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide* *A Series FORTRAN77 Test and Debug System (TADS) Programming Guide* These three documents describe how to use the Test and Debug System (TADS) for ALGOL, COBOL(74), and FORTRAN77, respectively.
Binding separate programs together	*A Series Binder Programming Reference Manual* Describes a utility for inserting compiled subprograms into compiled host programs.
Developing program source code	*A Series Editor Operations Guide* Describes the Editor, a utility for data entry and program development. *A Series Intelligent Distributed Editor (IDE) Operations Guide* Explains how to operate IDE, a distributed editing environment that combines creation, modification, compilation, and debugging of a program in one session. *A Series Railroad Diagram Reference Card* Provides a quick reference to the rules of railroad syntax diagrams.

continued

Table 3–14. Program Development Tools (cont.)

Function	Document and Explanation
Developing screens and help text	*A Series Help Utility Operations Guide* Explains how to use the Help Utility to produce online help text for application and system programs. *A Series Interactive Menugraph Generator (IMG) Operations Guide* Explains how to use IMG to design and modify screen menus and forms. *A Series Screen Design Facility (SDF) Capabilities Manual* Describes the capabilities and benefits of the Screen Design Facility (SDF) for executives and data processing managers who are interested in purchasing SDF. *A Series Screen Design Facility (SDF) Operations and Programming Guide* Explains how to use SDF, a more advanced alternative to the IMG product, for designing screen menus and forms. *A Series Screen Design Facility Plus (SDF Plus) Capabilities Manual* Describes the the capabilities of the SDF Plus facility. *A Series Screen Design Facility Plus (SDF Plus) Installation and Operations Guide* Explains how to use SDF Plus, a more advanced alternative to the SDF product, for creating a user interface, including designing screen menus and forms. *A Series Screen Design Facility Plus (SDF Plus) Technical Overview* Provides conceptual information for using SDF Plus effectively.

continued

Table 3–14. Program Development Tools (cont.)

Function	Document and Explanation
Fourth-generation program development in LINC II	*LINC II Technical Overview* Gives an overview of the LINC II product. *A Series LINC II Installation & Configuration Guide* Describes the procedure for installing and configuring LINC II software on A Series systems. *A Series/V Series LINC II Programming Reference Manual* Provides reference material for the definition of a LINC II specification. *A Series/V Series LINC II Programming Reference Handbook* Summarizes the syntax commands of the LINC II Development Environment and LINC II Definition Language. *A Series/V Series LINC II Workstation Operations Guide* Describes how to install and operate workstations in a LINC II environment.
Using specialized program development utilities	*A Series System Software Utilities Operations Reference Manual* Provides information on the A Series system utilities.

Programming Features and Environments

Table 3–15 lists A Series programming features and environments that are available in a variety of different programming languages. You will want to have these manuals, regardless of your programming language.

Table 3–15. Program Features and Environments

Function	Document and Explanation
Understanding A Series architecture	*A Series System Architecture Reference Manual, Volume 2* Describes and defines the architecture used in A Series data processing system products.
Using I/O features	*A Series File Attributes Programming Reference Manual* Presents all file attributes for interacting with the I/O subsystem. *A Series I/O Subsystem Programming Guide* Introduces basic programming concepts for the I/O subsystem.
Using libraries	*A Series Task Management Programming Guide* Explains how to initiate, monitor, and control processes on an A Series system. Additional information on using libraries can be found in the individual programming language manuals.
Initiating and ending tasks and interprocess communication	*A Series Task Attributes Programming Reference Manual* Describes the task attributes on A Series systems. *A Series Task Management Programming Guide* Explains how to initiate, monitor, and control processes on A Series systems.
Creating printed output	*A Series Print System (Prints/ReprintS) Administration, Operations, and Programming Guide* Explains how to use program features to control printed output.
Using security features	*A Series Security Features Operations and Programming Guide* Explains how a program uses security features to protect files or to access special files, and how you can protect a program from unauthorized changes.

continued

Table 3–15. Program Features and Environments (cont.)

Function	Document and Explanation
Writing COMS direct programs	*A Series Communications Management System (COMS) Programming Guide* Explains how to write interactive and batch application programs to run under COMS.

Programming Languages

Table 3–16 lists the programming languages that are available on the A Series system and the documents that describe these language implementations. Some of these manuals are two-volume sets. Everyone who uses the language needs Volume 1. You need Volume 2 only if you are using the language interfaces to the Advanced Data Dictionary System (ADDS), the Communications Management System (COMS), the Data Management System (DMSII), the Information Executive (InfoExec), the Screen Design Facility (SDF), or the Screen Design Facility Plus (SDF Plus).

Table 3–16. Programming Languages

Function	Document and Explanation
Writing programs in ALGOL	*A Series ALGOL Programming Reference Manual, Volume 1: Basic Implementation* Describes the basic features of the Extended ALGOL programming language on the A Series systems. *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces* Describes the Extended ALGOL language extensions designed to interface with A Series software products.
Writing programs in APLB	*A Series APLB Programming Reference Manual* Describes the syntax and semantics, installation, procedures, and utilities of APLB.
Writing programs in BASIC	*A Series BASIC Programming Reference Manual* Describes the A Series implementation of BASIC, a language developed for novice users.
Writing programs in C	*A Series C Programming Reference Manual* Describes the C programming language, including the A Series extensions.
Writing programs in COBOL ANSI-68	*A Series COBOL ANSI-68 Programming Reference Manual* Describes the A Series implementation of COBOL, which conforms to the ANSI standard X3.23-1968.

continued

Table 3–16. Programming Languages (cont.)

Function	Document and Explanation
Writing programs in COBOL ANSI-74	*A Series COBOL ANSI-74 Programming Reference Manual, Volume 1: Basic Implementation* Describes the basic features of COBOL ANSI-74 on the A Series systems. *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces* Describes the COBOL ANSI-74 extensions designed to interface with A Series software products.
Writing Programs in COBOL ANSI-85	*A Series COBOL ANSI-85 Programming Reference Manual, Volume 1: Basic Implementation* Describes the basic features of COBOL ANSI-85 on A Series systems. *A Series COBOL ANSI-85 Programming Reference Manual, Volume 2: Product Interfaces* Describes the COBOL ANSI-85 extensions designed to interface with A Series software products.
Writing programs in DCALGOL	*A Series DCALGOL Programming Reference Manual* Describes the Data Communications ALGOL (DCALGOL) language extensions for writing message control systems (MCSs) or system supervisor programs.
Writing programs in DMALGOL	*A Series DMALGOL Programming Reference Manual* Describes ALGOL language extensions for writing Data Management System II (DMSII) software.
Writing programs in FORTRAN	*A Series FORTRAN Programming Reference Manual* Describes the A Series implementation of FORTRAN, a structured language intended mainly for scientific use.
Writing programs in FORTRAN77	*A Series FORTRAN77 Programming Reference Manual* Describes the A Series implementation of FORTRAN, ANSI X3.9-1978.
Writing programs in NEWP	*A Series NEWP Programming Reference Manual* Describes the features and syntax of the NEWP programming language.

continued

Table 3–16. Programming Languages (cont.)

Function	Document and Explanation
Writing programs in Pascal	*A Series Pascal Programming Reference Manual, Volume 1: Basic Implementation* Describes the basic features of Pascal on A Series systems. *A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces* Describes the Pascal extensions designed to interface with A Series software products.
Writing programs in PL/I	*A Series PL/I Reference Manual* Describes the A Series implementation of PL/I, a structured programming language intended for scientific and commercial use.
Writing programs in RPG	*A Series Report Program Generator (RPG) Programming Reference Manual, Volume 1: Basic Implementation* Describes the basic features of the RPG language on the A Series systems. *A Series Report Program Generator (RPG) Programming Reference Manual, Volume 2: Product Interfaces* Describes the RPG extensions designed to interface with A Series software products. *A Series Report Program Generator (RPG) Programming Template* Helps programmers to align code in fields and columns and to debug applications programs.
Writing programs in the SORT language	*A Series SORT Language Programming Reference Manual* Explains how to use the SORT language to write programs for sorting and merging files.
Writing WFL jobs	*A Series Work Flow Language (WFL) Programming Reference Manual* Explains WFL, a language for program compilation, task control, and file maintenance.

Progression

Table 3–17 lists progression functions and the documents that explain the necessary operational and programming procedures involved in moving from one Unisys product to another Unisys product providing similar, but more advanced, functionality.

Table 3–17. Progression

Function	Document and Explanation
Progressing from B 1000 systems	*B 1000 Series to A Series Progression Guide* Provides instructions and tips for progressing from the Unisys B 1000 Series system to the Unisys A Series system. Discusses common progression problems, provides solutions to progression problems, and gives general information for handling the overall progression process. *A Series Data Base Transfer (DBT) Utility Operations Guide* Explains how to transfer data from a B 1000 Series DMSII database to an A Series DMSII database.
Progressing to COMS from another MCS	*A Series Communications Management System (COMS) Migration Guide* Explains how to migrate from existing message control systems (MCSs) to COMS.
Progressing from DCPs to NSPs	*A Series Data Comm Processor (DCP) to Network Support Processor (NSP) Configuration Conversion Operations Guide* Describes a menu-driven utility that aids the conversion of a data communications network from using DCPs to using NSPs.

Security

Table 3–18 lists tasks that are associated with system security and the documents that explain how to perform these tasks to prevent unauthorized access to information on an A Series system.

Table 3–18. Security

Function	Document and Explanation
Configuring the system for security	*A Series Security Administration Guide* Explains how to determine the best security policy for your system, and how to configure the system to provide the desired level of protection. This guide also describes how to run the MAKEUSER utility to create or modify usercodes.
Using security features	*A Series Security Features Operations and Programming Guide* Describes how to protect individual files, programs, and databases. This guide also explains how to access protected information.

Transaction Processing

Table 3–19 lists documents that deal with transaction processing. These documents describe systems that enable you to interactively query or update a database or application program.

Table 3–19. Transaction Processing

Function	Document and Explanation
Database transaction processing	*A Series DMSII Inquiry Operations Guide* Describes a utility for interactively querying and updating DMSII databases. *A Series DMSII Transaction Processing System (TPS) Programming Guide* Describes a system for developing centralized application interfaces to DMSII databases. *A Series Extended Retrieval with Graphic Output (ERGO) Operations Guide* Describes how to use ERGO to query, update, or produce reports about DMSII data. *A Series InfoExec Interactive Query Facility (IQF) Operations Guide* Explains how to interactively query, update, and generate reports about SIM databases.
COMS transaction processing	*A Series Communications Management System (COMS) Configuration Guide* Explains how to collect performance statistics for transactions entered through COMS. *A Series Communications Management System (COMS) Programming Guide* Explains how to write processing items and agendas that manipulate or route messages between application programs and users. This guide also explains how a program can access COMS service functions, including those that provide transaction statistics. *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide* Explains how to query, update, and generate reports on SIM databases from a workstation.

Workstations

Table 3–20 lists tasks that relate to the use of workstations with an A Series system. The documents listed discuss products that run on microcomputers attached to A Series systems.

Table 3–20. Workstations

Function	Document and Explanation
Developing programs at a workstation	*A Series Intelligent Distributed Editor (IDE) Operations Guide* Explains how to operate IDE, a distributed editing environment that combines creation, modification, compilation, and debugging of a program in one session. *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide* Explains how to use WQF to query or update an InfoExec database.
Emulating X3.64 and Tektronix® 4014 terminals	*Workstations Extended Graphics Terminal (EGT) Operations Guide* Describes a terminal emulator that provides for extended X3.64 terminal control sequences as well as emulation of Tektronix 4014 graphics capabilities.
Querying and updating SIM databases	*Workstations InfoExec Workstations Query Facility (WQF) Operations Guide* Explains how to use WQF to query or update an InfoExec database.
Using a windowing interface to the mainframe	*Workstations INFOVIEW™ II Operations Guide* Explains the concepts and features of the INFOVIEW II environment. *Workstations INFOVIEW II Programming Reference Manual* Defines the concepts and procedures for developing an application for the INFOVIEW II environment.

Tektronix is a registered trademark of Tektronix Inc.
INFOVIEW is a trademark of Unisys Corporation.

Section 4
Documentation Listed by Product, Feature, or Utility

This section lists the products and the major product features and utilities that are available on the A Series systems. Documents that contain information about the subject are listed for each item. Descriptions of the documents can be found in Section 5, "Document Descriptions."

Advanced Data Dictionary System (ADDS)

ADDS is a software application package that provides a centralized system for the creation, storage, and retrieval of data definitions. These data definitions describe most elements of information on a system. ADDS data definitions can be included in application programs and can be used to generate databases automatically. ADDS is a key part of the InfoExec environment and an essential tool for defining SIM databases. ADDS also provides the capabilities for centrally defining DMSII databases and controlling system files.

The following manuals have relevant information about this product:

- *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Data Management Functional Overview*
- *A Series InfoExec ADDS Operations Guide*
- *A Series InfoExec Interactive Query Facility (IQF) Operations Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Technical Overview*
- *A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Screen Design Facility Plus (SDF Plus) Installation and Operations Guide*
- *A Series Security Features Operations and Programming Guide*
- *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide*

ALGOL

The extended ALGOL Unisys offers is designed for the communication of algorithms or procedures to A Series systems and is used for applications and systems programming. ALGOL is based on the *Revised Report on the Algorithmic Language ALGOL 60* (Communications of the ACM, Vol. 6, No. 1; January, 1963).

The following manuals have relevant information about this product:

- *A Series ALGOL Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series ALGOL Test and Debug System (TADS) Programming Guide*
- *A Series Binder Programming Reference Manual*
- *A Series DMSII Application Program Interfaces Programming Guide*
- *A Series Generalized Message Control System (GEMCOS) Operations Guide*
- *A Series InfoExec Interactive Query Facility (IQF) Operations Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

APLB

APLB is a procedure-oriented language that can produce very short but powerful programs. It is used for numerical analysis applications.

The following manual is relevant to this product:

- *A Series APLB Programming Reference Manual*

Automatic Display Mode (ADM)

An alternative to the MARC operations interface is the operator display terminal (ODT) interface. One of the features of the ODT interface is ADM. When you initiate ADM, the system automatically displays information about various aspects of system status. The displays can include lists of processes that are scheduled, active, waiting, or recently completed; system messages; memory and processor utilization statistics; and status of peripheral units. You can obtain the same displays through MARC menu selections or individual system commands. However, the advantage of ADM is that it displays several types of information on a single screen and updates the display automatically. You can specify which types of information are to be displayed and how often the display is to be updated.

The following manual is relevant to this product:

- *A Series System Commands Operations Reference Manual*

Backup Processor Utility

The Backup Processor Utility enables you to copy files to disk, list them on a terminal, print files, and remove files. The CANDE *BACKUPPROCESS* command automates the process.

The following manuals have relevant information about this product:

- *A Series CANDE Operations Reference Manual*
- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*
- *A Series Printing Utilities Operations Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*
- *B 1000 Series to A Series Progression Guide*

BARS Utility

BARS is a real-time utility program that monitors system performance and displays performance statistics as numeric values and bar graphs. The items displayed are those concerning the current central processing unit (CPU), memory, I/O, and disk pack use. The display is updated periodically and automatically contains only those items that apply to the system on which BARS is running.

The BARS utility is also referred to as the Activity Reporting Systems (BARS) utility.

The following manuals have relevant information about this product:

- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series System Software Support Reference Manual*
- *B 1000 Series to A Series Progression Guide*

BASIC

Unisys BASIC is a general-purpose language based on the ANSI standard X3.60-1978 for BASIC.

The following manual is relevant to this product:

- *A Series BASIC Programming Reference Manual*

Binder

On A Series systems, programs and subprograms written in different languages can be bound together to produce one executable program. This feature allows standard procedures, such as mathematical functions, to be written only once yet used by all applications on the system. It also allows an application to be broken down into smaller components that are separately compiled. The procedure is compiled separately and later bound to a compiled program, in the same or another language, that refers to that procedure. The program that accomplishes this is the Binder.

The following manuals have relevant information about this product:

- *A Series ALGOL Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Binder Programming Reference Manual*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

BNA Version 1

BNA has two versions: BNA Version 1 and Enhanced BNA, referred to as BNA Version 2. BNA Version 2, like BNA Version 1, enables users to link A Series systems into networks.

If you plan to use both BNA Versions 1 and 2, be aware that you must deal with different station and terminal connections and different data communications methods for each version. You cannot run BNA Version 1 and BNA Version 2 simultaneously on the same host, and they cannot communicate with each other.

In a BNA Version 1 environment, your terminals must be connected to a line support processor (LSP) or a data communications data link processor (DCDLP). These terminals and processors can still function on a local level if you switch to BNA Version 2 operating mode. BNA Version 1 must have its own INIT file, which has a syntax and format that are different from those of the BNA Version 2 INIT file.

The following manuals have relevant information about this product:

- *A Series BNA Version 1 Operations Guide*
- *A Series BNA Version 1 Program Agent Programming Guide*
- *A Series Distributed Systems Service (DSS) Operations Guide*

BNA Version 2

BNA has two versions: BNA Version 1 and Enhanced BNA, referred to as BNA Version 2. BNA Version 2, like BNA Version 1, enables users to link A Series systems into networks. BNA Version 2 has incorporated the unique structuring feature of decentralized control that was part of BNA Version 1 when it was released in 1981.

However, BNA Version 2 differs from BNA Version 1 in two major aspects:

- BNA Version 2 supports and is supported by hardware that is different from the BNA Version 1 hardware.
- BNA Version 2 has expanded features and more capabilities than BNA Version 1.

If you plan to use both BNA Versions 1 and 2, be aware that you must deal with different station and terminal connections and different data communications methods for each version. You cannot run BNA Version 1 and BNA Version 2 simultaneously on the same host, and they cannot communicate with each other.

In a BNA Version 2 environment, expanded networking capabilities for A Series systems are provided through the following integrated products:

- Integrated communications processor (ICP), a controller that handles a significant portion of the communications overhead associated with BNA Version 2 in the host system.
- The CP 2000 communications processor, a data communications processor that provides terminal connections for hosts equipped with ICP and provides connections for long-distance networks.
- Unisys communications processor local area network (CPLAN), a coaxial cable used to interface CP 2000 and A Series hosts equipped with ICP at a site.

The following manuals have relevant information about this product:

- *A Series BNA Version 2 Network Software Implementation Planning Guide*
- *A Series BNA Version 2 Operations Guide*
- *A Series BNA Version 2 User Program Agent Programming Guide*
- *A Series CP 2000 BNA Version 2 Implementation Guide*
- *A Series CPDLP BNA Version 2 Implementation Guide*
- *A Series OSI Implementation Guide*
- *BNA Version 2 Encoded Messages Programming Reference, Volumes 1 and 2*
- *BNA Version 2 Library Overview Reference Card*
- *BNA Version 2 Network Attributes Dictionary*
- *BNA Version 2 Network Capabilities Overview*
- *BNA Version 2 Operations Reference Manual, Volume 3: Reports, Log Messages, and Error Message*
- *BNA Version 2 Operations Reference Manual, Volumes 1 and 2: Commands and Inquiries*

BTA370 Migration Aids

One common progression path is from B 1000 Series systems to A Series systems. A special tape called the BTA370 Migration Aids tape is available with the A Series system software release. Table 4–1 lists some of the modules included on this tape.

Table 4–1. B 1000 to A Series Migration Aids

Migration Aid	Explanation
COBOL(68) to COBOL74 on A Series (CTA)	Translates B 1000 Series COBOL(68) to A Series COBOL74.
RPG Translator (BRT)	Translates B 1000 Series RPG to A Series RPG.
COBOL74 Translator (B7T)	Translates B 1000 Series COBOL74 to A Series COBOL74.
Data Base Transfer (DBT) Utility	Loads data from a B 1000 Series DMSII database to an A Series DMSII database.
B1000COPY	Copies files to an A Series system from tapes created by a B 1000 Series system.

B 1000 products that provide an easy conversion route to A Series systems include On-Line Data Entry System (ODESY) and LINC II software.

The A Series ODESY provides functional and visual equivalence to B 1000 Series ODESY. A program for progressing ODESY format dump files from B 1000 systems to A Series systems is also provided.

You can migrate LINC II application systems from B 1000 systems to A Series systems without making any LINC Definition Language (LDL) changes.

