

ULTRIX

digital

Reader's Guide and Master Index

ULTRIX

Reader's Guide and Master Index

Order Number: AA-ME82B-TE

June 1990

Product Version: ULTRIX Version 4.0 or higher

This manual describes the documentation kits and documents that are available for your ULTRIX system. The master index helps you find topics in the documentation set.

**digital equipment corporation
maynard, massachusetts**

Contents

About This Manual

Audience	v
Organization	v
Conventions	v

1 Reader's Guide

1.1 Online Reference Information	1-2
1.2 General Information Documentation Kit	1-2
1.2.1 Volume 1: Product Summaries and Unsupported Software	1-4
1.2.2 Volume 2: System Use	1-4
1.2.3 Volume 3: Command Reference	1-5
1.3 System and Network Management Documentation Kit	1-5
1.3.1 Volume 1: System Setup	1-6
1.3.2 Volume 2: Local System Management	1-7
1.3.3 Volume 3: Problem Solving	1-8
1.3.4 Volume 4: Network Management	1-9
1.3.5 Volume 5: Server and Client Management	1-10
1.3.6 Volume 6: Device and File Reference	1-10
1.3.7 Volume 7: Maintenance Command Reference	1-11
1.4 Software Development Tools Documentation Kit	1-11
1.4.1 Software Development Kit	1-12
1.4.1.1 Volume 1: General Programming	1-12
1.4.1.2 Volume 2: VAX C Programming	1-13
1.4.1.3 Volume 3: Network Programming	1-13
1.4.1.4 Volume 4: System Call Reference	1-14
1.4.1.5 Volume 5: Library Routine Reference	1-14
1.4.2 ULTRIX/SQL Documentation Kit	1-14
1.4.3 CDA Documentation Kit	1-15
1.4.4 Supplementary Documents Kit	1-15
1.5 Ordering ULTRIX Documentation	1-16

About This Manual

This manual describes the documentation kits and documents that are available for your ULTRIX system. The master index helps you find topics in the ULTRIX documentation set.

Audience

You should read this manual if you use ULTRIX documentation. This manual helps you decide which manuals in the documentation are most useful to you and how you should use those manuals. The master index helps you find a specific topic in the documentation set by pointing you to the pages in the appropriate manual where the topic is discussed. The master index also helps you determine which manual is the best reference for a particular topic.

Organization

This manual contains the following chapters:

- | | | |
|-----------|------------------------|---|
| Chapter 1 | Reader's Guide | Describes the audience and purpose of each documentation kit. Also describes the manuals that compose each kit and how to order ULTRIX documentation. |
| Chapter 2 | About the Master Index | Describes the special typographical conventions used in the master index. |
| Chapter 3 | Index | Provides a master index for books in the ULTRIX documentation set. |

Conventions

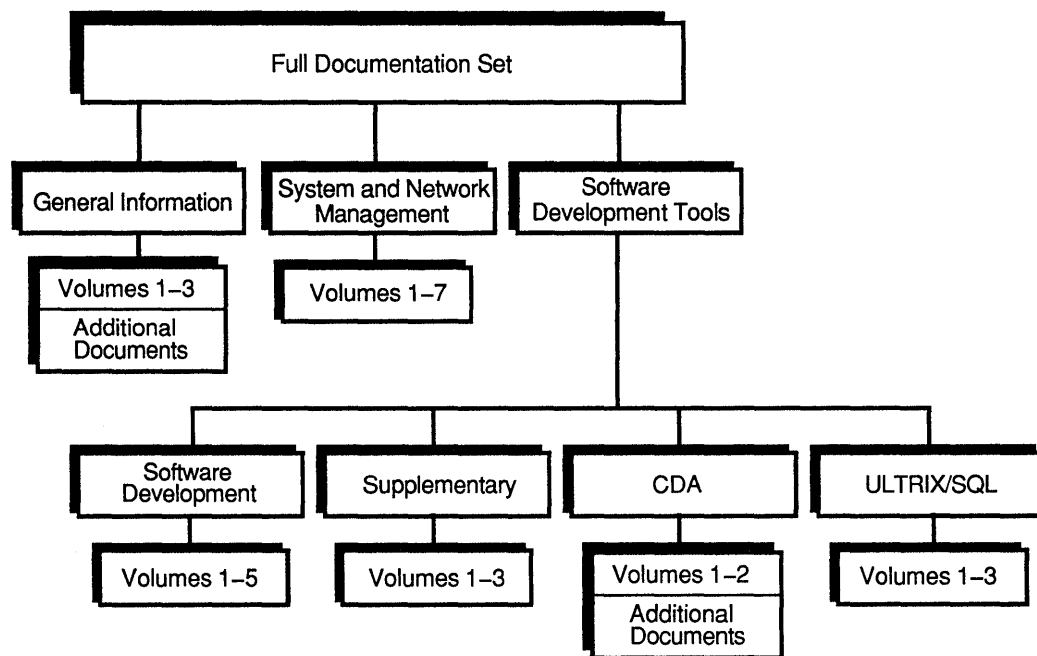
The following list details the conventions used in this document. See Chapter 2 for information about conventions used in the master index.

- | | |
|-------------------|---|
| <code>%</code> | The default user prompt is your system name followed by a right angle bracket. In this manual, a percent sign (%) is used to represent this prompt. |
| user input | This bold typeface is used in interactive examples to indicate typed user input. |

The ULTRIX Full Documentation Kit contains all the manuals in the ULTRIX documentation set, with the exception of some installation documents and informational letters. The installation documents and letters are packaged with your ULTRIX software distribution media. Use those documents when you install your ULTRIX system.

The Full Documentation Kit is divided into three smaller kits. Figure 1-1 illustrates how the documentation kit is divided.

Figure 1-1: Organization of the Full Documentation Kit

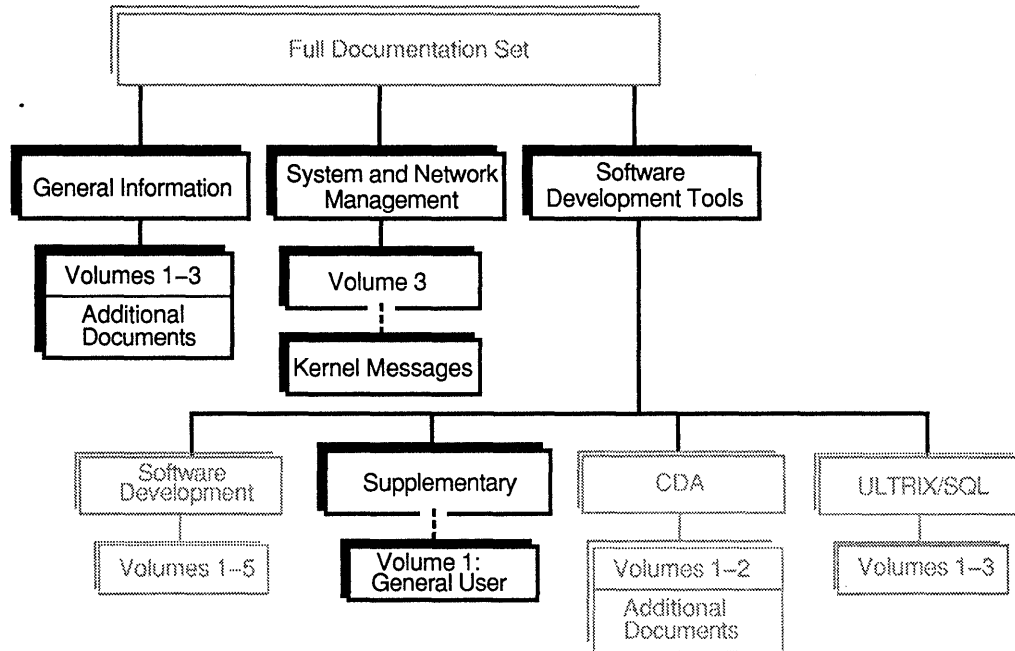


ZK-0184U-R

The three-kit division of the Full Documentation Kit addresses the needs of three audiences:

- **General users**
People who are general users (which includes anyone who uses an ULTRIX system) should read and refer to the manuals in the General Information Documentation Kit.

Figure 1-2: Documents of Interest to General Users



ZK-0191U-R

As the figure shows, general users might need to refer the *Kernel Messages Reference Manual* and the *Supplementary Documents, Volume 1: General User* in addition to the manuals in the General Information Documentation Kit. For a description of the *Kernel Messages Reference Manual*, see Section 1.3.3. For a description of the *Supplementary Documents, Volume 1*, see Section 1.4.4.