The following manuals have relevant information about this product:

- *A Series Data Base Transfer (DBT) Utility Operations Guide*
- *A Series On-Line Data Entry System (ODESY) Installation Reference Manual*
- *B 1000 Series On-Line Data Entry System (ODESY) Terminal Operator's Manual*
- *B 1000 to A Series Progression Guide*

BTOS

BTOS is the operating system for Unisys workstations. It loads programs, permits concurrent operation of two or more programs, schedules processes within the system, and provides management information.

For additional information about BTOS, refer to the following manuals:

- *BTOS Business Graphics Package (BGP) Operating and Programming Guide*
- *BTOS Data Transfer System (BTOS DTS) Operations and Programming Guide*
- *BTOS Multiplan® Operations Guide*
- *BTOS On-line Approach Static Information System (OASIS) Operations Guide*
- *B20 Systems Executive WRITEone Word Processing Reference Manual*

Command and Edit (CANDE)

Command and Edit (CANDE) is a time-sharing message control system (MCS) designed to simplify communication during the creation and execution of programs. CANDE provides a single, complete environment from which you can edit files and manage programs. Through CANDE, users can interact with and control programs while the programs are executing.

The following manuals have relevant information about this product:

- *A Series CANDE Configuration Reference Manual*
- *A Series CANDE Operations Reference Manual*
- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*
- *A Series Security Administration Guide*
- *A Series Security Features Operations and Programming Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Management Facility II (SMFII) Resource Management Operations Reference Manual*
- *A Series System Software Utilities Operations Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*
- *B 5000/B 6000/B 7000 Series CANDE Reference Card*

Capacity Management Facility.Disk (CMF.Disk)

CMF.Disk helps you to make decisions about optimizing disk performance on A Series systems.

CMF.Disk operates in two modes: sampling and modeling. In the sampling mode, CMF.Disk collects statistics about disk I/O activity. The statistics are collected using a low-impact sampling method that imposes very little system overhead. The sampling mode produces a report summarizing the usage levels of each element of the disk

Multiplan is a registered trademark of Microsoft Corporation.

subsystem, including all disk units and DLPs. This sampling report might reveal an unequal distribution of I/O activity, in which case you can redistribute files and DLPs to create a better balance.

In modeling mode, CMF.Disk enables you to specify various hypothetical changes to your disk subsystem configuration. These changes can include adding or subtracting DLPs, changing to different models of disk units, and using Mirrored Disk, Memory Disk, or disk cache. CMF.Disk then uses advanced simulation techniques to create a report summarizing the effect the proposed configuration would have on your disk performance.

CMF.Disk is a menu-driven product with extensive online help, and does not require you to have any technical knowledge of the disk subsystem or modeling techniques. All necessary background information for understanding and using CMF.Disk is provided in the following documents.

For additional information about CMF.Disk, refer to the following manuals:

- *A Series Capacity Management Facility.Disk Operations Guide*
- *A Series Capacity Management Facility.Disk Operations Training Guide*

Capacity Management Facility.Snapshot (CMF.Snapshot)

CMF.Snapshot is made up of two major components: PROBEMANAGER and CMF.W.

PROBEMANAGER is a set of coordinated software modules that runs on the host and constantly monitors the system performance and stores the performance data. PROBEMANAGER can accommodate multiple performance workstations that are running CMF.W.

CMF.W is a workstation interface that runs on Unisys personal computers (PCs) and uses INFOVIEW II workstation management software to communicate with the mainframe and manage the user environment, including windows and graphics.

CMF.W provides you with two views of your system performance: a real-time performance monitor called MONITOR, and a historical performance monitor called SNAPSHOT.

The following manual has relevant information about CMF.Snapshot:

- *A Series Capacity Management Facility.Snapshot (CMF.Snapshot) End Use Guide*

CARDLINE Utility

The SYSTEM/CARDLINE utility is used to print or punch a Burroughs Common Language (BCL), EBCDIC, or BINARY data deck. The output includes a printout of the card images, a card count, and a sequence check. Columns 73 through 80 are checked for sequence errors. In addition to the card-to-print function, other utility functions can be

accomplished by file-equating the input or output files of the program. The input file is named CARD, and the output file is named LINE.

The following manual is relevant to this product:

- *A Series System Software Utilities Operations Reference Manual*

CATALOGING Feature

The CATALOGING feature is used to keep track of all file copies created by FILECOPY or by WFL jobs you write yourself, or to find a file or a backup copy of a file. You can use it to keep track of as many as seven different versions of each file, and as many as two copies of each version of a file.

The following manual is relevant to this product:

- *A Series Disk Subsystem Administration and Operations Guide*

COBOL

COBOL is designed for the implementation of business-oriented data processing programs. COBOL(68) conforms to the ANSI standard X3.23-1968.

For additional information about COBOL(68), refer to the following manual:

- *A Series COBOL ANSI-68 Programming Reference Manual*

COBOL(74)

COBOL is designed for the implementation of business-oriented data processing programs. COBOL74 conforms to ANSI standard X3.23-1974.

The following manuals have relevant information about this product:

- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide*
- *A Series KEYEDIOII Programming Reference Manual*

COBOL(85)

The COBOL85 compiler contains ANSI-74 features, Unisys extensions to the COBOL ANSI-74 language, and new ANSI-85 features.

The following manuals have relevant information about this product:

- *A Series COBOL ANSI-85 Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series COBOL ANSI-85 Programming Reference Manual, Volume 2: Product Interfaces*

Communications Management System (COMS)

The Communications Management System (COMS) is the primary A Series message control system (MCS). COMS supports a network of users and provides them with a consistent, online interface to the system. COMS is partially integrated into the operating system, which enhances its ability to efficiently handle a high volume of transactions from multiple programs, stations, and remote files.

The following manuals have relevant information about this product:

- *A Series Communications Management System (COMS) Capabilities Manual*
- *A Series Communications Management System (COMS) Configuration Guide*
- *A Series Communications Management System (COMS) Migration Guide*
- *A Series Communications Management System (COMS) Operations Guide*
- *A Series Communications Management System (COMS) Programming Guide*

COMPARE Utility

The COMPARE utility compares one or more pairs of files. This utility performs a bit-by-bit comparison on each record, or on each sequence number and record, of each pair of files. If the records or sequence numbers are not identical, or if one of the specified files is not present, an appropriate error message is printed. The comparison of a pair of files is terminated after a specified number of unsuccessful comparisons has been made, and the utility proceeds to the next pair of files.

The following manual is relevant to this product:

- *A Series Message Translation Utility User's Guide*

Data and Structure Definition Language (DASDL)

The DMSII Data and Structure Definition Language (DASDL) is the data definition language for DMSII. You use DASDL to describe the physical and logical characteristics of a database, and the criteria to be used to ensure the integrity and security of the data in the database.

The following manual is relevant to this product:

- *A Series DMSII Data and Structure Definition Language (DASDL) Programming Reference Manual*

Data Base Transfer (DBT) Utility

The Data Base Transfer (DBT) utility is designed to help solve the problem of migrating a database and the data to the target system as quickly as possible. DBT generates a program to dump the database data from a DMSII database from one Unisys system to another.

The following manual is relevant to this product:

- *A Series Data Base Transfer (DBT) Utility Operations Guide*

Data Management System II (DMSII)

DMSII is a record-oriented database management system that uses hierarchical and network data models to describe a database and allow concurrent processing and updating of data by many users. In addition, DMSII supports multiple databases and allows them to be accessed simultaneously from online time-sharing, batch, and remote-job-entry environments. DMSII supplies all these functions and more to enable you to obtain information where and when it is needed.

The following manuals have relevant information about this product:

- *A Series DMSII Application Program Interfaces Programming Guide*
- *A Series DMSII Data and Structure Definition Language (DASDL) Programming Reference Manual*
- *A Series DMSII Inquiry Operations Guide*
- *A Series DMSII Interpretive Interface Programming Reference Manual*
- *A Series DMSII Transaction Processing System (TPS) Programming Guide*
- *A Series DMSII Utilities Operations Guide*

Data Transfer System (DTS)

DTS enables you to automatically transfer information and software capabilities from a mainframe to an intelligent workstation.

The following manuals are relevant to this product:

- *DOS Data Transfer System (DDTS) Operations and Programming Guide*
- *Personal Workstation[2] Data Transfer System (DTS) Installation and Configuration Guide*
- *Personal Workstation[2] Data Transfer System (DTS) Operations Guide, Volume 1: Simple Transfers*

DATACOMINFO File

The DATACOMINFO file stores the data comm configuration for a system. This file contains a complete description of the configuration, including algorithms, editors, and translation tables. The DATACOMINFO file supplied with the software includes industry-standard protocols plus example definitions for lines and stations. The definitions can serve as models for new lines and stations to be added to a configuration.

You can modify the DATACOMINFO file by using the Interactive Datacomm Configurator (IDC). IDC has a menu-driven interface with online help that greatly simplifies data comm configuration. Even if you have minimal knowledge of data communication, you can easily use IDC to define complex networks containing user-defined protocols and terminals.

The following manual is relevant to this product:

- *A Series Interactive Datacomm Configurator (IDC) Operations Guide*

DBANALYZER Utility

DBANALYZER is a software tool that analyzes the logical and physical structure of a database and provides reports that a database manager can use to modify, tune, reorganize, and document the database. DBANALYZER describes the structures in the database and their interrelationships, analyzes the database file, and provides information about how the files are referred to. Because the program does not allow a user to examine the contents of the database, it does not compromise database security.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *A Series DMSII Utilities Operations Guide*
- *B 1000 Series to A Series Progression Guide*

Personal Workstation[2] is a trademark of Unisys Corporation.

DBCERTIFICATION Utility

The DBCERTIFICATION utility program determines the integrity of a DMSII database. It provides three levels of certification: physical integrity, internal intrafile integrity, and intrastructure integrity.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *A Series DMSII Utilities Operations Guide*
- *B 1000 Series to A Series Progression Guide*

DCALGOL

Data Communications ALGOL (DCALGOL) is intended for the implementation and control of a data communications system and for accessing privileged system functions.

The following manual is relevant to this product:

- *A Series DCALGOL Programming Reference Manual*

DCAUDITOR Utility

This utility prints monitored NSP traffic. It can print all traffic or selected classes, such as messages, errors, or trace messages.

The following manuals have relevant information about this product:

- *A Series System Commands Operations Reference Manual*
- *A Series System Software Support Reference Manual*

DCDLPDUMPANALYZER Utility

The DCDLPDUMPANALYZER utility helps you to analyze dumps from any type of data communications data link processor (DCDLP). You can request any of these devices to produce a dump if unexpected errors occur in the software that controls them, including any user-defined protocols.

DCDLPDUMPANALYZER provides the ability to determine the cause of these errors. You can run this utility either interactively or in batch mode. In interactive mode, you can request a hard copy of the results at the end of the session. Interactive mode also provides help text explaining the commands.

The following manual is relevant to this product:

- *A Series Data Communications Protocols Installation and Implementation Guide*

DCP to NSP Configuration Conversion Aid

The data communications processor (DCP) to network support processor (NSP) configuration conversion aid is an optional capability of the Interactive Datacomm Configurator (IDC). It is an interactive, menu-driven utility that enables you to transform the configuration section of a DCP data comm network to the configuration section of an NSP data comm network. The configuration conversion is designed for the A Series systems and for TD-compatible terminals.

The following manual is relevant to this product:

- *A Series Data Comm Processor (DCP) to Network Support Processor (NSP) Configuration Conversion Operations Guide*

DCSTATUS Utility

This utility tells you the current status of the data comm network by producing an analysis of the state of the data comm tables maintained by the operating system and the data comm subsystem.

The following manuals have relevant information about this product:

- *A Series CANDE Operations Reference Manual*
- *A Series DiagnosticMCS Reference Manual*
- *A Series System Software Support Reference Manual*

DiagnosticMCS

DiagnosticMCS performs many functions expected of a message control system (MCS). For instance, it can attach stations that it controls, handle error recovery on a station or line, manage remote file activities that go through its controlling stations, and support reconfiguration of the data comm network.

The main use of DiagnosticMCS is to verify and test the data comm subsystem. Monitoring and error diagnostic facilities provided by the MCS are helpful in this regard. Since the DiagnosticMCS commands encompass a wide range, most data comm activities initiated and handled by an MCS can be tested with this program.

The following manual is relevant to this product:

- *A Series DiagnosticMCS Reference Manual*

Disk Cache

A disk cache is a set of buffers that hold recently requested disk data so that subsequent read requests can be read from the buffers, thereby reducing access time.

The following manual is relevant to this product:

- *A Series Disk Cache Module Installation and Operations Guide*

Disk Subsystem

The disk subsystem consists of the disk pack media, the disk drives, the disk controller, the I/O controller, and the software that controls the structure and operation of the disk subsystem and provides the structure for the information stored on the subsystem.

The following manual is relevant to this product:

- *A Series Disk Subsystem Administration and Operations Guide*

DMALGOL

Data Management ALGOL (DMALGOL) is an extension of ALGOL that is intended for use in programs for the implementation of DMSII.

The following manual is relevant to this product:

- *A Series DMALGOL Programming Reference Manual*

DMMONITOR Utility

DMMONITOR is an interactive utility that provides database status and statistics and permits changes to database options and parameters. Status and statistics can be requested for the entire database or for selected structures of the database, and include the number of users, whether users are updating information or making inquiries, the number of transactions, overlay rates, and the number of read and write operations performed.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *A Series DMSII Utilities Operations Guide*
- *B 1000 Series to A Series Progression Guide*

DMSII Inquiry Utility

DMSII Inquiry is an interactive utility for examining or modifying data in a DMSII database. DMSII Inquiry is designed to enable users who are unfamiliar with database concepts to easily and effectively access and use database information. Through this utility, you can examine the contents or the description of a database; modify, create, or delete records within a database; generate reports from the database; and extract information from the data base and place it in a standard file.

The following manual is relevant to this product:

- *A Series DMSII Inquiry Operations Guide*

DMSII Interpretive Interface

The Interpretive Interface provides access to DMSII databases through application languages that do not have DMSII extensions. This interface eliminates the need both for special DMSII statements in programs and for prior knowledge of database operations. The primary requirement for using the DMSII Interpretive Interface is that the application language must support libraries.

The following manual is relevant to this product:

- *A Series DMSII Interpretive Interface Programming Reference Manual*

DMS.View Utility

DMS.View adds semantic directory information to the DMSII database definition that makes a DMSII database available to InfoExec query facilities. The change is transparent to DMSII utilities, and does not require changes to any DMSII applications programs or operations procedures. Before you can use these utilities on a DMSII database you must first process the database with the DMS.View utility. The DMS.View utility is available only as part of the InfoExec environment.

The following manual is relevant to this product:

- *A Series InfoExec DMS.View Operations Guide*

DUMPALL Utility

DUMPALL is a generalized file maintenance utility used primarily for transfer of files from one medium to another. DUMPALL also generates listings of files and controls the movement of files from tapes.

The following manuals have relevant information about this product:

- *A Series System Software Utilities Operations Reference Manual*
- *B 1000 Series to A Series Progression Guide*

DUMPANALYZER Utility

The SYSTEM/DUMPANALYZER utility produces user-specified subsets of information from a memory dump and analyzes that information according to parameters given by default or supplied by the user. DUMPANALYZER can be run from a remote terminal, system console, or card reader. Each command is processed before the next command is parsed.

The following manuals have relevant information about this product:

- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series System Software Support Reference Manual*
- *B 1000 Series to A Series Progression Guide*

Editor

The Editor is a system utility that is executed through CANDE using the CANDE *UTILITY* command.

The following manual is relevant to this product:

- *A Series Editor Operations Guide*

Extended Graphics Terminal (EGT)

Workstations Extended Graphics Terminal (EGT) is a terminal emulator that provides for extended X3.64 terminal control sequences as well as emulation of Tektronix 4014 graphics capabilities.

The following manual is relevant to this product:

- *Workstations Extended Graphics Terminal (EGT) Operations Guide*

Extended Retrieval with Graphic Output (ERGO)

Extended Retrieval with Graphic Output (ERGO) is a program used to retrieve data from a DMSII database and produce reports from that data, to display information graphically, and to relate and format data. At the option of the site management, ERGO can also be used to modify, add, or delete records from a database.

The following manuals have relevant information about this product:

- *A Series Extended Retrieval with Graphic Output (ERGO) Capabilities Manual*
- *A Series Extended Retrieval with Graphic Output (ERGO) Operations Guide*

File Attributes

In a multiuser, multiprogram environment, most files cannot be viewed as the simple property of a single program. Because of data communications, time-sharing, and database management applications, files have become system components often accessed by a wide variety of programs. Therefore, it is necessary to have some method of managing files that is system wide and language independent. On A Series systems, files are managed through file attributes.

The following manuals have relevant information about file attributes:

- *A Series File Attributes Programming Reference Manual*
- *A Series I/O Subsystem Programming Guide*
- *A Series Physical I/O Technical Overview*

FILECOPY Utility

The FILECOPY utility simplifies library maintenance by automating the creation of copy decks. You specify the location and types of files to be copied, and FILECOPY uses this information for a Work Flow Language (WFL) program to do the copying. The library maintenance performed by FILECOPY runs from the same queue as the FILECOPY run. The class for the FILECOPY job run is included as part of the output job deck.

The following manuals have relevant information about this product:

- *A Series Disk Subsystem Administration and Operations Guide*
- *A Series System Software Utilities Operations Reference Manual*

FILEDATA Utility

FILEDATA produces selected reports regarding files. The reports can provide a list of files, a map of files, a disk checkerboard, specific attributes files, names in a tape directory, a file for use in a library maintenance copy statement, a raw (HEX) dump of disk file headers, catalog information about a file, specified attributes of code files, a file for a compile job deck, and code files compatible with a set of host systems.

The following manuals have relevant information about this product:

- *A Series Disk Subsystem Administration and Operations Guide*
- *A Series Security Administration Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Software Utilities Operations Reference Manual*

FORTRAN

FORTRAN is designed for scientific applications. FORTRAN(66) is compatible with FORTRAN IV, H level, and contains ANSI standard X3.9-1966 FORTRAN as a subset.

The following manual is relevant to this product:

- *A Series FORTRAN Programming Reference Manual*

FORTRAN77

FORTRAN77 is an extension of FORTRAN66 and conforms to ANSI standard X3.9-1978.

The following manuals have relevant information about this product:

- *A Series FORTRAN77 Programming Reference Manual*
- *A Series FORTRAN77 Test and Debug System (TADS) Programming Reference Manual*

Generalized Message Control System (GEMCOS)

GEMCOS is designed to provide you with a message control system (MCS) tailored to meet the specific requirements of your installation. The GEMCOS MCS is transaction oriented and provides you with the flexibility to meet a broad range of processing requirements.

The following manuals have relevant information about this product:

- *A Series Generalized Message Control System (GEMCOS) Format Generator Operations Guide*
- *A Series Generalized Message Control System (GEMCOS) Operations Guide*
- *B 5000/B6000/B 7000 Series GEMCOS Reference Card*

GETSTATUS Routine

GETSTATUS is an intrinsic routine within the master control program (MCP). It retrieves information about the job or task mix, peripheral and disk unit status, MCP and configuration status, and the files in the disk directories.

The following manuals have relevant information about this product:

- *A Series DCALGOL Programming Reference Manual*
- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series Security Features Operations and Programming Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

GUARDFILE Utility

The GUARDFILE utility can be used to create guard files. Programs that create output files can use file attribute assignments to specify the file security.

A guard file is a special type of file whose only purpose is to store information about access restrictions for another, associated file. The guard file can include lists of the usercodes, accesscodes, and programs that are allowed to access a file.

The following manuals have relevant information about this product:

- *A Series Security Features Operations and Programming Guide.*
- *A Series Security Administration Guide*

Help Utility

The Help Utility is one element of a system designed to supply online information for the computer user. It creates a help book by processing a source file that contains embedded commands and help text. You can access help text for a particular product without leaving current processing or looking in a printed manual.

The following manual is relevant to this product:

- *A Series Help Utility Operations Guide*

HYPERchannel

HYPERchannel is a high-speed digital communication networking system that is used by the A Series. Through the HYPERchannel link, a HYPERchannel network enables communication among independent systems, including mixed vendor systems.

The following manuals have relevant information about this product:

- *A Series DCALGOL Programming Reference Manual*
- *A Series File Attributes Programming Reference Manual*
- *A Series I/O Subsystem Programming Guide*
- *A Series System Commands Operations Reference Manual*

Indexed Sequential Access Method (ISAM)

The ISAM facility is a set of software routines that implement indexed sequential access methods of storage and retrieval of data records. ISAM enables a keyed file to be processed in both random and sequential form. The ISAM facility is accessible to COBOL, PL/1 and ALGOL. COBOL74, COBOL85, and RPG use KEYEDIOII.

The following manual is relevant to this product:

- *A Series System Software Utilities Operations Reference Manual*

InfoExec

The InfoExec family of software products, the most recent generation of information management technology by Unisys, is an information management system that encompasses all the functions necessary to manage your data resources. The InfoExec

family offers an integrated, online approach to database definition and queries and control, retrieval, and maintenance of your data. These capabilities are accomplished in the InfoExec interactive, screen-based environment.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *A Series DMSII Utilities Operations Guide*
- *A Series InfoExec Capabilities Manual*
- *A Series InfoExec Interactive Query Facility (IQF) Operations Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Programming Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Technical Overview*

InfoGuard

InfoGuard provides enhancements and additions to security for the A Series systems. The InfoGuard features increase the level of system security and simplify the task of configuring a secure system.

The following manuals have relevant information about this product:

- *A Series Security Administration Guide*
- *A Series Security Features Operations and Programming Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

INFOVIEW II

INFOVIEW II serves as an applications support environment for the ET 2000 Series workstations, certain B 20 Series workstations, the IBM PC® microcomputer, and compatible terminals. By providing a sophisticated and flexible workstation software environment that can interface to host system resources across the A Series product line, INFOVIEW II serves as a productivity aid that requires no additional software products.

The following manuals have relevant information about this product:

- *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide*
- *Workstations INFOVIEW II Operations Guide*
- *Workstations INFOVIEW II Programming Reference Manual*

IBM PC is a registered trademark of International Business Machines Corporation.

Input/Output (I/O) Subsystem

The I/O subsystem manages all transfers of information between system and application software and peripheral devices. The A Series systems are sophisticated systems, providing a wide range of capabilities, but the systems are designed for ease of use, making minimal demands on the user. The I/O subsystem is intended to be transparent to the user program. You see a simple, familiar, and convenient user interface.

The following manuals have relevant information about this product:

- *A Series File Attributes Programming Reference Manual*
- *A Series I/O Subsystem Programming Guide*
- *A Series Physical I/O Technical Overview*

Intelligent Distributed Editor (IDE)

IDE provides an environment for program development on intelligent workstations. IDE is capable of running both in a host-based, terminal-oriented, traditional data comm environment, and in a shared resource environment with a host and a personal computer over traditional data comm lines.

The following manual is relevant to this product:

- *A Series Intelligent Distributed Editor (IDE) Operations Guide*

Interactive Datacomm Configurator (IDC)

IDC enables you to modify the data comm information file to reflect the current data comm network. IDC requires minimal knowledge of data communications, yet allows the definition of complex networks containing user-defined protocols and terminals.

The following manual is relevant to this product:

- *A Series Interactive Datacomm Configurator (IDC) Operations Guide*

Interactive Menugraph Generator (IMG)

IMG enables you to interactively edit and maintain screens for MARC, Interactive Datacomm Configurator (IDC), and IMG. IMG enables you to customize screens. The text that appears on screens can be translated to natural languages other than English, or can be revised to be more applicable to specific users of those screens.

The following manual is relevant to this product:

- *A Series Interactive Menugraph Generator (IMG) Operations Guide*

Interactive Query Facility (IQF)

InfoExec IQF is a menu-driven tool that enables you to query SIM databases and files, and permits easy access to data. IQF manages the tasks associated with the querying function, enabling you to retrieve data in a manner meaningful to you, without the constraints of physical file organization. In addition, IQF provides facilities for updating SIM databases.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *A Series InfoExec Interactive Query Facility (IQF) Operations Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Technical Overview*

INTERACTIVEXREF Utility

The INTERACTIVEXREF utility allows interactive access to detailed information about the identifiers declared in a program. It obtains information from files generated by the SYSTEM/XREFANALYZER utility.

The following manual is relevant to this product:

- *A Series System Software Utilities Operations Reference Manual*

KEYEDIOII

COBOL74, COBOL85, RPG, and Pascal files with records sequenced by keys can be accessed in both sequential and random modes through use of a system library. KEYEDIOII uses a hierarchy of indexes to locate records for both types of access. In KEYEDIOII files, sequential records are not necessarily stored next to each other. Instead the keys are indexed in sequential order and used in that order for sequential access of the records.

For additional information about KEYEDIOII, refer to the following manual:

- *A Series KEYEDIOII Programming Reference Manual*
- *A Series System Software Utilities Operations Reference Manual*

LINC/LINC II

LINC II is a fourth-generation software development tool that enables programmers to create applications programs at less cost and as much as 10 times faster than by conventional methods. Its speed and efficiency facilitate enhancements, changes to the database, production of new reports, and future migrations. LINC II also makes customization convenient, fast, and inexpensive.

The following manuals have relevant information about this product:

- *LINC II Executive Overview*
- *A Series/V Series LINC II Network Implementation Guide*
- *A Series LINC II Installation & Configuration Guide*

LINC.View

The LINC.View utility enables you to generate a SIM layer for LINC II databases. You can inquire and report against these databases by using the Interactive Query Facility (IQF) or the Workstation Query Facility (WQF) and produce SIM database structure and entity reports against the SIM layer.

For additional information about LINC.View, refer to the following manual:

- *A Series InfoExec LINC.View Operations Guide*

LOADER Utility

LOADER is a standalone utility that loads operating systems to disk or pack. LOADER is itself loaded into main memory by UTILOADER. Usually, LOADER is run to change operating systems, but only when operating system tables require alteration or when a cold start is required.

For additional information about LOADER, refer to the following manual:

- *A Series Operating System Installation Guide*

LOGANALYZER Utility

LOGANALYZER is a program that analyzes operations data and provides a history of task beginning and ending times and file opening and closing times. LOGANALYZER also produces a report consisting of all SYSTEM/SUMLOG entries that correspond to parameters that you set. LOGANALYZER extracts the specified types of entries from the log and formats them for display on a screen, or for printing or writing to a file.

The following manuals have relevant information about this product:

- *A Series BNA Version 1 Operations Guide*
- *A Series BNA Version 2 Network Software Implementation Planning Guide*
- *A Series CANDE Operations Reference Manual*
- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

LOGGER Utility

LOGGER generates reports to aid in the analysis of system performance and use. It extracts user-selected data from the SUMLOG files and summarizes, totals, averages, and sorts the data to produce a report. LOGGER is less powerful and flexible than SMFII, but is useful for producing charging and billing information.

The following manuals have relevant information about this product:

- *A Series Security Administration Guide*
- *A Series System Software Support Reference Manual*
- *B 1000 Series to A Series Progression Guide*

LTTABLEGEN Utility

The LTTABLEGEN utility is used to generate custom tables for nonstandard laser printer character sets.

The following manual is relevant to this product:

- *A Series Printing Utilities Operations Guide*

MAKEUSER Utility

Usercodes, passwords, and accesscodes are created through the MAKEUSER utility, which builds a miniature database, the USERDATAFILE file. This file contains all the information needed about system users. Only privileged users can access the utility to create or change the file. The MU (Make User) system command is an alternate way of adding or changing usercodes; its use is optional and can be restricted.

The following manuals have relevant information about this product:

- *A Series BNA Version 1 Operations Guide*
- *A Series Menu-Assisted Resource Control (MARC) Operations Guide*
- *A Series Security Administration Guide*

Math Functions

Programs written in various languages can use the mathematical functions provided by the A Series systems to perform mathematical operations. The functions are grouped in three sections: single-precision, double-precision, and complex.

The following manual is relevant to this product:

- *A Series System Software Utilities Operations Reference Manual*

Memory Disk

Memory Disk is the use of memory as if it were a disk unit. It provides file access with extremely high data-transfer rates and relatively little access time. The Memory Disk units can be used, with certain restrictions, in the same way as any other disk.

The following manuals have relevant information about this product:

- *A Series Disk Subsystem Administration and Operations Guide*
- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Configuration Guide*

Memory Subsystem

The memory subsystem provides storage and handles all transfers of data between main memory and the main processor. This subsystem consists of one or more memory control units and memory storage units, plus the memory interface, which might be part of a control unit.

The following manuals have relevant information about this product:

- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Configuration Guide*

Menu-Assisted Resource Control (MARC)

Menu-Assisted Resource Control (MARC) is a menu- and command-driven interface to A Series systems. It has been developed for systems programmers, applications programmers, and system operators and runs under the Communications Management System (COMS) message control system (MCS).

The following manuals have relevant information about this product:

- *A Series ALGOL Test and Debug System (TADS) Programming Guide*
- *A Series BNA Version 2 Network Software Implementation Planning Guide*
- *A Series Communications Management System (COMS) Migration Guide*
- *A Series Help Utility Operations Guide*
- *A Series Interactive Menugraph Generator (IMG) Operations Guide*
- *A Series MultiLingual System (MLS) Administration, Operations, and Programming Guide*
- *A Series PCMARC Installation and Operations Guide*

- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*
- *A Series Security Features Operations and Programming Guide*
- *A Series SNA RJE Implementation and Operations Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Software Support Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

Message Translation Utility

The Message Translation utility translates system and application program output messages from one natural language to another. The utility is an interactive tool that can be used by programmers with varying levels of expertise to translate ALGOL and NEWP output messages from one natural language to other natural languages.

The following manuals have relevant information about this product:

- *A Series Message Translation Utility (MSGTRANS) Operations Guide*
- *A Series MultiLingual System (MLS) Administration, Operations, and Programming Guide*
- *A Series System Commands Operations Reference Manual*

Mirrored Disk

The Mirrored Disk feature supports identical copies of specified packs to provide protection against pack failures. It allows two to four disk packs to function in parallel as a "mirrored set," that is, as exact copies of one another.

The following manuals have relevant information about this product:

- *A Series DCALGOL Programming Reference Manual*
- *A Series Disk Subsystem Administration and Operations Guide*
- *A Series System Commands Operations Reference Manual*

MultiLingual System (MLS)

MLS permits output messages, online help text, and menu screens to be displayed in multiple natural languages such as French, English, and Spanish. Each user on the system can view the messages in a different language.

The following manuals have relevant information about this product:

- *A Series Message Translation Utility (MSGTRANS) Operations Guide*
- *A Series MultiLingual System (MLS) Administration, Operations, and Programming Guide*
- *A Series Screen Design Facility Plus (SDF Plus) Installation and Operations Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

NDLIIANALYZER Utility

The NDLIIANALYZER utility aids in the debugging process. NDLIIANALYZER combines information from the network information file (NIF) and an NSP dump file to produce information concerning the status of an NDLII process.

For additional information about NDLIIANALYZER, refer to the following manual:

- *A Series Network Definition Language II (NDLII) Programming Reference Manual*

NETEX

NETEX, a host-to-host communications package, enables application programs in different hosts to communicate with each other, regardless of specific network configuration. Through the NETEX software, applications such as file transfer and transaction processing can be implemented across hosts. NETEX uses the Direct HY file interface. The Direct HY file and its usage are transparent to the user when NETEX is used.

The following manuals have relevant information about this product:

- *A Series DCALGOL Programming Reference Manual*
- *A Series System Commands Operations Reference Manual*

Network Administrative Utility (NAU)

NAU is a BNA Version 2 host software component that enables you to specify interactively the entire network configuration . NAU provides you with a set of interactive menus for building and maintaining a consistent set of network initialization files (called INIT files) for individual BNA Version 2 nodes. The types of information that can be specified from NAU menus include host names, network addresses, station types, and connection types.

For more information on NAU, refer to the following manual:

- *A Series Network Administrative Utility (NAU) Operations Guide*

Network Control Facility (NCF)

Network Control Facility (NCF) is a BNA Version 2 host software component that enables you to control and monitor the status and usage of BNA Version 2 network components, the distributed control agent, and the graphics display module.

The following manuals have relevant information about this product:

- *A Series BNA Version 2 Network Software Implementation Planning Guide*
- *A Series Network Control Facility (NCF) Implementation Guide*
- *A Series Network Control Facility (NCF) Operations Guide*

Network Definition Language II (NDLII)

Network Definition Language II (NDLII) is a high-level language for developing user-written line protocols. An NDLII program contains a network description and the tables and code for network support processors (NSPs) and line support processors (LSPs). You use NDLII to implement a nonstandard protocol on a data comm network. Once the protocol is defined, you can incorporate it into the network by using the Interactive Datacomm Configurator (IDC). You can also use NDLII to generate a full network description and then later use IDC to modify that description.

The following manuals have relevant information about this product:

- *A Series COBOL ANSI-68 Programming Reference Manual*
- *A Series Communications Management System (COMS) Configuration Guide*
- *A Series Communications Management System (COMS) Programming Guide*
- *A Series Interactive Datacomm Configurator (IDC) Operations Guide*
- *A Series Network Definition Language II (NDLII) Programming Reference Manual*
- *A Series Physical I/O Technical Overview*
- *A Series SNA/RJE Implementation and Operations Guide*
- *A Series SNA 3270 Terminal Emulator Operations and Programming Guide*
- *B 1000 Series to A Series Progression Guide*

Network Support Processor (NSP)

The NSP is a data link processor (DLP) and is treated as a peripheral by the system. The NSP controls the data comm subsystem, the links, and the line discipline. By performing these functions, it enables the central processor to use processing cycles for message processing rather than data comm "housekeeping." The host loads the user-specified line control algorithms (routines) defined through the Interactive Datacomm Configurator (IDC) into the network support processor (NSP) and, through the NSP, loads the line adapter control routines into the line support processor (LSP). The line control routines provide services, such as line error handling and error recovery, to user programs.

The following manuals have relevant information about this product:

- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Disk Subsystem Administration and Operations Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Configuration Guide*
- *A Series System Software Support Reference Manual*
- *B 1000 Series to A Series Progression Guide*

NEWP

NEWP is a variation of ALGOL and is used to write the operating system and system utility programs. NEWP provides additional language features that go beyond ALGOL capabilities, such as modules and more extensive data typing. NEWP can also be used for applications programming.

The following manuals have relevant information about this product:

- *A Series Binder Programming Reference Manual*
- *A Series System Software Utilities Operations Reference Manual*

NSPDUMPANALYZER Utility

You can use the NSPDUMPANALYZER utility to obtain formatted listings of network support processor (NSP) memory dumps.

For additional information about NSPDUMPANALYZER, refer to the following manual:

- *A Series Software Release Installation Guide*

On-Line Data Entry System (ODESY)

ODESY provides a method for easy entry, manipulation, and retrieval of data.

For additional information about ODESY, refer to the following manuals:

- *A Series On-Line Data Entry System (ODESY) Installation Reference Manual*
- *A Series On-Line Data Entry System (ODESY) Terminal Operator's Manual*

Operations Control Manager (OCM)

InfoExec OCM provides an integrated, menu-driven approach to the operation and control of SIM and DMSII databases. Among the features OCM provides are integrated menu interface, online and batch operation, and review capability.

You do not have to remember syntax if you are a database administrator using OCM; menus guide you through long, complex commands so that you do not need to refer to reference manuals. In cases where you are familiar with the syntax, OCM enables you to bypass the menus and enter the command syntax directly.

For additional information about OCM, refer to the following manual:

- *A Series Data Management Functional Overview*

Operator Display Terminal (ODT)

The operator display terminal (ODT) is an alternative to the MARC operations interface. It is command-driven and gives you access to all the system commands that are available through MARC. The ODT interface also gives you access to the automatic display mode (ADM) and primitive commands that are not available in MARC. (Primitive commands are special system commands that are used to restore normal system operations if the system ceases responding to other system commands.)

When you initiate ADM, the system automatically displays information such as the status of processes, system messages, memory and processor utilization statistics, and status of peripheral units. ADM displays several types of information on a single screen and updates the display automatically. You can specify which types of information are to be displayed and how often the display is to be updated.

You can also use the ODT interface to submit Work Flow Language (WFL) jobs or to run utility programs.

The ODT interface is available only at system consoles and at data comm terminals that have been authorized for use as remote ODT stations. The ODT interface automatically provides privileged access to system commands without any required log-on procedure. This interface is a convenient and appropriate one for experienced operations personnel, but is not intended for general use by all users. System security features enable you to restrict access to the ODT interface if necessary.

For additional information about the ODT interface, refer to the following manual:

- *A Series System Commands Operations Reference Manual*

Pascal

Pascal is a block-structured, general-purpose language. The A Series Pascal implementation is based on the ANSI/Institute of Electrical and Electronics Engineers (IEEE) standard 77OX3.97-1982 and on the International Standards Organization (ISO) 7185 Level 0.

The following manuals have relevant information about this product:

- *A Series Binder Programming Reference Manual*
- *A Series Data Management Functional Overview*
- *A Series Pascal Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series System Software Utilities Operations Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

PATCH Utility

PATCH is an ALGOL utility used to merge one or more patch decks into a single patch deck on disk, which can then be used as the input file for an ALGOL, COBOL, COBOL74, COBOL85, DCALGOL, FORTRAN, NDLII, NEWP, Pascal, or RPG compilation.

The following manuals have relevant information about this product:

- *A Series Editor Operations Guide*
- *A Series Generalized Message Control System (GEMCOS) Operations Guide*
- *A Series System Software Utilities Operations Reference Manual*

Peripheral Test Driver (PTD)

The peripheral test driver (PTD) is an operating system procedure used to run confidence and diagnostic tests on data link processors (DLPs), peripheral devices, and bad disk files. PTD uses a series of code files containing operation codes, one file for each type of DLP and peripheral that Unisys supplies. Within each code file are numerous individual tests, each of which performs an operation appropriate for that device. When you use PTD, you can specify the tests you want performed as well as the device to test.

For additional information about PTD, refer to the following manual:

- *A Series System Software Support Reference Manual*

Physical Unit Type 2 (PUT2) Gateway

The PUT2 Gateway enables a CP 2000 or a CPDLP to act as a physical unit type 2 (PUT2) node in an SNA network. A PUT2 node is a basic SNA node, capable of exchanging data with the network, but subject to the control of a system services control point (SSCP) elsewhere in the network.

For more information about the PUT2 Gateway, refer to the following manuals:

- *A Series CP 2000/CPDLP SNA PUT2 Implementation Guide*
- *A Series CP 2000/CPDLP SNA PUT2 Operations Guide*

Physical Unit Type 5 (PUT5) Gateway

The PUT5 Gateway enables a CP 2000 to act as a physical unit type 5 (PUT5) node in an SNA network. (CPDLPs cannot run PUT5 Gateway software.) A PUT5 node has the capabilities of a PUT2 node, and also can function as a system services control point (SSCP). A CP 2000 with PUT5 can also serve as a link between terminals compatible with IBM terminals and an SNA network.

The following manuals have relevant information about this product:

- *A Series CP 2000 SNA PUT5 Implementation Guide*
- *A Series CP 2000 SNA PUT5 Operations Guide*

PL/I

PL/I is a general-purpose language. It enables you to write statements in a free-field format. It contains the basic characteristics common to problem-oriented languages as well as many of the unique features of various predecessor languages.

The following manuals have relevant information about this product:

- *A Series Binder Programming Reference Manual*
- *A Series PL/I Reference Manual*

Print System (PrintS)

You can use PrintS to control the printer to which the file is sent and the number of copies printed; you can also control file security, the backup file title, and other file characteristics.

For additional information about the Print System, refer to the following manual:

- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*

PRINTBINDINFO Utility

The PRINTBINDINFO utility is used to print an analysis of the encoded information (called *bindinfo*) within a code file. This information is used by the Binder when binding the code file. The PRINTBINDINFO utility can be initiated from a WFL job or from CANDE.

For additional information about PRINTBINDINFO refer to the following manual:

- *A Series Binder Programming Reference Manual.*

PROGRAMDUMP Facility

The PROGRAMDUMP facility provides a method for capturing information about the status of your program at the time it failed, including the names and contents of all variables and arrays. You can use statements in the program to specify the circumstances under which a program dump should be generated and the types of information that should be included in the program dump. You can direct the program dump to a printer or to a disk file for later analysis by the DUMPANALYZER utility. DUMPANALYZER can produce reports on various aspects of the data collected.

The following manuals have relevant information about this product:

- *A Series ALGOL Test and Debug System (TADS) Programming Guide*
- *A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide*
- *A Series FORTRAN77 Test and Debug System (TADS) Programming Guide*

Progression Aids

See "BTA370 Migration Aids" earlier in this section.

Remote Job Entry (RJE)

A remote job entry system enables distant locations to input data to a central data processing system and to receive the required output. High-speed transmission lines and small terminal processors at the remote site provide the methods.