The following documents are part of the General Information Documentation Kit, but are not part of any volume in that kit:

- *Application Sources Mailer*
You can return this reply card to receive the *ULTRIX Software Source Book*. The *ULTRIX Software Source Book* contains a list of products that are developed by vendors other than Digital and that run on the ULTRIX system.
- *vi Beginner's Reference Card*
The card lists *vi* editor commands and their functions and is useful as a quick reference for new users of the *vi* text editor.
- *Release Notes*
This manual provides information about how the ULTRIX software has changed for this release. The *Release Notes* also describe errors in this version of the software and documentation changes. You should read the *Release Notes* because they contain information that is important to each type of ULTRIX system user and to each release of the ULTRIX software.

The rest of this section describes the volumes in the General Information Documentation Kit.

- *Security Guide for Users*

This guide describes the security features available in the ULTRIX system. The manual explains how you can protect your account, files, and workstation. You should read this manual if you use an ULTRIX system and are concerned about security issues.

- *Reference Pages Section 7: Macro Packages and Conventions*

This reference page section contains miscellaneous information. Refer to this section for descriptions of the following:

- ASCII character codes
- Mail addressing formats
- The root file system
- The `time` command
- The `man`, `ms`, and `me` macro packages for formatting text

1.2.3 Volume 3: Command Reference

Volume 3A of the General Information Documentation Kit contains the *Reference Pages Section 1: Commands A – L*. Volume 3B contains the *Reference Pages Section 1: Commands M – Z*. Refer to these reference pages for descriptions of ULTRIX commands that are available to all users. (System and network management commands are documented in the *Reference Pages Section 8: Maintenance*.)

1.3 System and Network Management Documentation Kit

System administrators need the System and Network Management Documentation Kit. This documentation kit contains manuals that describe how to configure systems, maintain disks, and set up and use system administration tools. Figure 1-3 illustrates the documents that are useful to system administrators.

- *Guide to System and Network Setup*
This guide identifies a series of tasks that you must perform to set up your system and establish it on a network. The guide provides step-by-step information on how to complete each task. Although the guide is primarily focused on setting up your system and network, you can use it to modify an existing system or network configuration. You should read this manual if you are a novice system or network administrator.
- *Guide to the Location Broker*
This guide describes the administration of the Location Broker, a component of DECrpc Version 1.0 that is based on Apollo's Network Computing System (NCS). Location Broker software provides run-time name service support for distributed application programs that use remote procedure calls. You should read this manual if you are a system administrator who sets up the Location Broker or administers systems that run distributed applications.
- *Security Guide for Administrators*
This guide describes the tasks and considerations associated with managing system security in an ULTRIX environment. You should read this guide if you are responsible for establishing and implementing system security policies on any machine that runs the ULTRIX operating system.
- *Guide to PrintServer Clients*
This guide explains how to use the PrintServer software to print files on Digital's family of network laser printers. The guide explains the commands you use to print files and manage printer queues. The manual also describes how to customize your print jobs and handle some special types of media. You should read this manual if you use the PrintServer to print files or if you set up and maintain the PrintServer environment.

1.3.2 Volume 2: Local System Management

Volume 2 of the System and Network Management Documentation Kit describes how to manage a standalone, or local, ULTRIX system. This volume contains the following manuals:

- *Guide to Configuration File Maintenance*
This guide contains information on how to maintain the system configuration file and how to build a new kernel, either automatically or manually. The configuration file provides you with the ability to configure your system to meet your needs. You should read this manual if you are responsible for maintaining an ULTRIX system.
- *Guide to Shutdown and Startup*
This guide gives information on boot commands and on shutting down and starting up your system. The manual gives the boot command for each processor ULTRIX supports. The guide also explains various ways to shut down your system and the three system startup modes: single-user, multiuser, and conversational. You should read this manual if you are responsible for managing an ULTRIX system.

1.3.4 Volume 4: Network Management

Volume 4 of the System and Network Management Documentation Kit describes managing networks and distributed system services. This volume contains the following manuals:

- *Introduction to Networking and Distributed System Services*

This guide provides an overview of basic networking concepts and the ULTRIX software's distributed system services. The distributed system services include the BIND/Hesiod and Yellow Pages (YP) naming services, the Network Time Protocol (NTP) and the Timed Synchronization Protocol (TSP) time services, and the Kerberos authentication service. The guide also provides an overview of the Simple Network Management Protocol (SNMP) and the ULTRIX implementation of the SNMP Agent. You should read this guide if you are responsible for maintaining TCP/IP networks.