The following manuals have relevant information about this product:

- *A Series Remote Job Entry (RJE) Reference Manual*
- *A Series Security Administration Guide*
- *A Series SNA RJE Implementation and Operations Guide*
- *A Series SNA 3270 Terminal Emulator Installation and Administration Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

Remote Print System (ReprintS)

ReprintS extends the features of PrintS to include printers at remote destinations that are connected to the host computer through data comm lines. To use ReprintS, you must have the full-featured version of COMS.

For additional information about ReprintS, refer to the the following manual:

- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*

Report Program Generator (RPG)

RPG is a language for accessing and processing data and specifying the type and format of reports to generate using this data.

The following manuals have relevant information about this product:

- *A Series KEYEDIOII Programming Reference Manual*
- *A Series Report Program Generator (RPG) Programming Reference Manual, Volume 1: Basic Implementation*
- *A Series Report Program Generator (RPG) Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Report Program Generator (RPG) Programming Template*

REPORTER III

REPORTER III provides an effective means for creating a wide variety of management reports from information maintained on an A Series system.

The following manuals have relevant information about this product:

- *Online REPORTER III User's Guide*
- *REPORTER III Reference Card*
- *REPORTER III Report Language Operations Guide*
- *REPORTER III Vocabulary Language Operations Guide*

RESTRICT System Command

The RESTRICT (Restrict Unit or Volume) system command enables you to prevent users from importing programs from other systems without authorization. You can use RESTRICT to specify that files copied from particular sources, such as particular tape units, are restricted. If a code file originates from a restricted source, then no one can run that code file, no matter where the file is currently located. Only a system operator can remove the restriction by using another form of the RESTRICT command.

Restrictions against writing to code files and importing code files thwart many computer viruses.

For additional information about the RESTRICT system command, refer to the following manual:

- *A Series Security Features Operations and Programming Guide*

RLTABLEGEN Utility

The RLTABLEGEN utility enables the system to accept nonstandard tape labels by constructing value arrays and compiling them into the master control program (MCP).

For additional information about RLTABLEGEN, refer to the following manual:

- *A Series System Software Utilities Operations Reference Manual*

Screen Design Facility (SDF)

SDF, a component of the InterPro™ family of products, provides comprehensive capabilities in the development and maintenance of display screen formats, thus removing that responsibility from the application program.

The following manuals have relevant information about this product:

- *A Series Screen Design Facility (SDF) Capabilities Manual*
- *A Series Screen Design Facility (SDF) Operations and Programming Guide*

Screen Design Facility Plus (SDF Plus)

SDF Plus enables you to define and control all elements of the user interface. The application program no longer has the responsibility for managing the user interface. SDF Plus also enables you to transfer all user interface functions to a workstation, thus freeing mainframe resources and gaining greater response time.

The following manuals have relevant information about this product:

- *A Series Screen Design Facility Plus (SDF Plus) Capabilities Manual*
- *A Series Screen Design Facility Plus (SDF Plus) Installation and Operations Guide*
- *A Series Screen Design Facility Plus (SDF Plus) Technical Overview*

Semantic Information Manager (SIM)

SIM is the core of the InfoExec family. SIM is a database management system developed specifically to meet the needs of an A Series data processing environment. The InfoExec

InterPro is a trademark of Unisys Corporation.

products enable you to perform data management tasks such as data definition, data retrieval, and system operations for a SIM system.

The following manuals have relevant information about this product:

- *A Series Advanced Data Dictionary System (ADDS) Operations Guide*
- *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Data Management Functional Overview*
- *A Series InfoExec Capabilities Manual*
- *A Series InfoExec Interactive Query Facility (IQF) Operations Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Programming Guide*
- *A Series InfoExec Semantic Information Manager (SIM) Technical Overview*
- *A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces*
- *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide*

SETSTATUS Routine

SETSTATUS is an intrinsic routine within the master control program (MCP). It provides the system interface for an object program that controls the operating system mix, unit, and operational functions. It can be called only by a DCALGOL message control system (MCS) or a DCALGOL user program executing under a privileged usercode or with privileged program status. An exception to this restriction is the GETSTATUS directory query function. GETSTATUS can be used by a nonprivileged user to examine data about files accessible to that usercode.

The following manuals have relevant information about this product:

- *A Series GETSTATUS/SETSTATUS Programming Reference Manual*
- *A Series Security Features Operations and Programming Guide*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

SIM Design Assistant (SDA)

The InfoExec SIM Design Assistant (SDA) is a Unisys Personal Workstation^2 product that provides a lower CASE technology environment for designing and developing SIM-based information systems. It uses a graphical interface to automate the process of designing, representing, and modifying SIM databases. SIM Design Assistant can operate in two modes:

- In a standalone mode on intelligent PC or compatible workstations
- Integrated with a host mainframe system to allow transfer of SIM schemas and generation of SIM databases on the host system

The following capabilities are available:

- Multiple views of the schema, including the commonly used graphical images
- Icons that graphically convey SIM database schema details
- Graphical reports of a SIM schema
- Online design error detection

For information about using SDA, refer to the following manual:

- *Personal Workstation^2 InfoExec Semantic Information Manager (SIM) Design Assistant (SDA) Operations Guide*

SIM Object Definition Language (ODL)

The InfoExec SIM Object Definition Language (ODL) can be used by SIM database administrators to define a SIM database by specifying the schema directly in a text file. The schema file can then be processed by means of the SIM utility to create or maintain a SIM database.

The following manual has relevant information about this product:

- *A Series InfoExec Semantic Information Manager (SIM) Object Definition Language (ODL) Programming Guide*

Simple Installation (SI)

Simple Installation (SI) is a program especially designed to assist you with copying and installing A Series system and environmental software. SI works in conjunction with features newly incorporated into the A Series system software packaging for the Mark 3.9 release. When used with these features, the SI program drastically reduces the labor hours needed to install a release by automating much of the installation process. As a result, the number of tapes that make up a release package is reduced by as much as half, and the potential for installation mistakes and systems complications is minimized.

The following manuals have relevant information about this product:

- *A Series Communications Management System (COMS) Configuration Guide*
- *A Series Software Release Installation Guide*
- *A Series System Commands Operations Reference Manual*

SORT Language

The SORT intrinsic is a procedure in the MCP that sorts a file or a set of records into a single file of ordered records, or merges a set of presorted files into a single ordered file. SORT can be called from ALGOL, COBOL, COBOL74, COBOL85, and PL/I programs or from the SORT language. The SORT language exists to enable you to sort or merge

files through direct access to the MCP SORT procedure. SORT programs can be created through CANDE or WFL, and can be stored for later use.

For additional information on SORT, refer to the following manuals:

- *A Series SORT Language Programming Reference Manual*
- *A Series System Software Utilities Operations Reference Manual*

Structured Query Language Database (SQLDB)

The InfoExec Structured Query Language Database (SQLDB) is compliant with both the SQL-86 and SQL-89 ANSI standards at Level 2. It supports

- SQL data definition language (DDL)
- SQL data manipulation language (DML)
- SQL module language

The implementation provides full support for relational databases on A Series systems.

The ANSI standard portion of SQLDB enables you to specify tables, columns, and views as well as to specify security through the standard GRANT capability. Specifying security enables you to control what a user can see. A Series extensions enable you to specify indexes and to express physical options for tuning the database.

The following manual has information about this product:

- *A Series InfoExec Structured Query Language Database (SQLDB) Programming Guide*

SUMLOG File

The SUMLOG file contains records concerning jobs that have previously run, operating system activity, and other associated information regarding the past status of the machine environment.

The following manuals have relevant information about this product:

- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide*
- *A Series Security Administration Guide*
- *A Series System Commands Operations Reference Manual*
- *A Series System Software Support Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*

System Assistant

System Assistant is a general-purpose supervisor program that a user can modify to meet the needs for a particular site. Some of the capabilities are:

- Maintains a consistent system configuration
- Identifies typical problems that System Assistant should look for and the steps that System Assistant should take to resolve them
- Directs when system initialization should take place

The following manual has relevant information about this product:

- *A Series System Assistant Programming and Operations Guide*

System Commands

You can enter system commands directly through a system console or through MARC on either a system console or a remote terminal. A few system commands are privileged and can be entered only through a system console. However, all commands entered through MARC are subject to security checking. In normal system console mode, a system console is a privileged device, that is, commands entered through it have privileged status. In addition, anyone using a system console can enter commands without logging on to the system; therefore, a command is not associated with a usercode.

For additional information about system commands, refer to the following manual:

- *A Series System Commands Operations Reference Manual*

System Management Facility II (SMFII)

The System Management Facility II (SMFII) is a software system that monitors and provides data on four areas of system performance:

- Hardware performance
- Software performance
- Workload characterization
- System utilization

The following manuals have relevant information about this product:

- *A Series Memory Subsystem Administration and Operations Guide*
- *A Series Security Administration Guide*
- *A Series System Management Facility II (SMFII) Query Operations Guide*
- *A Series System Management Facility II (SMFII) Resource Management Operations Reference Manual*

- *A Series Work Flow Language (WFL) Programming Reference Manual*
- *B 1000 Series to A Series Progression Guide*

Systems Network Architecture (SNA)

Systems Network Architecture (SNA) is a type of network widely used by IBM and IBM-compatible systems. A Series hosts and terminals can be linked into an SNA network through any of several SNA products, including the SNA Gateway, the SNA Logical Unit Type 6.2 (LU6.2) Service manager, the SNA 3270 terminal emulator, and SNA remote job entry (SNA/RJE).

Some of these products require BNA Version 2 software and CP 2000s or CPDLPs. Others can be run with DCDLPs and no supporting BNA software.

For additional information about a specific SNA product, refer to the product in this section.

Systems Network Architecture (SNA) Logical Unit Type 6.2 (LU6.2) Service Manager

The SNA LU6.2 Service Manager enables an A Series application program to communicate with a peer application program in a remote SNA network. The A Series host is linked to the SNA network through a CP 2000 or CPDLP. The A Series host must be running BNA Version 2 software, and the CP 2000 or CPDLP must be equipped with PUT2 Gateway or PUT5 Gateway software.

For additional information about LU6.2, refer to the following manuals:

- *A Series SNA LU6.2 Service Manager Implementation and Operations Guide*
- *A Series SNA LU6.2 Service Manager Programming Guide*
- *A Series SNA LU6.2 Service Manager Programming Reference Manual*

Systems Network Architecture (SNA) Remote Job Entry (RJE) Emulator

The SNA/RJE emulator enables you to submit jobs from disk for execution, compilation, or both on an IBM host. It can link an A Series host to an SNA network using either DCDLPs or BNA Version 2 communications processors (CP 2000s or CPDLPs).

For additional information about the SNA/RJE emulator, refer to the following manual:

- *A Series SNA RJE Implementation and Operations Guide*

Systems Network Architecture (SNA) 3270 Terminal Emulator

The SNA 3270 terminal emulator enables you to use Unisys terminals in a session with an IBM host, interacting with a wide variety of IBM mainframe applications. It also enables you to use the system print facility to print the information received and generated during the session. The SNA 3270 terminal emulator can link an A Series host to an SNA network through a DCDLP, a CP 2000, or a CPDLP.

For additional information about the SNA 3270 terminal emulator, refer to the following manuals:

- *A Series SNA 3270 Terminal Emulator Implementation and Administration Guide*
- *A Series SNA 3270 Terminal Emulator Operations and Programming Guide*

SYSTEMSTATUS Routine

SYSTEMSTATUS is an intrinsic MCP routine that gathers many different types of information concerning the activity and environment of the system. SYSTEMSTATUS returns groups of related information, locking the system while it extracts the data. You use SYSTEMSTATUS when you want comprehensive information concerning a particular area of the system, such as job queue or hardware configuration information.

For additional information about SYSTEMSTATUS, refer to the following manual:

- *A Series SYSTEMSTATUS Programming Reference Manual*

Test and Debug System (TADS)

The Test and Debug System (TADS) is an interactive tool for testing and debugging programs and libraries. Through TADS, the programmer can control the execution of the software under test and examine the data at any given point during program execution. Interaction with TADS is accomplished in terms familiar to programmers, such as paragraph names, variable names, and source statement sequence numbers. With TADS, programmers do not have to be familiar with the details of the hardware architecture of a particular system.

The following manuals have relevant information about this product:

- *A Series ALGOL Test and Debug System (TADS) Programming Guide*
- *A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide*

Transaction Processing System (TPS)

TPS provides a framework and methods for implementing an application system for high-volume, online transaction processing. It does this by tracking all input transactions

that access the database, and by processing transactions on a database that resides on a remote system using a BNA network. TPS also enables you to batch data for later processing.

The following manuals have relevant information about this product:

- *A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series COBOL ANSI-68 Programming Reference Manual*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide*
- *A Series Data Management Functional Overview*
- *A Series DMSII Transaction Processing System (TPS) Programming Guide*
- *A Series Generalized Message Control System (GEMCOS) Operations Guide*

Transmission Control Protocol/Internet Protocol (TCP/IP)

Transmission Control Protocol/Internet Protocol (TCP/IP) is the informal name given to a family of protocols that were originally developed for use in a United States Department of Defense network. The best known US Department of Defense networks that use TCP/IP protocols are the Advanced Research Projects Agency Network (ARPANET) and the Military Network (MILNET). The TCP/IP protocols have been published as Military Standards specifications and have become one of the most widely used of non-vendor-specific networking protocols.

The Unisys A Series Transmission Control Protocol/Internet Protocol (TCP/IP) product set implements the most popular of the TCP/IP protocols. Using TCP/IP, you can link A Series systems with other A Series systems, with Unisys 1100 or 5000 Series systems, or with other vendors' systems. The TCP/IP product set consists of TCP/IP Interprocess Communications (IPC) software, TCP/IP Local Area Network (LAN) software, TCP/IP X.25 software, and TCP/IP Host Services.

This product adds the standard TCP/IP application set consisting of Telecommunications Network Protocol (TELNET), File Transfer Protocol (FTP), the WFL COPY statement from a MARC or CANDE session or from the ODT interface, and Simple Mail Transfer Protocol (SMTP).

To use TCP/IP, you must have the TCP/IP Interprocess Communications product and either or both of the TCP/IP LAN software and TCP/IP X.25 software products. The TCP/IP Host Services product is an optional component that extends the services provided by TCP/IP.

The following manuals have relevant information about this product. Note that the *A Series Distributed Systems Service (DSS) Operations Guide* includes information about File Transfer Protocol file transfer and TELNET station transfer.

- *A Series Distributed Systems Service (DSS) Operations Guide*
- *A Series Mail System Installation and Administration Guide*
- *A Series Mail System Operations Guide*
- *A Series TCP/IP Implementation Guide*

UTILOADER Utility

UTILOADER performs several initialization functions such as loading NEWP stand-alone programs from library maintenance tapes or from packs, and displaying configuration information.

For additional information about UTILOADER, refer to the following manual:

- *A Series Operating System Installation Guide*

Work Flow Language (WFL)

The Work Flow Management system includes the master control program (MCP), the WFL compiler, and the CONTROLLER. You can create a job by writing a program in WFL. This high-level control language is not a substitute for regular application languages, but is used in addition to them.

The following manuals have relevant information about this product:.

- *A Series BNA Version 2 User Program Agent Programming Guide*
- *A Series CANDE Operations Reference Manual*
- *A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces*
- *A Series Help Utility Operations Guide*
- *A Series Remote Job Entry (RJE) Reference Manual*
- *A Series System Commands Operations Reference Manual*
- *A Series Work Flow Language (WFL) Programming Reference Manual*
- *B 1000 Series to A Series Progression Guide*

Workstation Query Facility (WQF)

InfoExec WQF is a convenient workstation-based product that provides easy access to a Semantic Information Manager (SIM) database even if you are not familiar with data processing. With WQF, you can view and update SIM databases without using

cumbersome data manipulation language syntax. You can use WQF on the Unisys B 25 Series and XE520 Series workstations, as well as on the Unisys PC family, the IBM PC, and compatible products. The interface to SIM databases provided by WQF enables you to see multiple views of a database on the workstation simultaneously.

The following manuals have relevant information about this product:

- *A Series Data Management Functional Overview*
- *Workstations InfoExec Workstation Query Facility (WQF) Operations Guide*

X.25 MCS

The X.25 message control system (X.25 MCS) is a general purpose message control system. It interfaces with public data networks using the X.25 protocol recommended by the Consultative Committee on International Telegraphy and Telephony (CCITT).

The following manual has relevant information about this product:

- *A Series X.25 MCS Operations and Programming Reference Manual*

XREFANALYZER Utility

XREFANALYZER is a utility that produces cross-reference information containing an alphabetized list of identifiers that appear in a program. For each identifier, the type of the variables named by that identifier, the sequence number of the input record on which the variable is declared, the sequence numbers of the input record on which the variable is referenced, and other relevant information are written either to a printer or to a disk file.

The following manual has relevant information about this product:

- *A Series System Software Utilities Operations Reference Manual*

Section 5
Document Descriptions

This section lists the published A Series documents, plus some documents that describe products that are used with A Series systems. The documents are listed in alphabetical order by their full titles. For each document, the following information is provided:

- The long title and the form number of the document
- A description of the document contents
- A description of the audience, if this is not clear from the document title
- Where applicable, an explanation of how this document fits into a particular product library (such as the InfoExec library)
- A mention of any strong interdependencies with other manuals

A Series A 1–A 6 Systems Software Installation Guide

Form number: 8600 1468

This guide describes the initial installation of system software on A 1, A 2, A 3, A 4, A 5, and A 6 systems. It includes procedures for system software installation and initialization, for recovering from unusual conditions during system initialization, and for dealing with problems with dual-processor systems. It describes the use of the system control terminal (SCT) and the maintenance subsystem. This guide is written for personnel responsible for the initial installation of system software on A 1 through A 6 systems.

A Series A 5 System Operations Guide

Form number: 2036059

This guide provides information required to operate and support an A 5 system during both normal and abnormal operating conditions. This guide is intended for persons responsible for the day-to-day operation of an A 5 system.

A Series A 12 System Operating Guide

Form number: 3950 8882

This guide describes the procedures for initializing an A 12, procedures for establishing remote support on an A 12, and methods used to monitor the system. This guide is written for system operators and support personnel.

A Series A 15 System Operating Guide

Form number: 1203718

This guide describes the procedures for initializing an A 15, procedures for establishing remote support for an A 15, and methods used to monitor the system. This guide is written for system operators and support personnel.

A Series A 16 System Operations and Programming Reference Manual

Form number: 3950 8833

This manual provides supplemental information concerning operations and programming on the A 16 that are not captured in the manuals and guides for all the A Series systems.

A 17 System Console Operating Guide

Form number: 1201258

This guide describes how an operator interacts with the A 17 system. It describes how to bring the A 17 to a running state and how to interact with the maintenance subsystem. This guide is written for system operators and support personnel.

A Series ALGOL Programming Reference Manual, Volume 1: Basic Implementation

Form number: 8600 0098

This manual describes the basic features of the Extended ALGOL programming language. This manual is written for programmers who are familiar with programming concepts.

A Series ALGOL Programming Reference Manual, Volume 2: Product Interfaces

Form number: 8600 0734

This manual describes the extensions to the Extended ALGOL language that allow application programs to use the Advanced Data Dictionary System (ADDS), the Communications Management System (COMS), the Data Management System II (DMSII), the Screen Design Facility Plus (SDF Plus), or the Semantic Information Manager (SIM). This manual is written for programmers who are familiar with Extended ALGOL programming language concepts and terms.

A Series ALGOL Test and Debug System (TADS) Programming Guide

Form number: 1169539

This guide describes the features of ALGOL TADS, an interactive tool used for testing and debugging ALGOL programs and libraries. ALGOL TADS enables the programmer to monitor and control the execution of programs under test and examine the data at any point during program execution. This guide is written for programmers who are familiar with ALGOL programming language concepts and terms.

A Series APLB Programming Reference Manual

Form number: 1203643

This manual describes the syntax and semantics, installation procedures, and utilities of APLB.

A Series BASIC Programming Reference Manual

Form number: 1203650

This manual describes the BASIC programming language as used on A Series systems. This manual is written for programmers who are familiar with programming concepts.

A Series Binder Programming Reference Manual

Form number: 8600 0304

This manual describes the functions and applications of the Binder, an efficiency tool that reduces the need to recompile an entire program when only a portion of the program has been modified. This manual is written for programmers who are familiar with programming language concepts and terms.

A Series BNA Version 1 Operations Guide

Form number: 8600 0783

This guide explains how to install and operate BNA Version 1 on A Series machines. This guide is written for computer operators who use BNA Version 1.