- *Guide to Ethernet Communications Servers*

This guide provides information about the tasks and procedures you use to interface the ULTRIX operating system and the communications servers in an Ethernet LAN. The guide also provides information about maintaining these interfaces. You should read this manual if you are responsible for maintaining local area networks on an ULTRIX system.

- *Guide to the Network File System*

This guide provides information about the Network File System (NFS). NFS is a facility for sharing files in a heterogeneous environment of different processors, operating systems, and networks. The manual provides introductory, setup, and troubleshooting information and helps you develop NFS management procedures. You should read this manual if the system you administer is an NFS server or client.

- *Guide to the BIND/Hesiod Service*

This guide provides introductory information about the BIND/Hesiod service. The BIND/Hesiod service allows client systems to obtain distributed database information, such as host names, host addresses, and user passwords, from a server. The guide explains how to install and troubleshoot this service. You should read this manual if you are responsible for maintaining utilities, such as the `mail` utility, on a number of ULTRIX systems.

- *Guide to the Yellow Pages Service*

This guide gives information about the Yellow Pages (YP) service. YP is a distributed database lookup service that maintains and propagates databases around a network. You should read this manual if you are responsible for managing more than one system connected by a network.

- *Guide to Kerberos*

This guide describes Kerberos, its setup, and the network programming connections of the `kerberos` daemon to a Kerberos-authenticated application. Kerberos enhances security by authenticating applications to each other across machine boundaries in a distributed network. ULTRIX Kerberos supports the authentication of commonly networked applications, such as `named` and `auditd`. You should read this manual if you are responsible for setting up a network with Kerberos authentication.

pages if you are a programmer who is writing a device driver or a system administrator who is partitioning a disk.

- *Reference Pages Section 5: File Formats*

These reference pages describe formats of various files and how the system files are used. The files described include assembler and link editor output, system accounting, and file system formats. Refer to this reference page section if you need information about file formats.

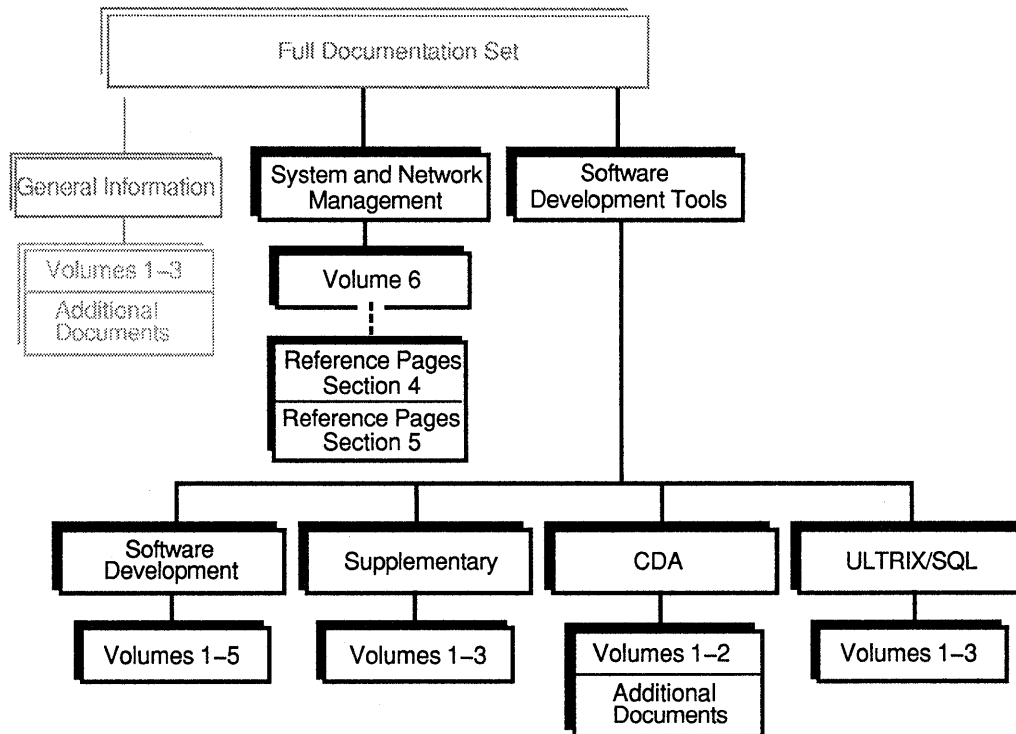
1.3.7 Volume 7: Maintenance Command Reference

Volume 7 of the System and Network Management Documentation Kit contains the *Reference Pages Section 8: Maintenance*. These reference pages describe commands used to create new file systems and to verify the integrity of file systems. Use these reference pages when you perform system administration tasks.

1.4 Software Development Tools Documentation Kit

Software developers need the Software Development Tools Documentation Kit. This kit contains four subkits that provide information programmers might find useful: the Software Development Documentation Kit, the ULTRIX/SQL Documentation Kit, the CDA Documentation Kit, and the Supplementary Documents Kit. Figure 1-4 shows the documents that are useful to programmers.

Figure 1-4: Documents of Interest to Programmers



ZK-0196U-R

Notice that in addition to the manuals in the Software Development Tools Kit, programmers might need the *Reference Pages Section 4: Special Files* and the

- *Guide to Preparing Software for Distribution on ULTRIX Systems*
This guide contains information about preparing software distribution kits that are compatible with the `setld` utility. The `setld` utility installs and manages ULTRIX software kits and ULTRIX layered product kits. You should read this manual if you prepare software for installation on ULTRIX systems.
- *The Packet Filter: An Efficient Mechanism for User-Level Network Code*
This article gives information about implementing networking protocols using the packet filter, a kernel-resident, protocol-independent packet demultiplexer. You can write user-level (as opposed to kernel-resident) protocols that use the packet filter to demultiplex received packets. When you use the packet filter, your user-level protocol performs efficiently, and you avoid the development and maintenance issues involved in writing kernel-resident protocols. You should read this article if you develop network protocols.
- *POSIX Conformance Document*
This manual details how Version 4.0 of the ULTRIX operating system meets the “conforming implementation” requirements for an operating system as defined in the following standards:
 - IEEE 1003.1–1988 (POSIX) standard
 - POSIX Federal Information Processing Standard (FIPS 151–1)
 - ISO DIS 9944

You should read this manual if you want to evaluate the ULTRIX operating system for POSIX conformance.

1.4.1.2 Volume 2: VAX C Programming – The second volume of the Software Development Documentation Kit contains the *Guide to VAX C for ULTRIX*. This guide contains information on how to develop and debug VAX C programs on the ULTRIX operating system. The VAX C compiler is written specifically to compile programs that run on VAX hardware. The ULTRIX system version of the VAX C compiler is similar to the VAX C compiler that runs on the VMS system. You should read this manual if you plan to use VAX C.

1.4.1.3 Volume 3: Network Programming – Volume 3 of the Software Development Documentation Kit contains manuals that address writing programs that run over a network. This kit contains the following manuals:

- *Guide to Network Programming*
This guide introduces the architectures and components of the ULTRIX network programming environment. The guide discusses how network layering schemes, the socket interface, and ULTRIX network components can help you write network applications. The manual also describes the programming interface to the Extended SNMP Agent supported by the ULTRIX operating system. You should read this manual if you write network application programs.

- *ULTRIX/SQL NET User's Guide*
This guide explains how to access remote ULTRIX/SQL databases and use the `netu` utility.
- *ULTRIX/SQL Database Administrator's Guide*
This guide describes how to create and maintain an ULTRIX/SQL database.
- *Volume 2: ULTRIX/SQL Reference Manual*
This manual describes the ULTRIX/SQL relational database system and query language. The manual also explains how to define terminals to the ULTRIX/SQL, forms-based utilities.

1.4.3 CDA Documentation Kit

The CDA (Compound Document Architecture) Documentation Kit contains user and reference material that describes the CDA Services used to convert, view, and transfer CDA documents and to create CDA-conforming compound document applications and converters. The CDA Services and their documentation are intended for use by system and application programmers.