A Series BNA Version 1 Program Agent Programming Guide

Form number: 1169653

This guide describes the BNA Version 1 Program Agent feature and explains how to use a program agent to perform BNA Version 1 tasks. This guide is written for programmers and computer operators who use BNA program agents.

A Series BNA Version 2 Network Software Implementation Planning Guide

Form number: 3787 5408

This guide describes how to plan the implementation of BNA software for a BNA network controlled by an A Series. This guide describes the important data communications characteristics you must define for the network and for each component in the network. This guide helps you choose values for important data communications attributes set through the Network Administrative Utility (NAU): A Series CP 2000/CPDLP BNA, NCF, OSI, CP 2000/CPDLP SNA PUT2, and CP 2000 SNA PUT5. It also helps you choose attributes and parameter values for BTOS BNA, CP 2000 on V Series, and TCP/IP.

This document has been revised to include planning information for A Series OSI.

A Series BNA Version 2 Operations Guide

Form number: 1222720

This guide describes operations you can perform on A Series BNA Version 2 communications software. This guide describes basic background information and procedures that enable the user to perform routine BNA Version 2 network operations and network management functions. In addition, this guide describes troubleshooting tools and provides information that can help the user isolate and recover from common network failure conditions.

A Series BNA Version 2 User Program Agent Programming Guide

Form number: 1222723

This guide explains when to use and how to write a user program agent in a BNA Version 2 network. A user program agent is a user-written program that aids in the management of a BNA system or network. It is used to perform one or more operations or administrative tasks that can be repetitive and tedious. User program agents perform a task by communicating with Network Services software through BNA subports.

This guide describes the protocol a user program agent must use to communicate with Network Services software.

A Series C Programming Reference Manual

Form number: 3950 8775

This manual describes the C programming language, including the A Series extensions. Where the implementation of A Series C differs from the proposed draft ANSI C standard, the differences are noted in the manual.

A Series CANDE Configuration Reference Manual

Form number: 8600 1344

This manual describes the commands used to perform CANDE control functions and data communications network control functions. It also describes how to configure CANDE to meet the resource requirements of the installation. This manual is written for system administrators and operators.

A Series CANDE Operations Reference Manual

Form number: 8600 1500

This manual describes how CANDE operates to allow generalized file preparation and updating in an interactive, terminal-oriented environment. This manual is written for a wide range of computer users who work with text and program files.

A Series Capacity Management Facility.Disk Operations Guide

Form number: 1221358

This guide provides all of the descriptive and procedural information necessary to use the Capacity Management Facility.Disk (CMF.Disk) modeling system to monitor disk performance and predict the results of changes in disk configuration. The guide describes how to use the product to identify potential sources of I/O delay and alleviate their effects.

A Series Capacity Management Facility.Disk Operations Training Guide

Form number: 1221050

This guide provides 16 training exercises designed to help you become familiar enough with Capacity Management Facility.Disk (CMF.Disk).

A Series COBOL ANSI-68 Programming Reference Manual

Form number: 8600 0320

This manual provides a complete description of COBOL as developed by the CODASYL Committee and described by the American National Standards Institute in X3.23-1968. This manual is written for programmers who are familiar with programming concepts.

A Series COBOL ANSI-74 Programming Reference Manual, Volume 1: Basic Implementation

Form number: 8600 0296

This manual describes the basic features of the standard COBOL ANSI-74 programming language, which is fully compatible with the American National Standard, X3.23-1974. This manual is written for programmers who are familiar with programming concepts.

A Series COBOL ANSI-74 Programming Reference Manual, Volume 2: Product Interfaces

Form number: 8600 0130

This manual describes the extensions to the standard COBOL ANSI-74 language. These extensions are designed to allow application programs to interface with the Advanced Data Dictionary System (ADDS), the Communications Management System (COMS), the Data Management System II (DMSII), the DMSII Transaction Processing System (TPS), the Screen Design Facility (SDF), the Screen Design Facility Plus (SDF Plus), and Semantic Information Manager (SIM) products. This manual is written for programmers who are familiar with COBOL74 programming language concepts and terms.

A Series COBOL ANSI-74 Test and Debug System (TADS) Programming Guide

Form number: 1169901

This guide documents the COBOL74 TADS, an interactive tool for testing and debugging COBOL74 programs and libraries. This guide is written for programmers familiar with COBOL74 programming language concepts and terms.

A Series COBOL ANSI-85 Programming Reference Manual, Volume 1: Basic Implementation

Form number: 8600 1518

This manual describes the basic features of the COBOL ANSI-85 programming language, as implemented on Unisys A Series systems. This manual is written for programmers who are familiar with programming concepts.

A Series COBOL ANSI-85 Programming Reference Manual, Volume 2: Product Interfaces

Form number: 8600 1526

This manual describes the extensions to the standard COBOL85 language. These extensions are designed to allow application programs to interface with the Communications Management System (COMS) and Data Management System II (DMSII) products. This manual is written for programmers who are familiar with COBOL85 programming language concepts and terms.

A Series Communications Management System (COMS) Capabilities Manual

Form number: 8600 0627

This manual introduces COMS, discusses the flexibility and efficiency of the COMS system, describes the COMS architecture, and discusses specific features available to the COMS user. This manual is written for upper management, the site manager, and the programming staff.

A Series Communications Management System (COMS) Configuration Guide

Form number: 8600 0312

This guide provides an overview of the basic concepts and functions of COMS. It includes instructions for creating a working COMS configuration and information on how to monitor and fine-tune COMS system performance. This guide is written for installation analysts, systems analysts, programmers, administrators, and performance analysts.

A Series Communications Management System (COMS) Documents Index

Form number: 8600 0635

This manual provides an easy method for finding information in the COMS guides by listing the index entries from the COMS manuals: Configuration Guide, Migration Guide, Operations Guide, and Programming Guide. It is written for any user of A Series documentation.

A Series Communications Management System (COMS) Migration Guide

Form number: 8600 1567

This guide explains how to migrate from existing message control systems (MCSs) to the current release of COMS. This guide is written for system administrators and system programmers who are responsible for the migration of their site to COMS.

A Series Communications Management System (COMS) Operations Guide

Form number: 8600 0833

This guide explains how to perform terminal-based COMS functional tasks and serves as a reference to COMS commands. Syntax diagrams of COMS commands are provided with explanations and examples of how the commands can be used. This guide is written for terminal operators and computer operators.

A Series Communications Management System (COMS) Programming Guide

Form number: 8600 0650

The guide explains how to write online, interactive, and batch application programs that run under COMS. This guide is written for experienced applications programmers with knowledge of data communication subsystems.

A Series CP 2000 BNA Version 2 Implementation Guide

Form number: 1222727

This guide provides information for installing and configuring a basic A Series CP 2000 BNA Version 2 network using the Network Administrative Utility (NAU). A basic network consists of one A Series host, one CP 2000, and several lines and terminals. This guide also provides a brief description of the tasks you might need to perform while configuring a more complex network.

A Series CP 2000 SNA PUT5 Implementation Guide

Form number: 1225440

This guide describes how to install and configure A Series CP 2000 SNA PUT5 into a basic existing BNA Version 2 network using the NAU.

A Series CP 2000 SNA PUT5 Operations Guide

Form number: 1225441

This guide describes how to perform routine A Series CP 2000 SNA PUT5 network operations, including resource management and definition. This guide also describes how to troubleshoot hardware and software problems.

A Series CP 2000/CPDLP SNA PUT2 Implementation Guide

Form number: 1225443

This guide describes how to install and configure A Series CP 2000/CPDLP SNA PUT2 into a basic existing BNA Version 2 network using the Network Administrative Utility (NAU).

A Series CP 2000/CPDLP SNA PUT2 Operations Guide

Form number: 1225444

This guide describes how to perform routine A Series CP 2000/CPDLP SNA PUT2 network operations, including resource management and definition. This guide also describes how to troubleshoot hardware and software problems.

A Series CPDLP BNA Version 2 Implementation Guide

Form number: 1222731

This guide provides the information for installing and configuring a simple A Series CPDLP BNA Version 2 network using the NAU. A basic network contains one A Series host, one CPDLP, up to six BSTD poll/select lines connected to TDI line interfaces on the CPDLP, and up to 60 terminals connected to the lines. This guide also provides a brief description of the tasks that you might need to perform while configuring a more complex network.

A Series Data Base Transfer (DBT) Utility Operations Guide

Form number: 1180585

This guide explains how to transfer data from a B 1000 Series Data Management System II (DMSII) database to an A Series DMSII database. This manual is written for database administrators and programmers.

A Series Data Comm Processor (DCP) to Network Support Processor (NSP) Configuration Conversion Operations Guide

Form number: 1182193

This guide describes how to use an interactive, menu-driven utility to transform the configuration section of a DCP data comm network to the configuration section of an NSP data comm network.

A Series Data Communications Protocols Installation and Implementation Guide

Form number: 8600 0486

This guide describes the purpose of protocols and procedures for installing protocols. It also provides reference material useful in interpreting dumps associated with data communications data link processors (DCDLPs), enhanced data communications data link processors (EDCDLPs), and data communications adapters (DCAs). This guide is written for system analysts and operations specialists who work with data communications.

A Series Data Management Functional Overview

Form number: 8600 0239

This overview covers the entire spectrum of the A Series data management environment. It presents an overview of the Data Management System II (DMSII), Structured Query Language Database (SQLDB), and Semantic Information Manager (SIM). Each database management system (DBMS) is discussed as a stand-alone product and also as a member of the InfoExec database management environment. This overview is written for database administrators, data dictionary administrators, application programmers, and novice end users.

A Series DCALGOL Programming Reference Manual

Form number: 8600 0841

This manual describes the Data Communications ALGOL (DCALGOL) language. This language is designed to support the implementation of message control systems (MCSs) and other resource monitoring and controlling programs that require access to special operating system interfaces. This manual is written for systems programmers.

A Series DiagnosticMCS Reference Manual

Form number: 1169596

This manual describes the functions and commands of DiagnosticMCS, a message control system (MCS) that can be used to test and verify the data comm subsystem. This manual is written for experienced programmers who are familiar with data communications concepts and terminology.

A Series Disk Cache Module Installation and Operating Guide

Form number: 3950 8874

This guide describes how to install and operate the Disk Cache Module.

A Series Disk Subsystem Administration and Operations Guide

Form number: 8600 0668

This guide describes the logical structure and the operation of the disk subsystem. It explains disk subsystem concepts and terminology; explains the benefits and requirements of Cataloging, Mirrored Disk, and Memory Disk; and describes system messages displayed during directory management procedures. This guide is written for operations center managers, senior operators, and systems programmers.

A Series Distributed Systems Service (DSS) Operations Guide

Form number: 8600 0122

This guide describes the capabilities and features of DSS. It is intended for system operators, system administrators, and general computer users.

A Series DMALGOL Programming Reference Manual

Form number: 8600 0874

This manual describes the extensions to the ALGOL language that support the development of Data Management System II (DMSII) system software. The manual is intended for programmers who develop and maintain system software.

A Series DMSII Application Program Interfaces Programming Guide

Form number: 5044225

This guide explains how to write effective and efficient application programs that access and manipulate a Data Management System II (DMSII) database using either the DMSII interpretive interface or the DMSII language extensions. This guide is written for application programmers and database administrators who are already familiar with the basic concepts of DMSII.

A Series DMSII Data and Structure Definition Language (DASDL) Programming Reference Manual

Form number: 8600 0213

This manual provides instructions for defining and maintaining a Data Management System II (DMSII) database using DASDL. This manual is written for database administrators and staff.

A Series DMSII Documents Index

Form number: 8600 1443

This document is a comprehensive index composed of entries that reflect the DMSII documents and portions of other documents relevant to DMSII. The index is intended to help anyone using a DMSII product.

A Series DMSII Interpretive Interface Programming Reference Manual

Form number: 8600 0155

This manual details the Data Management System II (DMSII) interpretive interface functions, including generating the DMINTERPRETER library, using entry points, and coding application programs. This manual is written for application programmers and database administrators who are already knowledgeable in the basic concepts of DMSII.

A Series DMSII Technical Overview

Form number: 5044191

This overview describes the Data Management System II (DMSII) environment, which includes DMSII databases and software. This overview is written for end users, system programmers, database designers, and database administrators who need information on creating, changing, restoring, accessing, and maintaining a DMSII database.

A Series DMSII Transaction Processing System (TPS) Programming Guide

Form number: 1164043

This guide describes the various modules of TPS and provides information on the TPS library of transaction processing procedures. This guide is intended for experienced systems programmers who are familiar with Data Management System II (DMSII).

A Series DMSII Utilities Operations Guide

Form number: 8600 0759

This guide describes how to maintain relationships between data elements in a Data Management System II (DMSII) database. This guide is written for database administrators and programmers who are responsible for database integrity and recovery.

A Series Documentation Library Overview

Form number: 8600 0361

This overview describes the library of A Series software documentation. It also provides an explanation of titling conventions, the procedure for ordering documentation, and an introduction to online documentation and its role in A Series product documentation. This overview is written for all users of A Series systems.

A Series Editor Operations Guide

Form number: 8600 0551

This guide describes the operation of the Editor, an interactive tool for creating and modifying text and program files. This guide is written for experienced and inexperienced users who are responsible for creating and maintaining text and program files.

A Series Extended Retrieval with Graphic Output (ERGO) Operations Guide

Form number: 8600 0205

This guide explains how to use ERGO to access Data Management System II (DMSII) databases. This guide is written for managers, programmers, analysts, and support personnel involved in preparing reports from information in DMSII databases.

A Series File Attributes Programming Reference Manual

Form number: 8600 0064

This manual contains information about each file attribute and each direct I/O buffer attribute. The manual is written for programmers and operations personnel who need to understand the functionality of a given attribute. The *A Series I/O Subsystem Programming Guide* is a companion manual.

A Series FORTRAN Programming Reference Manual

Form number: 1222691

This manual describes the FORTRAN IV programming language. This manual is written for programmers who are familiar with programming concepts.

A Series FORTRAN77 Programming Reference Manual

Form number: 3950 8759

This manual describes the FORTRAN 77 programming language, which is fully compatible with the American National Standard X3.9-1978. This manual is written for programmers who are familiar with programming concepts.

A Series FORTRAN77 Test and Debug System (TADS) Programming Guide

Form number: 1222667

This guide describes an interactive tool for testing and debugging FORTRAN77 programs and libraries. This manual is written for programmers who are familiar with FORTRAN77 programming language concepts and terms.

A Series Generalized Message Control System (GEMCOS) Format Generator Operations Guide

Form number: 1185139

This guide contains instructions for using the Format Generator. This guide is written for application programmers.

A Series Generalized Message Control System (GEMCOS) Operations Guide

Form number: 8600 0676

This guide explains how to use, manage, and maintain A Series GEMCOS message control systems (MCSs). This guide is written for application programmers and system administrators.

A Series GETSTATUS/SETSTATUS Programming Reference Manual

Form number: 8600 0346

This manual explains how to use the various GETSTATUS and SETSTATUS calls used in the DCALGOL programming language. This manual is written for experienced ALGOL programmers who are involved with data communications.

A Series Help Utility Operations Guide

Form number: 8600 0510

This guide describes how to embed Help Utility commands in text to create a helpbook source file and how to process this source file with the Help Utility. This guide is written for inexperienced and experienced computer users, and writers or translators of online help text.

A Series I/O Subsystem Programming Guide

Form number: 8600 0056

This guide contains information about how to program for various types of peripheral files and how to program for interprocess communication, using port files. This guide is written for programmers who need to understand how to describe the characteristics of a file in a program. The *A Series File Attributes Programming Reference Manual* is a companion manual.

A Series InfoExec ADDS Operations Guide

Form number: 8600 0197

This guide describes InfoExec Advanced Data Dictionary System (ADDS) operations, such as creating and managing Data Management System II (DMSII), Semantic Information Manager (SIM), and Structured Query Language (SQLDB) database descriptions. This guide is written for those who collect, organize, define, and maintain data and who are familiar with DMSII, SIM, or SQLDB.

A Series InfoExec Capabilities Manual

Form number: 8600 0254

This manual discusses the capabilities and benefits of the InfoExec data management system. This manual is written for executive and data processing management.

A Series InfoExec DMS.View Operations Guide

Form number: 8600 0775

This guide explains the InfoExec DMS.View utility and provides operating instructions for it. It is written for Data Management System (DMSII) users who want to create a Semantic Information Manager (SIM) description and a Structured Query Language Database (SQLDB) description for a DMSII database.

A Series InfoExec Documents Index

Form number: 8600 0791

This document is a comprehensive index composed of entries that reflect the InfoExec documents and portions of other documents relevant to InfoExec. The index is intended to help anyone using an InfoExec product.

A Series InfoExec Interactive Query Facility (IQF) Operations Guide

Form number: 8600 0767

This guide provides an overview of IQF and information about its inquiring, updating, and report painting capabilities. This guide is written primarily for end users with little programming knowledge and also for programmers and database administrators.

A Series InfoExec LINC.View Operations Guide

Form number: 8600 0858

This guide provides operating instructions for the InfoExec LINC.View utility. It is written for Logic and Information Network Compiler II (LINC II) users who want to create a Semantic Information Manager (SIM) layer or a Structured Query Language Database (SQLDB) layer for a LINC II database.

A Series InfoExec Semantic Information Manager (SIM) Object Definition Language (ODL) Programming Guide

Form number: 8600 0189

This guide presents information on using ODL to define a SIM database. Each kind of ODL declaration that can be included in a schema is described. Use of the SIM Utility to create and maintain a SIM database is also described. This guide is written primarily for applications and systems developers responsible for defining and administering SIM databases.

A Series InfoExec Semantic Information Manager (SIM) Object Manipulation Language (OML) Programming Guide

Form number: 8600 0163

This guide describes how to interrogate and update SIM databases using SIM OML. Also described are two methods for processing queries: one method embeds calls on the SIM library in an application program and the other method uses the InfoExec Interactive Query Facility (IQF). This guide is written for application programmers and experienced IQF and Workstation Query Facility (WQF) users.

A Series InfoExec Semantic Information Manager (SIM) Programming Guide

Form number: 1195104

This guide describes InfoExec programming concepts and the capabilities of the host language interface (HLI) to support application programs written in COBOL74, Pascal, and ALGOL. This guide is written for programmers who know at least one of the host languages thoroughly and who are familiar with SIM.

A Series InfoExec Semantic Information Manager (SIM) Technical Overview

Form number: 8600 1674

This overview describes the SIM concepts on which the InfoExec data management system is based. This overview is written for end users, applications programmers, database designers, and database administrators.

A Series InfoExec Structured Query Language Database (SQLDB) Programming Guide

Form number: 8600 0049

This guide details the Unisys A Series implementation of Structured Query Language (SQL). The guide presents information on using SQLDB to define a relational database as well as using SQLDB to manipulate the data in a relational database that has been defined through SQLDB. This guide is written for applications programmers, database designers, and database administrators who are interested in using SQL for managing relational databases.

A Series Integrated Communications Processor (ICP) BNA Version 2 Implementation Guide

Form number: 1225370

This guide provides the information for installing and configuring a basic BNA Version 2 network that contains an A Series (including Micro A) with an ICP (including Micro A ICP1).

A Series Integrated Communications Processor (ICP1) Memory Dump Analyzer Operations Reference Manual

Form number: 1182383

This manual is designed to help identify problems in the A Series ICP1. This manual is intended for operations and support personnel.

A Series Intelligent Distributed Editor (IDE) Operations Guide

Form number: 1210960

This guide explains how to operate IDE, a distributed editing environment that enables you to create, modify, compile and debug programs in one session.

A Series Interactive Datacomm Configurator (IDC) Operations Guide

Form number: 1169810

This guide explains how to use IDC, a menu-driven utility used to define and modify data communications networks. It provides information on configuring a data communications network using the IDC menu system and basic constructs, and provides reference information about the commands and attributes. This guide is written for individuals who have a basic knowledge of data communications concepts, but who might not know the physical characteristics of hardware devices in the network.

A Series Interactive Menugraph Generator (IMG) Operations Guide

Form number: 8600 0411

This guide explains how to use and run IMG, a software tool for the design and modification of Menu-Assisted Resource Control (MARC), Interactive Datacomm Configurator (IDC), BNA Version 1, and IMG screens and forms. This guide is written for users who want to customize these screens for their system.

A Series KEYEDIOII Programming Reference Manual

Form number: 8600 0684

This manual describes the KEYEDIOII software. KEYEDIOII is the Unisys indexed sequential access method (ISAM) software for COBOL74 and Report Program Generator (RPG) programming languages. This manual is designed for applications programmers and analysts, and others who are familiar with KEYEDIO.

A Series LINC II Installation & Configuration Guide

Form number: 3943 4469

This guide describes the procedures for installing and configuring LINC II software on A Series computer systems.

A Series Mail System Installation and Administration Guide

Form number: 8600 1559

This guide describes how to install and administer the Mail System on an A Series system. It explains the normal operations of the Mail Administrator, including how to troubleshoot and maintain the Mail System. This guide is written for the data processing manager, system administrator, or programmer-analyst who is assigned the task of overseeing the Mail System.

A Series Mail System Operations Guide

Form number: 8600 0247

This guide explains how to use the A Series Mail System. It provides task-oriented information and alphabetical reference sections for the Mail System commands and user options. This guide is written for the Mail System end user.

A Series Mark 3.9 Software Release Capabilities Overview

Form number: 8600 0015

This overview summarizes the new features available with the Mark 3.9 software release, describes any features deimplemented in that release, and lists the manuals that have been added and changed. The overview is written for system administrators, programmers, and others who will be preparing for and using the new software release.

A Series Memory Subsystem Administration and Operations Guide

Form number: 1169836

This guide presents an overview of memory architecture and memory management concepts. It explains how the memory subsystem functions and how to use and configure the memory subsystem. This guide is written for system administrators and operators.

A Series Menu-Assisted Resource Control (MARC) Operations Guide

Form number: 8600 0403

This guide provides an overview of MARC, a description of the menu structure, and information on how to use help text, commands, security features, and Communications Management System (COMS) windows from MARC. The guide also explains how to run programs from MARC, how to customize MARC to meet user needs, and how to use MARC in a multinational environment. This guide is written for a wide audience, ranging from experienced system administrators to end users with no previous knowledge of MARC or A Series systems.

A Series Message Translation Utility (MSGTRANS) Operations Guide

Form number: 8600 0106

This guide describes how to use the Message Translation Utility (MSGTRANS) to translate compiled program messages from any natural language to any other natural language. It provides complete instructions for running and using the screen and batch interfaces of MSGTRANS. This guide is written for programmers and translators who create and translate program messages in a MultiLingual System (MLS) environment.

A Series Micro A A Series Memory Expansion Installation Instructions

Form number: 8600 1088

These instructions describe how to install A Series memory in 6 megabyte increments to a maximum of 24 megabytes. The instructions are for use in conjunction with one of these guides: *A Series Micro A 800 OS/2 System Installation Guide, A Series Micro A 825 OS/2 System Installation Guide*, or *A Series Micro A 825 UNIX System Installation Guide* .

A Series Micro A Data Communications Adapter 1 Board Installation Instructions

Form number: 8600 1096

These instructions describe how to install the board that provides A Series communications for up to four lines via four externally accessible RS-232 connectors. These instructions are for use in conjunction with the *A Series Micro A 800 OS/2 System Installation Guide.*

A Series Micro A Data Communications Host Adapter 2 Board Installation Instructions

Form number: 8600 1351

These instructions describe how to install the board that provides A Series data communications for up to four lines via four externally accessible RS-232 connectors. These instructions are for use in conjunction with one of these guides: *A Series Micro A 825 OS/2 System Installation Guide* or *A Series Micro A 825 UNIX System Installation Guide.*

A Series Micro A Ergonomic Video Display (EVD) Installation Instructions

Form number: 8600 1104

These instructions describe how to install the ergonomically-designed monitor. They are for use in conjunction with the *A Series Micro A 800 OS/2 System Installation Guide.*

A Series Micro A Full-Height Universal Disk Drive Expansion Cabinet Installation Instructions

Form number: 8600 1716

These instructions describe how to install additional disk storage in the full-height universal disk drive expansion cabinet for the Micro A system. These instructions are written for Micro A users.

A Series Micro A MA150T Tape Drive Installation Instructions

Form number: 8600 1138

These instructions describe how to install a cartridge tape device for use in the A Series environment.

A Series Micro A MA280HD Disk Drive Installation Instructions

Form number: 8600 1377

These instructions describe how to install disk storage for the A Series environment in the half-height expansion cabinet. They are for use in conjunction with the *A Series Micro A 800 OS/2 System Installation Guide.*

A Series Micro A MA560D Disk Drive Installation Instructions

Form number: 8600 1369

These instructions describe how to install additional disk storage in the full-height disk expansion cabinet. These instructions are for use with one of these guides: *A Series Micro A 800 OS/2 System Installation Guide* or *A Series Micro A 825 OS/2 System Installation Guide.*

A Series Micro A MAICP1 Board Installation Instructions

Form number: 8600 1112

These instructions describe how to install the board for connecting A Series network architecture using BNA Version 2. They are for use in conjunction with these guides: *A Series Micro A 800 OS/2 System Installation Guide, A Series Micro A 825 OS/2 System Installation Guide*, or *A Series Micro A 825 UNIX System Installation Guide* .

A Series Micro A Mouse Input Device Installation Instructions

Form number: 8600 1120

These instructions describe how to attach the mouse input device. The instructions are for use in conjunction with these guides: *A Series Micro A 800 OS/2 System Installation Guide, A Series Micro A 825 OS/2 System Installation Guide*, or *A Series Micro A 825 UNIX System Installation Guide.*

A Series Micro A OS/2 Version 1.1 Upgrade Kit Installation Instructions

Form number: 8600 1070

These installation instructions describe how to upgrade a Micro A 800 from OS/2 Version 1.0 to Version 1.1. They are for use in conjunction with the *A Series Micro A 800 OS/2 System Installation Guide*

A Series Micro A SCSI Converter Cabinet Installation Instructions

Form number: 8600 1385

These instructions describe how to install the converter cabinet to convert differential signals to or from single-ended signals. They are for use in conjunction with these guides: *A Series Micro A 825 OS/2 System Installation Guide* or *A Series Micro A 825 UNIX System Installation Guide.*

A Series Micro A SCSI Host Adapter Board Installation Instructions

Form number: 8600 1062

These instructions describe how to install the adapter board so that up to 7 additional SCSI disk and tape devices can be connected to the system. They are for use in conjunction with these guides: *A Series Micro A 800 OS/2 System Installation Guide, A Series Micro A 825 OS/2 System Installation Guide*, or *A Series Micro A 825 UNIX System Installation Guide* .

A Series Micro A System Installation Guide

Form number: 5044100

This guide describes Micro A hardware and software installation. It also provides information on hardware components, basic operation considerations, and troubleshooting. This guide is written for Micro A users.

A Series Micro A Workstation Processor Adapter 1 Board Installation Instructions

Form number: 8600 1708

These instructions describe how to install the workstation processor adapter 1 board into the Micro A system. It also describes how to connect the twinax cable to a twinax terminal and how to update Micro A system parameters. These instructions are written for Micro A users.

A Series Micro A 280D Disk Drive Installation Instructions

Form number: 8600 1146

These instructions describe how to install additional disk storage in the full-height disk expansion cabinet. The instructions are for use in conjunction with the *A Series Micro A 800 OS/2 System Installation Guide*.

A Series Micro A 800 OS/2™ System Installation Guide

Form number: 8600 1054

This guide describes Micro A 800 OS/2 hardware and software installation. It also provides information on hardware components, basic operation considerations, and troubleshooting. This guide is written for Micro A users.

A Series Micro A 825 OS/2™ System Installation Guide

Form number: 8600 0700

This guide describes Micro A 825 OS/2 hardware and software installation. It also provides information on hardware components, basic operation considerations, and troubleshooting. This guide is written for Micro A users.

A Series Micro A 825 UNIX System Installation Guide

Form number: 8600 0718

This guide describes Micro A 825 UNIX hardware and software installation. It also provides information on hardware components, basic operation considerations, and troubleshooting. This guide is written for Micro A users.

A Series Model S System Software Installation Guide

Form number: 5044423

This guide describes the initial installation of system software on a Model S system. It includes procedures for recovering from unusual conditions during system initialization. This guide is written for personnel responsible for the initial installation of software on a Model S system.

A Series MultiLingual System (MLS) Administration, Operations, and Programming Guide

Form number: 8600 0288

This guide describes how to use the MLS environment, which encompasses many Unisys products. The MLS environment includes a collection of operating system features, productivity tools, utilities, and compiler extensions. The guide explains how these products are used to create application systems tailored to meet the needs of users in a multilingual or multicultural business environment. It explains, for example, the procedures for translating system and application output messages, help text, and user interface screens from one natural language to one or more other languages; for instance, from English to French and Spanish. This guide is written for international vendors, branch systems personnel, system managers, programmers, and customers who wish to create customized application systems.

A Series Network Administrative Utility (NAU) Operations Guide

Form number: 1222706

This guide describes in detail how to use the NAU screens to define and maintain descriptions of a BNA network, check network consistency, initiate the generation of network initialization files for large system hosts and network initialization files and code files for CP 2000s and CPDLPs, and print network configuration reports.

This document has been updated to include NAU information for A Series OSI.

A Series Network Control Facility (NCF) Implementation Guide

Form number: 1222671

This guide provides step-by-step instructions on how to install the Network Control Facility (NCF) software, configure PCs and terminals to run NCF, implement the NCF control structure through the NAU, and configure the graphic displays.

A Series Network Control Facility (NCF) Operations Guide

Form number: 1222672

This guide provides step-by-step instructions on operating NCF after it is installed and configured. Information such as setting NCF options, monitoring network status and utilization, modifying graphic displays, and managing fault dockets is also included.

A Series Network Definition Language II (NDLII) Programming Reference Manual

Form number: 1169604

This manual documents the high-level programming and definition language used to describe a data communications network. It gives a brief overview and functional description of the data comm system and provides a complete description of the syntax and semantics of all language components and compiler options of NDLII. This manual is written for experienced data communications programmers.

A Series NEWP Programming Reference Manual

Form number: 5044233

This manual describes the use of the NEWP programming language for developing system programs. It is written for system software programmers who are familiar with ALGOL and A Series architecture.

A Series On-Line Data Entry System (ODESY) Installation Reference Manual

Form number: 5023682

This manual describes how to use ODESY to create and retrieve online information. It also presents information for application programmers who want their programs to interface with ODESY. This guide is written for both novice users and application programmers.

A Series Operating System Installation Guide

Form number: 8600 1021

This guide describes how to use the UTILOADER and LOADER programs to install the operating system when a system is first initialized or when the operating system is not functioning. Information about changing your operating system or using Simple Installation are covered in other manuals. This guide is written for system administrators and operators who are responsible for installing the operating system.

A Series OSI Implementation Guide

Form number: 3787 5374

This guide provides the information for installing and configuring OSI into a BNA Version 2 network. This guide also provides a brief description of the tasks you might need to perform while configuring a more complex network.

A Series Pascal Programming Reference Manual, Volume 1: Basic Implementation

Form number: 8600 0080

This manual describes the basic features of the Pascal language. This manual is written for programmers who are familiar with programming concepts.

A Series Pascal Programming Reference Manual, Volume 2: Product Interfaces

Form number: 8600 1294

This manual describes the Pascal interfaces and extensions for the following products: the Advanced Data Dictionary System (ADDS), the Communications Management System (COMS), the Screen Design Facility Plus (SDF Plus), and the Semantic Information Manager (SIM). This manual is written for application programmers who are familiar with Pascal programming language concepts and terms.

A Series PCMARC Installation and Operations Guide

Form number: 8600 0817

This guide describes how to install and operate PCMARC. PCMARC presents Menu-Assisted Resource Control (MARC) screens on a workstation connected to an A Series host that is running MARC. PCMARC includes windowing environment software, a terminal emulator for your workstation, and a communication interface for handling PCMARC communication with the host. This guide is written for A Series system operators.

A Series Physical I/O Technical Overview

Form number: 1169943

This overview describes the physical I/O function on A Series Entry and Medium systems that use universal I/O (UIO). This overview is written for personnel who want general information on the major components involved in the physical I/O process.

A Series PL/I Reference Manual

Form number: 1169620

This manual describes the PL/I programming language. This manual is written for programmers who are familiar with programming concepts.

A Series Print System (PrintS/ReprintS) Administration, Operations, and Programming Guide

Form number: 8600 1039

This guide describes the features of the Print System and provides a complete description of its command syntax. This guide is written for programmers, operators, system administrators, and other interactive users of Menu-Assisted Resource Control (MARC) and Command and Edit (CANDE).

A Series Printing Utilities Operations Guide

Form number: 8600 0692

This guide describes how to use the Print System utilities: Backup Processor, SYSTEM/BACKUP, and LTTABLEGEN. This guide is written for programmers, system administrators, and interactive users of Menu-Assisted Resource Control (MARC) and CANDE who are familiar with the concepts and use of the Print System.

A Series Railroad Diagram Reference Card

Form number: 5044266

This card provides a quick reference to the rules of railroad syntax diagrams.

A Series Remote Job Entry (RJE) Operations Reference Manual

Form number: 1169828

This manual describes the capabilities of the RJE message control system (MCS). This manual is written for users of the RJE system and for system programmers responsible for tailoring and maintaining the RJE system for particular types of installations.

A Series Remote Job Entry/Binary Synchronous (RJE/BSC) Configuration and Operations Guide

Form number: 8600 0866

This guide describes the RJE/BSC software product. RJE/BSC enables the A Series user to transmit queries, program source files, and data files to an IBM host system for processing and, upon completion, to receive the final output to be printed or stored on disk. The guide is intended for end users and system administrators.

A Series Report Program Generator (RPG) Programming Reference Manual, Volume 1: Basic Implementation

Form number: 8600 0544

This manual describes the basic features of the RPG programming language, including both RPG I and RPG II dialects. This manual is written for application programmers who are familiar with programming concepts.

A Series Report Program Generator (RPG) Programming Reference Manual, Volume 2: Product Interfaces

Form number: 8600 0742

This manual describes extensions to the RPG language designed to allow application programs to interface with the Data Management System II (DMSII) or the Communications Management System (COMS). This manual is written for applications programmers who are familiar with RPG programming language concepts and terms.

A Series Report Program Generator (RPG) Programming Template

Form number: 1195302

This programming template is designed to help the programmer align RPG programming code in the proper fields and columns and for debugging purposes.

A Series Screen Design Facility (SDF) Capabilities Manual

Form number: 1180437

This manual describes the capabilities and benefits of SDF. This manual is written for executive and data processing management.

A Series Screen Design Facility (SDF) Operations and Programming Guide

Form number: 1185295

This guide explains how to install SDF. It gives detailed instructions on interactively defining fields, forms, and formlibraries, painting form images, and generating formlibraries. It also provides suggestions and examples for writing applications that use SDF features effectively. This guide is written for application programmers.

A Series Screen Design Facility Plus (SDF Plus) Capabilities Manual

Form number: 8600 0270

This manual describes the capabilities and benefits of SDF Plus. It gives a general introduction to the product and explains the differences between SDF and SDF Plus. This manual is written for executive and data processing management.

A Series Screen Design Facility Plus (SDF Plus) Installation and Operations Guide

Form number: 8600 0262

This guide explains how to use SDF Plus to create and maintain a user interface. It gives specific instructions for installing SDF Plus, using the SDF Plus forms, and installing and running a user interface created with SDF Plus.

A Series Screen Design Facility Plus (SDF Plus) Technical Overview

Form number: 8600 0072

This overview provides the conceptual information needed to use SDF Plus effectively to create user interfaces.

A Series Security Administration Guide

Form number: 8600 0973

This guide describes system-level security features and suggests how to use them. It provides administrators with the information necessary to set and implement effective security policy. This guide is written for system administrators, security administrators, and those responsible for establishing and implementing security policy.

A Series Security Features Operations and Programming Guide

Form number: 8600 0528

This guide describes the security features available to users and provides instructions for their use. This guide is written for users who are responsible for maintaining the security of their individual programs and data.

A Series SNA LU6.2 Service Manager Implementation and Operations Guide

Form number: 3787 5457

This guide provides the instructions and detailed information required to install, implement, and operate the A Series SNA LU6.2 (Logical Unit Type 6.2 protocol) Service Manager software facility. This guide provides procedures required for routine support of the LU6.2 Service Manager operations, as well as procedures required for

technical support for Unisys A Series transaction programs (TPs) that use the LU6.2 Service Manager as the primary communications interface for SNA networks. This guide also provides information on planning and managing a large BNA communications network in which the LU6.2 Service Manager is installed.

This guide is for operations personnel who are responsible for routine support of LU6.2 Service Manager operations. It is also intended for network designers and system administrators who plan and maintain large BNA communications networks that use LU6.2 Service Manager.

A Series SNA LU6.2 Service Manager Programming Guide

Form number: 3787 5465

This guide presents the information needed to design, code, and test a transaction program (TP) using the SNA LU6.2 protocol. This guide deals specifically with the communication functions required to conduct conversations and perform transaction processing activities in an SNA LU6.2 environment.

A Series SNA LU6.2 Service Manager Programming Reference Manual

Form number: 3787 5473

This manual provides reference information needed to design, code, and test a transaction program (TP) using the SNA LU6.2 protocol. This manual provides detailed information on verbs implemented in the LU6.2 Service Manager, the parameters used with the LU6.2 Service Manager verbs, and return codes.

A Series SNA RJE Implementation and Operations Guide

Form number: 1221406

This guide describes the interface between the Unisys A Series SNA RJE workstation facility and an SNA host processor. This guide contains the instructions and detailed information required to install, configure, and operate an A Series SNA RJE workstation facility in an A Series BNA Version 2 CP 2000 or CPDLP network.

A Series SNA 3270 Terminal Emulator Implementation and Administration Guide

Form number: 1221404

This guide provides information needed to implement and administer the SNA 3270 terminal emulator that enables Unisys terminals to emulate an IBM 3270 series terminal when connected to an IBM mainframe. The manual covers the two ways in which an A Series system can be linked to an SNA network: through a DCDLP, or through a CP 2000 or CPDLP.

A Series SNA 3270 Terminal Emulator Operations and Programming Guide

Form number: 1221405

This guide provides information needed to operate the SNA 3270 terminal emulator that is being used to emulate an IBM 3270 series terminal when connected to an IBM mainframe. It also provides information needed by programmers writing programs for systems that use the terminal emulator linked to an SNA network either through a DCDLP, or through a CP 2000 or CPDLP.

A Series Software Documents Master Index

Form number: 8600 1542

This manual provides a convenient directory of information contained in A Series software documentation. This manual is written for anyone who uses A Series software documentation.

A Series Software Release Installation Guide

Form number: 8600 0981

This guide explains how to use the Simple Installation (SI) program to install a new software release on an established A Series system. This guide also contains specific installation instructions for the current Mark release. This guide is written for system administrators, operators, and others responsible for the installation of a new software release.

A Series SORT Language Programming Reference Manual

Form number: 1169794

This manual describes the A Series SORT language. This manual is written for both experienced application programmers and novice programmers.

A Series System Administration Guide

Form number: 8600 0437

This guide provides the reader with information required to make decisions about system configuration, peripheral configuration, file management, resource use, and other matters related to system administration. This guide is written for users with some, little, or no A Series experience who are responsible for making decisions about system administration.

A Series System Architecture Reference Manual, Volume 2

Form number: 5014954

This manual describes and defines the architecture used in A Series data processing system products. It describes operating system concepts and requirements. It is written for personnel developing programs to run on A Series systems.

A Series System Assistant Programming and Operations Guide

Form number: 8600 0825

This guide describes the capabilities and uses of the System Assistant, a software package that enables system administrators to effectively monitor system activities and system state, and automate the response to system events. This guide is written for system operators and experienced system administrators with some programming experience.

A Series System Commands Operations Reference Manual

Form number: 8600 0395

This manual gives a complete description of the system commands used to control system resources and work flow. This manual is written for systems operators and administrators.

A Series System Configuration Guide

Form number: 8600 0445

This guide describes how to organize a complex computer system into different hardware configurations. It also describes the steps required to dynamically change the system

from one configuration to another. This guide is written for experienced system administrators and system operators.

A Series System Management Facility II (SMFII) Query Operations Guide

Form number: 7831 1867

This guide explains how to inquire about information stored in a SMFII database. This guide is written for system administrators and operators.

A Series System Management Facility II (SMFII) Resource Management Operations Reference Manual

Form number: 7831 1628

This manual provides information about SMFII, which can collect data about system performance through real-time sampling and through analysis of the system SUMLOG files. This manual is written for system operators responsible for collecting the data, and system administrators who analyze the data.

A Series System Messages Support Reference Manual

Form number: 8600 0429

This manual presents operating system messages and explains the most likely cause of each message and the most effective response. This manual is written for operators and programmers responsible for the operation of A Series systems, and for the resolution of error conditions on those systems.

A Series System Operations Guide

Form number: 8600 0387

This guide describes the basic concepts and procedures required to operate Micro A through A 6 systems and, more generally, all A Series systems. This guide is written for A Series operators, especially those with little or no experience.

A Series System Software Installation Guide, Volume 1: A 9

Form number: 1169695

This guide describes the initial installation steps and the SOFTCON commands used during initialization. It also provides information on troubleshooting, hardware components, and compatibility with other systems. This guide is written for personnel installing the system software on the A 9 system.

A Series System Software Installation Guide, Volume 1: A 10

Form number: 1169935

This guide describes the initial installation steps necessary to bring the system to an MCP idle condition. It also provides information on SOFTCON commands, troubleshooting, and the hardware components of the system. This guide is written for personnel installing the system software on the A 10 system.

A Series System Software Installation Guide, Volume 2: System Initialization

Form number: 1170263

This guide provides the step-by-step system initialization procedures for most A Series Entry and Medium Systems. This guide is written for installation managers, support analysts, and operators.

A Series System Software Support Reference Manual

Form number: 8600 0478

This manual describes facilities used for system monitoring and debugging: BARS, DCAUDITOR, DCSTATUS, DUMPANALYZER, HARDCOPY/PRINTCOPY, HDU System Balancing, LOGANALYZER, LOGGER, Peripheral Test Driver (PTD), REPORT_LOG_ENTRIES, STATUS_CHANGE_REQUEST, SUMLOG, and System Stability Reporting. This manual is written for system support personnel and operators.

A Series System Software Utilities Operations Reference Manual

Form number: 8600 0460

This manual provides information on the system utilities CARDLINE, COMPARE, DUMPALL, FILECOPY, FILEDATA, INTERACTIVEXREF, PATCH, and XREFANALYZER. It also provides information on Indexed Sequential Access Method (ISAM), KEYEDIO, libraries, mathematical functions, the RLTABLEGEN program, and the SORT facility. This manual is written for applications programmers and operators.

A Series Systems Functional Overview

Form number: 8600 0353

This manual presents an overview of the A Series systems and serves as a central source of information for these systems. This overview is written for both new and experienced users of A Series systems, and for anyone wanting an introduction to these systems.

A Series SYSTEMSTATUS Programming Reference Manual

Form number: 8600 0452

This manual documents the SYSTEMSTATUS intrinsic of the master control program (MCP). The SYSTEMSTATUS intrinsic provides information that can be used to efficiently monitor the performance of a running system. This manual is written for systems programmers.

A Series Task Attributes Programming Reference Manual

Form number: 8600 0502

This manual describes all the task attributes available on A Series systems. It also gives examples of statements for reading and assigning task attributes in various programming languages. The *A Series Task Management Programming Guide* is a companion manual.

A Series Task Management Programming Guide

Form number: 8600 0494

This guide explains how to initiate, monitor, and control processes on an A Series system. It describes process structures and process family relationships, introduces the uses of many task attributes, and gives an overview of interprocess communication techniques. The *A Series Task Attributes Programming Reference Manual* is a companion manual.

A Series TCP/IP Implementation Guide

Form number: 1225377

This guide presents the information needed to implement TCP/IP software in a basic A Series BNA Version 2 network. This guide also describes related features and dependencies, such as Host Services features supported by TCP/IP and interfaces to the Ethernet local Area network (LAN), and X.25 wide area network (WAN) provided by the CP 2000 communications processor.

A Series Work Flow Language (WFL) Programming Reference Manual

Form number: 8600 1047

This manual presents the complete syntax and semantics of WFL. WFL is used to construct jobs that compile or run programs written in other languages and that perform library maintenance such as copying files. This manual is written for individuals who have some experience with programming in a block-structured language such as ALGOL and who know how to create and edit files using CANDE or the Editor.

A Series X.25 MCS Operations and Programming Reference Manual

Form number: 8600 0577

This reference manual describes how to use the X.25 message control system (MCS) to interface with packet-switched data networks (PSDNs) that use the X.25 protocol recommended by the Consultative Committee on International Telegraphy and Telephony (CCITT). This manual describes the operations necessary for network data transfer and the functions available for application programming. The manual is written for system administrators, system programmers, and application programmers.

A Series/V Series LINC II Administration & Operations Guide

Form number: 3943 4451

This guide explains how to generate and operate LINC II systems and reports, and provides information for general administration of LINC II system operations.

A Series/V Series LINC II Customizer Programming Guide

Form number: 3943 4378

This guide describes how to customize LINC system specifications supplied from another host.

A Series/V Series LINC II Development Operations Guide

Form number: 3943 4444

This guide describes the LINC Development Environment that is used to create and maintain user information systems.

A Series/V Series LINC II Network Implementation Guide

Form number: 1220320

This guide describes how to define and generate a LINC Network.

A Series/V Series LINC II Programming Reference Handbook

Form number: 3943 4360

This handbook summarizes the syntax for commands used in the LINC development environment and the commands of the LINC Definition Language. It also lists LINC system data items and data attributes.

A Series/V Series LINC II Programming Reference Manual

Form number: 3943 4485

This manual provides reference material for the definition of a LINC Specification.

A Series/V Series LINC II Workstation Operations Guide

Form number: 3943 4436

This guide explains how to install and operate workstations in a LINC II environment.

A Series/V Series System Software Documentation CD-ROM Library Operations Guide

Form number: 4127 0117

This guide describes how to search A Series or V Series documentation found on CD-ROM. This guide is written for anyone that wants to access information about how to use A Series or V Series systems from CD-ROM.

B 1000 Series On-line Data Entry System (ODESY) Terminal Operator's Manual

Form number: 1131851

This manual describes ODESY, an online data entry and verification system, and gives instruction on how to use it.

B 1000 Series to A Series Progression Guide

Form number: 8600 0619

This guide discusses the differences between B 1000 and A Series systems, describes common progression problems, provides solutions to progression problems, and gives general information for handling the overall progression process. This guide is written for system administrators or system programmers who have a thorough understanding of B 1000 systems, and who are familiar with data processing concepts and terminology.

B 5000/B 6000/B 7000 Series CANDE Reference Card

Form number: 5014533

This card provides a brief description of the syntax of the CANDE commands. This card is written as a quick reference for individuals who use CANDE commands in their daily work routine.

B 5000/B 6000/B 7000 Series GEMCOS Reference Card

Form number: 1154499

This card provides a brief description of the syntax of the GEMCOS commands. This card is a quick reference for individuals who create and maintain GEMCOS programs.

BNA Version 2 Library Overview Reference Card

Form number: 3787 5416

This reference card provides an overview of the major tasks described in each of the documents in the BNA Version 2 customer documentation library and the order in which the documents should be read.

BNA Version 2 Master Index Reference Handbook

Form number: 3787 5390

This handbook provides a global index to the customer documentation for BNA Version 2 products, including CP 2000, CPDLP, NAU, NCF, OSI, TCP/IP, and SNA products.

This document has been revised to include A Series OSI index entries and associated documentation.

BNA Version 2 Memory Dump Analyzer Status Codes Support Reference Manual

Form number: 1222729

This manual describes in reference format the halt codes, event codes, map and space analysis tags, originator IDs, and process codes that can appear in CP 2000, ICP, and CPDLP dump analysis listings.

BNA Version 2 Network Attributes Data Dictionary

Form number: 3787 5382

This dictionary provides in reference format BNA Version 2 network attributes. The term attributes in this dictionary denotes data communications characteristics defined for the network and each component in the network. This manual defines basic BNA attributes as well as CP 2000/CPDLP SNA PUT2, CP 2000 SNA PUT5, NCF, OSI, and TCP/IP attributes.

This document has been revised to include definitions for A Series OSI attributes.

BNA Version 2 Network Capabilities Overview

Form number: 3787 5440

This overview describes the capabilities, features, and benefits of each of the Unisys hardware and software products in a BNA Version 2 network. This document includes A Series Opens System Interconnection (OSI) information.

BNA Version 2 Network Encoded Messages Programming Reference Manual, Volumes 1 and 2

Form number: 3787 7529

This manual provides in reference format the encoded formats of BNA Operations Interface Messages (OIMs). These encoded messages can be used by user program agents. This manual describes the encoded formats of basic BNA OIMs as well as CP 2000/CPDLP SNA PUT2, CP 2000 SNA PUT5, NCF, OSI, and TCP/IP OIMs.

BNA Version 2 Operations Reference Manual, Volume 3: Reports, Log Messages, and Error Messages

Form number: 3787 7552

This manual presents in reference format BNA Operations Interface (OI) reports, log messages, and error messages. This volume provides syntactic descriptions of each report and log message and provides, where appropriate, a description for such messages. This manual also describes syntax elements and lists valid values for each. This manual describes the English text formats of basic BNA reports, log messages, and error messages as well as NCF, OSI, and TCP/IP reports, log messages, and error messages. Attribute definitions are provided in the *BNA Version 2 Network Attributes Data Dictionary*.

CP 2000/CPDLP SNA PUT2 and CP 2000 SNA PUT5 reports, log messages, and error messages are described in the *CP 2000/CPDLP SNA PUT2 Operations Reference Manual* and in the *CP 2000 SNA PUT5 Operations Reference Manual*, respectively.

This manual has been revised to include A Series OSI reports, log messages, and error messages.

BNA Version 2 Operations Reference Manual, Volumes 1 and 2: Commands and Inquiries

Form number: 3787 7511

This manual describes in reference format BNA Operations interface (OI) commands. This manual provides semantic and syntactic descriptions of each OI command and associated responses. This manual also describes syntax elements and lists valid values for each. This manual describes the English text formats of basic BNA commands as well as NCF, OSI, and TCP/IP commands. Attribute definitions are provided in the *BNA Version 2 Network Attributes Data Dictionary*.

CP 2000/CPDLP SNA PUT2 and CP 2000 SNA PUT5 commands are described in the *CP 2000/CPDLP SNA PUT2 Operations Reference Manual* and the *CP 2000 SNA PUT5 Operations Reference Manual* respectively.

This document has been revised to include A Series OSI commands and inquiries.

BTOS Business Graphics Package (BGP) Operation and Programming Guide

Form number: 1188133

This manual describes how to create numerous charts and graphs for business communications.

BTOS Data Transfer System (BTOS DTS) Operations and Programming Guide

Form number: 1195229

This guide explains how to use the various features of DTS in the BTOS environment. It contains step-by-step instructions for creating, modifying, and deleting transfer definitions. It also gives the procedures for running, terminating, pausing, and restarting transfers.

This guide is intended for operators who run transfers and programmers who install and maintain the system.

BTOS Multiplan Operations Guide

Form number: 5022197

This manual explains all features, commands, and functions in the Multiplan software, including all screen elements and the use of keyboards.

BTOS Online Approach Static Information System (OASIS) Operations Guide

Form number: 1185287

This guide describes how to use OASIS to create and retrieve online information in a workstation environment. It also presents information for application programmers who want their programs to interface with OASIS. This guide is written for both novice users and application programmers.

Burroughs Network Architecture (BNA) Architectural Description Operating and Programming Reference Manual, Volume 1

Form number: 1132172

This manual presents an architectural description of BNA. It is intended to be used in conjunction with the *BNA Version 2 Operations Reference Manual, Volume 1: Commands and Inquiries*, the *BNA Version 2 Operations Reference Manual, Volume 2: Reports, Log Messages, and Error Messages*, and with the BNA implementation documentation for the specific A Series system with which you are involved. This manual is intended for system operators, application programmers, network planners, operations supervisors, and network system programmers.

B20 Systems Executive WRITEone Word Processing Reference Manual

Form number: 1162997

This manual describes how to manage documents, enter and edit text, format pages, and print files.

Capacity Management Facility Snapshot (CMF.Snapshot) End Use Guide

Form number: 7830 7378

This guide describes the Capacity Management Facility (CMF.Snapshot) used to perform capacity management tasks on OS 1100 and A Series hosts. You can use a personal computer to display or print the data as a table or graph. The guide is written for capacity planners, performance analysts, and technical managers.

Communications Processor Local Area Network (CPLAN) Planning Guide

Form number: 1225371

This guide provides hardware planning information for implementing a CPLAN. This guide presents information for interconnecting BNA Version 2 nodes in a local area network. This guide describes configuration restrictions, hardware and software requirements, and guidelines for preparing a CPLAN installation.

CP 2000 SNA PUT2/PUT5 and CPDLP PUT2 User Program Interface (UPI) Programming Guide

Form number: 1203585

This guide describes how to use PUT2/PUT5 UPI to communicate with other application programs in an SNA network.

CP 2000 SNA PUT5 Operations Reference Manual

Form number: 1225442

This manual describes in reference format the English text formats of the CP 2000 SNA PUT5 commands, reports, log messages, and error messages for the SNA PUT5 Operations Interface (OI). The OI is a set of messages that control and monitor SNA PUT5 software. Both semantic and syntactic descriptions are provided for each OIM. Attribute definitions are provided in the *BNA Version 2 Network Attributes Data Dictionary*. Encoded formats are provided for each OIM in the *BNA Version 2 Network Encoded Messages Programming Reference Manual, Volumes 1 and 2.*

CP 2000/CPDLP Custom Protocol Programming Guide

Form number: 1222730

This guide provides information and procedures necessary for writing custom protocols for use in the CP 2000 communications processor and the Communications Processor Data Link Processor (CPDLP). Custom protocols enable you to attach devices to the CP 2000 or CPDLP that cannot be attached effectively by standard protocols. In this way, the CP 2000 or CPDLP can provide data communications for nonstandard devices in a BNA Version 2 network.

CP 2000/CPDLP SNA PUT2 Operations Reference Manual

Form number: 1225445

This manual describes in reference format the English text formats of CP 2000/CPDLP SNA PUT2 commands, reports, log messages, and error messages for the SNA PUT2 Operations Interface (OI). The OI is a set of messages that control and monitor SNA PUT2 software. Both semantic and syntactic descriptions are provided for each OIM. Attribute definitions are provided in the *BNA Version 2 Network Attributes Data Dictionary*. Encoded formats are provided for each OIM in the *BNA Version 2 Network Encoded Messages Programming Reference Manual.*

DOS Data Transfer System (DOS DTS) Operations and Programming Guide

Form number: 1185345

This guide explains how to use the various features of DTS in the DOS environment. It contains step-by-step instructions for creating, modifying, and deleting transfer definitions. It also gives the procedures for running, terminating, pausing, and restarting transfers.

This guide is intended for operators who run transfers and programmers who install and maintain the system.

LINC II Executive Overview

Form number: 4124 1233

This document gives an overview of LINC II for executives.

LINC II Run Time Transfer Operations Guide

Form number: 3943 4428

This document describes the procedures for transferring LINC II information systems to and from other hosts.

LINC II Technical Overview

Form number: 4124 1241

This document gives a technical overview of LINC II.

Personal Workstation² Data Transfer System (DTS) Installation and Configuration Guide

Form number: 8600 0890

This guide explains how to install and configure DTS on a workstation running under the MS-DOS®, OS/2, or BTOS II operating system. It is written for system administrators, analysts, or programmers who are responsible for installing, configuring, and managing disk or printer resources.

Personal Workstation² Data Transfer System (DTS) Operations Guide, Volume 1: Simple Transfers

Form number: 8600 0908

This guide explains how to write simple transfer definitions and how to use the virtual disk and virtual printer capabilities. It also explains how to run data transfers between Unisys A Series hosts and workstations running under the MS-DOS, OS/2, or BTOS II operating system. This guide is written for all users of DTS systems.

MS-DOS is a registered trademark of Microsoft Corporation.

Personal Workstation² Data Transfer System (DTS) Operations Guide, Volume 2: Advanced Operations

Form number: 8600 0916

This guide explains how to write complex data transfers that make use of data extraction and selection. This guide also provides technical information about virtual disks, virtual printers, and the DTS and BDRIVE application program interfaces, and compatible file types and data types. This guide is written for advanced users and programmers who are familiar with DTS.

Personal Workstation² Data Transfer System (DTS) System Messages Support Reference Manual

Form number: 8600 0924

This manual explains all DTS workstation and host messages except those that confirm successful operations and those that are explained sufficiently online. It describes the cause of each message and suggests an appropriate user response to each message. This manual is written for all users of DTS.

Personal Workstation² InfoExec Semantic Information Manager (SIM) Design Assistant (SDA) Operations Guide

Form number: 8600 0585

This guide describes the Semantic Information Manager (SIM) Design Assistant (SDA), which is used to design, browse, and maintain SIM databases. It contains information on operating SDA, including descriptions and explanations of views, forms, and menus. This guide is written for anyone who designs, updates, or views SIM database schemas.

REPORTER III Reference Card

Form number: 1177318

This reference card provides a quick reference to the statement syntax of the REPORTER III language and its reserved words.

REPORTER III Report Language Operations Guide

Form number: 1177185

This guide describes the report language of the Report Writer III (REPORTER III) system. It is written for all users of the Report language.

REPORTER III Vocabulary Language Operations Guide

Form number: 1177177

This guide describes the vocabulary language of the Report Writer III (REPORTER III) system. It is written for the first-time or occasional vocabulary language user, but is a useful reference for more experienced users.

Workstations Extended Graphics Terminal (EGT) Operations Guide

Form number: 1203692

This guide describes a terminal emulator that provides for extended X3.64 terminal control sequences as well as emulation of Tektronix 4014 graphics capabilities.

Workstations InfoExec Workstation Query Facility (WQF) Operations Guide

Form number: 1185279

This guide describes how to use WQF to query the structure or contents of an InfoExec database or to modify the data in the database. This guide is written for casual, infrequent users as well as expert users such as database analysts and administrators.

Workstations INFOVIEW II Operations Guide

Form number: 1210978

This guide describes the concepts and features of the INFOVIEW environment.

Workstations INFOVIEW II Programming Reference Manual

Form number: 1210895

This manual defines the concepts and procedures for developing an application for INFOVIEW II.

Glossary

A

access

(1) To perform an action on an object. Possible actions depend on the type of object; for example, interrogating or assigning a value to a variable, reading from or writing to a file, or invoking a procedure. (2) In Data Management System II (DMSII), a logical index structure that defines the physical ordering of records in direct, ordered, and random data sets. An access functions like a set, but no physical file is associated with an access. (3) In the Semantic Information Manager (SIM), a feature that allows a window to be defined to a set of data within a SIM database and to a set of data manipulation operations that are allowed on the data within that window. The combined use of accesses and permissions in a SIM database schema provides logical database security.

Action field

A field that appears on a form or screen and begins with the prompt *Action:*. The user enters the desired action for execution between the indicators to the right of this prompt.

action line

The location on a screen where the Action field appears.

action list

A list containing the names of the screen actions available on a given screen. The action list usually appears just below the action line.

adapter

A hardware unit that connects a data communications line to a line support processor (LSP). An LSP can have up to 16 adapters, numbered from 0 to 15. A data communications data link processor (DCDLP) has four adapters, numbered from 0 to 3.

ADM

See automatic display mode.

algorithm

(1) A sequence of instructions describing the steps needed to complete a particular task. (2) In Network Definition Language II (NDLII), the part of a program that contains the adapter control and line control processes for one type of line and specifies the line protocol for that type of line.

ANSI

American National Standards Institute. A nongovernmental, nonprofit organization that is the central body for coordinating voluntary standards in the United States. ANSI also serves as the United States member of the International Standards Organization (ISO).

ASCII

American Standard Code for Information Interchange. A standard 7-bit or 8-bit information code used to represent alphanumeric characters, control characters, and graphic characters on a computer system.

automatic display mode (ADM)

A display mode that can be initiated at an operator display terminal (ODT) through the use of the ADM (automatic display mode) system command. In this mode, various types of information about the system are displayed at regular intervals.

B

back up

To copy information to a disk or a tape to provide a means of restoring the information on the system as required.

backup file

(1) A printer or punch file assigned to a backup peripheral for subsequent output. The default backup peripheral is a disk. (2) A copy of a file that is stored offline so that it can be copied back onto the system if the original file becomes corrupted or inaccessible. (3) A copy of a file on a cataloging system that has been saved with one of the following Work Flow Language (WFL) statements: *COPY & BACKUP, ARCHIVE DIFFERENTIAL, ARCHIVE FULL, ARCHIVE INCREMENTAL,* or *ARCHIVE ROLLOUT.*

Basic Input/Output Subsystem (BIOS)

A set of services supplied with the IBM PC and compatible microcomputers that permits operation of hardware peripheral devices. The BIOS provides a common view of the hardware and acts as an intermediary between all software programs (including the operating system) and hardware devices, such as the keyboard, the display, the disk drives, and devices connected to any parallel ports.

batch file

(1) In the Interactive Datacomm Configurator (IDC), a file that contains commands in command language syntax. (2) In the Communications Management System (COMS), a file that contains commands to be executed by the COMS Utility program.

BCL

See Burroughs Common Language.

binding

(1) The process of combining one or more separately compiled subprogram object code files with a host object code file to produce a single object code file. This process is performed by the Binder program. (2) The process by which distinct occurrences of a name in a query are made to refer to the same instance of a reference variable during execution of the query.

BIOS

See Basic Input/Output Subsystem.

book
See help book.

Burroughs Common Language (BCL)
An obsolete code using 6-bit character representation.

C

cache memory
A mechanism interposed in the memory hierarchy between main memory and the central processing unit (CPU) to improve memory transfer rates and, hence, increase processor speeds.

CCITT
See Consultative Committee on International Telegraphy and Telephony.

CD-ROM
Compact disc read-only memory. A high-density read-only storage medium. The data is stored on a removable polycarbonate disk, and is read by a laser beam.

central processing unit (CPU)
The computer hardware unit that controls and executes the instructions contained in object code files.

communications processor local area network (CPLAN)
In BNA Version 2, a cable and associated connections that can be used to hook the CP2000s at a site with the A Series hosts equipped with integrated communications processors (ICPs).

configuration
(1) A description of selected hardware or software options or capabilities. (2) A set of hardware resources in an installed system. In particular, a configuration is a representation of the devices in the I/O subsystem and memory subsystem. (3) In the Interactive Datacomm Configurator (IDC), the logical representation of a data communications network.

configuration file
(1) A table that contains the configuration of a system. The configuration table is stored in the disk directory of the halt/load family. (2) For the SYSTEM/CONFIGURATOR utility, a file that lists and describes the hardware resources and selected software information that make up a configuration. The configuration file can contain descriptions of several different hardware and software configurations for a system. (3) In X.25, a file that is constructed by the user and that contains static information for the specified data terminal equipment (DTE) addresses. (4) In the Communications Management System (COMS), a file that contains descriptions of the tables defined through the COMS Utility program. These tables contain information on message routing, security, dynamic program control, and synchronized recovery. This file is also referred to as the COMS CFILE.

Consultative Committee on International Telegraphy and Telephony (CCITT)
An advisory committee established under the United Nations to recommend worldwide standards. This committee established X.25 as the standard interface between data terminal equipment (DTE) and data circuit terminating equipment (DCE) operating in the packet mode for packet-switched data networks (PSDNs).

CP 2000
See CP 2000 communications processor.

CP 2000 communications processor
A data communications processor (DCP) that provides communications interfaces to local area networks (LANs) and wide area networks (WANs), including BNA Version 2 and Transmission Control Protocol/Internet Protocol (TCP/IP) networks. The CP 2000 also provides connections to terminals controlled by BNA Version 2 software.

CPDLP
See communications processor data link processor.

CPLAN
See communications processor local area network.

CPU
See central processing unit.

D

DASDL
See Data and Structure Definition Language.

data circuit terminating equipment (DCE)
In X.25, the functional unit of a data station that establishes, maintains, and releases a connection and provides the functions necessary for any code or signal conversion between the data terminal equipment (DTE) and the data transmission line. A DCE can be a separate piece of equipment. A DCE is the network supplier's equipment that can serve several user installations and is the user's entry point to the network.

data comm
See data communications.

data comm mode
(1) A mode of operation at an operator display terminal (ODT) in which interaction is controlled by the Communications Management System (COMS). The operator can use this mode to access COMS windows such as the Menu-Assisted Resource Control (MARC) interface or the Command and Edit (CANDE) message control system (MCS). (2) A method of operating at an operator display terminal (ODT) in which interaction is controlled by the Communications Management System (COMS). Data comm mode enables the operator to perform system functions without knowing the command syntax. An ODT in data comm mode has access to the Menu-Assisted Resource Control (MARC) interface, the Command and Edit (CANDE) message control system (MCS), and other available COMS windows, and can be used as a remote terminal.

data comm station
In BNA, a station connected to a network support processor (NSP) or data communications data link processor (DCDLP) that is being used as a terminal.

data communications (data comm)
The transfer of data between a data source and a data sink (two computers, or a computer and a terminal) by way of one or more data links, according to appropriate protocols.

data communications controller (DCC)
The subset of the master control program (MCP) operating as a group of independent tasks, each associated with one network support processor (NSP) or data communications data link processor (DCDLP).

data communications data link processor (DCDLP)
A data communications processor (DCP) that combines the functions of a network support processor (NSP) and a line support processor (LSP) into one physical data link processor (DLP) and supports up to four lines of communication.

data communications processor (DCP)
A hardware component that was replaced by the network support processor (NSP).

data definition language (DDL)
A language used to describe data in a database.

data field
An area in a data record that contains one particular piece of information.

data link control (DLC)
In X.25, noninformation exchanges that set up, control, check, and terminate the information exchanges between two stations on a data link.

data link processor (DLP)
A processor that serves as the system interface to a specific peripheral device, controller, or communications network.

data manipulation language (DML)
A language used to write expressions that retrieve, store, delete, and update data in a database.

data terminal equipment (DTE)
The functional unit of a data station that establishes, maintains, and releases a connection and provides code and signal conversion between the data station and the transmission line. A DTE can serve as a data source, a data sink, or both and can provide for the data communications control functions to be performed in accordance with link protocol. Packet-mode DTEs divide the data into packets. Non-packet-mode DTEs require packet assemblers/disassemblers (PADs) to operate in an X.25 message control system (MCS) environment.

Data Transfer System (DTS)
A Unisys product that enables data transfer between workstations or personal computers (PCs) and Unisys mainframe computers. DTS also provides virtual disk and virtual printer capabilities.

database (DB)
An integrated, centralized system of data files and program utilities designed to support an application. The data sets and associated index structures are defined by a single description. Ideally, all the permanent data pertinent to a particular application resides in a single database. The database is considered a global entity that several applications can access and update concurrently.

database management system (DBMS)
The software used to store, retrieve, update, report on, and protect data in a database.

DB
See database.

DBMS
See database management system.

DCC
See data communications controller.

DCDLP
See data communications data link processor.

DCE
See data circuit terminating equipment.

DCP
See data communications processor.

DDL
See data definition language.

DDTS
See DOS Data Transfer System.

disk
A random-access data storage device consisting of one or more circular platters that contain information recorded in concentric circular paths called tracks. Data on a disk are accessed by movable read/write heads. Some disks are removable. *Synonym for* disk pack, pack.

disk drive
The device on which a disk is mounted. The disk drive has movable read/write heads that access the data on the disk.

disk drive controller
The device that controls the disk drive units and transfers information between the host system and the disk drive units. On some systems, this device is also referred to as a D-machine.

disk file
A file stored on a disk or disk pack.

disk operating system (DOS)
An operating system on a microcomputer, called a disk operating system because the primary function of the earliest versions of microcomputer operating systems was to manage files on magnetic disks.

distributed systems service (DSS)
One of a collection of services provided on Unisys hosts to support communications across multihost networks. DSSs can be services such as file handling, station transfer, and mail transfer.

DLC
See data link control.

DLP
See data link processor.

DML
See data manipulation language.

DOS
See disk operating system.

DOS Data Transfer System (DDTS)
A module of the Data Transfer System (DTS) that operates on a workstation such as the B 25 or the IBM PC and provides most of the DTS functions. Both this module and the DTSMF module on the mainframe (or a customized mainframe module) must be initiated before a data transfer can proceed.

DSS
See distributed systems service.

DTE
See data terminal equipment.

DTS
See Data Transfer System.

DTSMF module
The module of the Data Transfer System (DTS) that runs on the mainframe. Both this module and the DTSB20 module on the BTOS family of workstations must be initiated before a data transfer can proceed. The two modules communicate with each other through a data communications line.

E

EBCDIC

Extended Binary Coded Decimal Interchange Code. An 8-bit code representing 256 graphic and control characters that are the native character set of most mainframe systems.

EDCDLP

See enhanced data communications data link processor.

editor

A Network Definition Language II (NDLII) program module that defines an input process and an output process. These processes implement application-dependent editing on the text portions of input and output messages according to the requirements of specific terminal types.

enhanced data communications data link processor (EDCDLP)

A data communications processor (DCP) that combines the functions of a network support processor (NSP) and a line support processor (LSP) into one physical data link processor (DLP) and supports up to eight lines of communication. The EDCDLP is an upgrade from the data communications data link processor (DCDLP); it has a faster processor and a larger amount of usable random-access memory (RAM).

F

file attribute

An element that describes a characteristic of a file and provides information the system needs to handle the file. Examples of file attributes are the file title, record size, number of areas, and date of creation. For disk files, permanent file attribute values are stored in the disk file header.

H

help

A method of operation in Menu-Assisted Resource Control (MARC) and similar screen-based products in which help text is displayed by pressing the SPCFY (specify) key on a selection or in a field, or by entering HELP or TEACH along with a keyword.

help book

A file of help text that is generated by the Help Utility. The help text is intended to provide online information for users. The help book is accessed at run time when a user presses the SPCFY (specify) key or enters HELP or TEACH along with a keyword.

HLI

See host language interface.

host language interface (HLI)

A programmatic interface that enables an application to directly access a separately bundled software package, such as the Screen Design Facility (SDF), the

Communications Management System (COMS), or the Semantic Information Manager (SIM). An HLI is accessed through compiler language extensions for the hosting application.

I

I/O subsystem
The hardware and software that manage all transfers of information between the operating system and peripheral devices.

ICP
See integrated communications processor, intelligent communications processor.

INIT file
See network initialization file.

integrated communications processor (ICP)
In BNA Version 2, a data link processor (DLP) that handles a significant portion of communications overhead. The ICP also provides a connection to the communications processor local area network (CPLAN). At least one ICP for each A Series host is needed to connect the host to a BNA Version 2 network.

intelligent communications processor (ICP)
A processor that multiplexes subchannels over a single cable to a packet-switched X.25 packet-switched data network (PSDN).

Interactive Productivity (InterPro)
See InterPro.

International Standards Organization (ISO)
A division of the United Nations under which the Consultative Committee on International Telegraphy and Telephony (CCITT) operates. The ISO was established in 1947 to promote the development of standards to facilitate international trade, and to develop mutual cooperation in areas of intellectual, scientific, technological, and economic activity.

InterPro
Interactive Productivity. A family of Unisys software facilities used to create new products and enhance existing products.

ISO
See International Standards Organization.

L

LAN
See local area network.

library
(1) A collection of one or more named routines or library objects that are stored in a file and can be accessed by other programs. (2) A program that exports objects for use by user programs.

line support processor (LSP)
The data communications subsystem processor that manages communication with the host and initiates processes that control the input of messages to and the output of messages from data communications lines.

local area network (LAN)
A network that enables high-speed communications among various devices within a relatively small area.

LSP
See line support processor.

M

master control program (MCP)
The central program of the A Series operating system. The term applies to any master control program that Unisys may release for A Series systems.

MCP
See master control program.

MCS
See message control system.

Memory Disk
A Unisys software feature that enables the use of memory as if it were a disk unit and provides file access with extremely high data-transfer rates and relatively little access time.

message control system (MCS)
(1) A program that controls the flow of messages between terminals, application programs, and the operating system. MCS functions can include message routing, access control, audit and recovery, system management, and message formatting. (2) In X.25, a program that acts as an interface between the application and the Network Definition Language II (NDLII) and handles such functions as routing, security, auditing, and changes in the network.

N

network information file (NIF)
See network information file II.

network information file II (NIFII)
The file generated when a Network Definition Language II (NDLII) program is compiled. This file contains line support processor (LSP) and network support processor (NSP)

code, data structures, and other information. A NIFII is also generally referred to as a network information file (NIF).

network initialization file
A file that provides network configuration information to individual nodes, which enables the nodes to initialize themselves into a complete network by communicating with each other. This file is also referred to as the INIT file or NETINIT file.

Network Services
In BNA, the component responsible for formatting, routing, and transmitting messages. In BNA Version 1, Network Services is divided into components at three logical levels: the Port Level, the Router Level, and the Station Level. In BNA Version 2, Network Services is also divided into components at three logical levels: the Port Level, the Network Layer (which includes routing), and the Link Layer (plus its companion Physical Layer). Network Services is under the control of the network services manager (NSM).

network support processor (NSP)
A data communications subsystem processor that controls the interface between a host system and the data communications peripherals. The NSP executes the code generated by the Network Definition Language II (NDLII) compiler for line control and editor procedures. An NSP can also control line support processors (LSPs).

NIF
Network information file. *See* network information file II.

NIFII
See network information file II.

NSP
See network support processor.

O

Object Definition Language (ODL)
The language used to define the structure and behavior of data in a Semantic Information Manager (SIM) database. ODL is used to construct schemas for creating new SIM databases and for changing the definition of existing SIM databases.

Object Manipulation Language (OML)
The language used to write expressions that retrieve, store, and update data in a Semantic Information Manager (SIM) database.

ODL
See Object Definition Language.

ODT
See operator display terminal.

OI
See Operator Interface.

OIM

See Operator Interface Message.

OML

See Object Manipulation Language.

Open Systems Interconnection (OSI)

A set of data communications standards defined by the International Organization for Standardization (ISO) that provide for communications between different types of computer systems. The application services defined under OSI include File Transfer, Access, and Management (FTAM) and the Message Handling System (MHS).

operator display terminal (ODT)

(1) A terminal or other device that is connected to the system in such a way that it can communicate directly with the operating system. The ODT allows operations personnel to accomplish system operations functions through either of two operating modes: system command mode or data comm mode. (2) The name given to the system control terminal (SCT) when it is used as an ODT.

Operator Interface (OI)

BNA software that you can use to control your network. The OI provides commands and inquiries you can issue, responses to these commands, and network reports.

Operator Interface Message (OIM)

A message that consists of BNA OI commands (including inquiries), responses, and reports that enable you to control and monitor BNA activity.

OSI

See Open Systems Interconnection.

P

packet-switched data network (PSDN)

A data communication network that transmits data by dividing messages into units (packets), transmitting the packets separately to their destinations, and reassembling the message at the receiving end.

peripheral test driver (PTD)

A module of the master control program (MCP) that executes maintenance tests for peripheral devices.

physical unit type 2 (PUT2)

A peripheral node with cluster controller capabilities for associated devices that provides users access to the network or performs services for users. It can attach only to a subarea node. A PUT2 also communicates with network addressable units at adjacent PUT2.1 nodes.

physical unit type 5 (PUT5)

A subarea node with SSCP capabilities.

PL/I
Programming Language I. A high-level, structured programming language designed primarily for scientific and commercial use.

print system
A software system used to control when, where, and how printer backup files are printed.

privileged user
A user with the PU usercode attribute assigned to his or her usercode in the USERDATAFILE. No file-access security checking is normally performed for actions taken under a usercode with privileged status.

PSDN
See packet-switched data network.

PTD
See peripheral test driver.

PUT2
See physical unit type 2 (PUT2).

PUT5
See physical unit type 5 (PUT5).

R

RAM
See random-access memory.

random-access memory (RAM)
A type of memory that allows the reading and writing of a memory cell without regard to the location of the preceding read or write operation on the memory. An important characteristic of RAM is that it is volatile; that is, the data stored in it remains there only as long as the computer is not turned off or rebooted.

read-only memory (ROM)
A type of memory that can be read, but cannot be written to or altered.

remote job entry (RJE)
A Unisys message control system (MCS) that allows jobs, data, and control commands to be sent to a central system from a remote card reader; RJE also allows output of data from the central system to be sent to remote peripherals.

resource management module (RMM)
A hardware module that interfaces with the I/O subsystem and schedules tasks on the E-mode processor (EMP) by way of a message protocol.

RJE
See remote job entry.

RMM

See resource management module.

ROM

See read-only memory.

S

SCSI

See small-computer system interface.

SCT

See system control terminal.

small-computer system interface (SCSI)

An interface adopted by the computer industry as a standard that allows the connection of low-cost peripherals to computer systems.

system control terminal (SCT)

(1) A terminal or other device that is connected to the system in such a way that it can communicate directly with the maintenance processor. An SCT can operate in maintenance mode or in operator display terminal (ODT) mode. On some systems, the SCT also provides a remote support mode. (2) A terminal used to enter information. An SCT can be used three ways: as an operator display terminal (ODT) to interface with the operating system, as a maintenance display terminal (MDT) to interface with the maintenance subsystem, or as a remote display terminal (RDT) to interface with remote support. The windows providing these uses are available once the automatic initialization sequence has finished.

SYSTEMUSER

(1) A type of user status that allows the user access to BNA network commands and to system commands through Menu-Assisted Resource Control (MARC) and through the BNA operator display terminal (ODT) distributed systems services (DSSs). However, the following are two exceptions to this access: system primitive commands and those commands reserved for users with security-administrator status when that status is authorized. SYSTEMUSER status is granted to a usercode by making the SYSTEMUSER attribute TRUE for the usercode in the USERDATAFILE. (2) A user with SYSTEMUSER status.

T

Telnet

An application-level protocol that logically connects a station to a remote host so that the station appears to be directly connected to that remote host.

U

usercode
An identification code used to establish user identity and control security, and to provide for segregation of files. Usercodes can be applied to every task, job, session, and file on the system. A valid usercode is identified by an entry in the USERDATAFILE.

V

virtual disk
In the Data Transfer System (DTS), a feature that permits a file on the host system to be assigned as a personal computer (PC) disk drive. Once assigned, a virtual disk appears to the PC user to be a disk drive that is physically attached to the PC.

virtual memory
A system technique that treats disk storage space as an extension of main memory, giving the appearance of a larger main memory than actually exists.

virtual printer
In the Data Transfer System (DTS), a host printer that can be accessed by the personal computer (PC) user as if it were physically attached to the workstation.

W

WAN
See wide area network.

wide area network (WAN)
A network that enables communications among various devices spread over a large area (for example, devices located in different cities).

X

X.25
A recommendation by the Consultative Committee on International Telegraphy and Telephony (CCITT) that specifies the interface between user data terminal equipment (DTE) and packet switching data circuit terminating equipment (DCE).

Index

A

B

C

D

E

F

G

H

I

K

L

M

N

O

P

R

S

T

U

W

X

Help Us To Help You

Publication Title

Document Number Date

Unisys Corporation is interested in your comments and suggestions regarding this manual. We will use them to improve the quality of your Product Information. Please check type of suggestion:

O Addition O Deletion O Revision

Recommended Change (Please identify affected pages)

Name Telephone Number

Title Company

Address (Street, City, State, Zip)

Help Us To Help You

Publication Title

Document Number Date

Unisys Corporation is interested in your comments and suggestions regarding this manual. We will use them to improve the quality of your Product Information. Please check type of suggestion:

O Addition O Deletion O Revision

Recommended Change (Please identify affected pages)

Name Telephone Number

Title Company

Address (Street, City, State, Zip)

Help Us To Help You

Publication Title

Document Number Date

Unisys Corporation is interested in your comments and suggestions regarding this manual. We will use them to improve the quality of your Product Information. Please check type of suggestion:

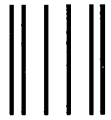
O Addition O Deletion O Revision

Recommended Change (Please identify affected pages)

Name Telephone Number

Title Company

Address (Street, City, State, Zip)



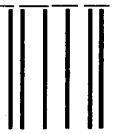
No Postage
necessary
if mailed in the
United States

BUSINESS REPLY MAIL

First Class Permit No. 817 Detroit, MI 48232

Postage Will Be Paid By Addressee

Unisys Corporation
ATTN: Publications
25725 Jeronimo Road
Mission Viejo, CA 92691-9826 USA



No Postage
necessary
if mailed in the
United States

BUSINESS REPLY MAIL

First Class Permit No. 817 Detroit, MI 48232

Postage Will Be Paid By Addressee

Unisys Corporation
ATTN: Publications
25725 Jeronimo Road
Mission Viejo, CA 92691-9826 USA

No Postage
necessary
if mailed in the
United States

BUSINESS REPLY MAIL

First Class Permit No. 817 Detroit, MI 48232

Postage Will Be Paid By Addressee

Unisys Corporation
ATTN: Publications
25725 Jeronimo Road
Mission Viejo, CA 92691-9826 USA

86000361-000