The CDA Documentation Kit consists of the following manuals:

- *Introduction to the CDA Services*
This manual provides an overview of compound document processing terminology and the various components of CDA. The components of CDA include the CDA Toolkit; the Converter Architecture; the DDIF and DTIF interchange formats; and the command line interface to converting, viewing, and transferring CDA documents.
- *Guide to Creating Compound Documents with the CDA Toolkit*
This guide is a tutorial that describes how to use the CDA Toolkit to create CDA-conforming compound document applications on ULTRIX and VMS systems.
- *CDA Reference Manual Volume 1 and Volume 2*
This manual provides material that supplements the CDA user guides. The reference material describes the DDIF and DTIF aggregates and syntax diagrams; CDA Toolkit and user-defined routines; converter routines; callable DECwindows and character-cell CDA viewer routines; and the ULTRIX and VMS system commands used to convert, view, and transfer CDA documents.

1.4.4 Supplementary Documents Kit

The ULTRIX Supplementary Documents Kit contains three volumes. Each volume contains articles written by computer scientists and program developers at Bell Laboratories and the University of California at Berkeley. Topics range from “getting-started” procedures to the details of the operating system. The articles in the supplementary information provide some information that is unavailable elsewhere. However, you should be aware that the information in some articles is dated.

Some information in the *Supplementary Documents* is provided by other manuals in the ULTRIX documentation set. Where other manuals duplicate information in the

Table 1-1: ULTRIX Documentation Kit Order Numbers

Documentation Kit	Order Number
Full Documentation Kit	QA-VEYAA-GZ
General Information Documentation Kit	QA-VEYAD-GZ
System and Network Management Documentation Kit	QA-VEYAE-GZ
Software Development Tools Documentation Kit	QA-VEYAB-GZ
Software Development Documentation Kit	QA-VEYAG-GZ
ULTRIX/SQL Documentation Kit	QA-YHTAA-GZ
CDA Documentation Kit	QA-VEYAH-GZ
Supplementary Documents Kit	QA-VEYAC-GZ

Each kit includes the manuals, binders to hold each volume, and spine inserts that label the binders.

You can also order individual manuals. In most cases, individual manuals come with only the manual covers and any tabbed dividers. Manuals that have an order number beginning with the letters "AI" include binders and spine inserts, even if ordered individually.

You can order binders to store individual manuals. Digital offers binders for books that are 8 1/2 × 11 inches; the binders have rings that are 1 1/2, 2, or 2 1/2 inches in diameter. Table 1-2 lists the order numbers for the binders.

Table 1-2: 8 1/2 × 11-Inch Binder Order Numbers

Binder Ring Size	Order Number
1 1/2-inch ring	99-07642-01
2-inch ring	99-07643-01
2 1/2-inch ring	99-07644-01

Table 1-3 lists the order number for each manual in the Version 4.0 ULTRIX documentation set. Individual manuals listed in this table are revised periodically. If you have a version of the ULTRIX system other than Version 4.0, the manual numbers listed in this table might be not be correct for your system. The best way to be sure that you are ordering the correct manual is to telephone Technical Support before you place your order. Technical Support can help ensure that you order the manuals that apply to your version of the operating system. (The telephone number for Technical Support is listed on the "How to Order Additional Documentation" page.)

Table 1-3: (continued)

Title	Order Number
<i>Guide to VAX C for ULTRIX</i>	AA-ME83B-TE
<i>Guide to X/Open curses Screen Handling</i>	AA-LY27B-TE
<i>Guide to the X/Open Transport Interface</i>	AA-PBKXA-TE
<i>Guide to the Yellow Pages Service</i>	AA-ME00B-TE
<i>Introduction to the CDA Services</i>	AA-PB0JA-TK
<i>Introduction to Networking and Distributed System Services</i>	AA-ME97B-TE
<i>Kernel Messages Reference Manual</i>	AA-PBKUA-TE
<i>The Little Gray Book: An ULTRIX Primer</i>	AA-MG64B-TE
<i>The Packet Filter: An Efficient Mechanism for User-Level Network Code</i>	AA-PBM2A-TE
<i>POSIX Conformance Document</i>	AA-LY25C-TE
<i>Reader's Guide and Master Index</i>	AA-ME82B-TE
<i>Reference Pages Section 1: Commands</i>	AI-PC0WA-TE
<i>Reference Pages Section 2: System Calls</i>	AA-LY15B-TE
<i>Reference Pages Section 3: Library Routines</i>	AA-LY16B-TE
<i>Reference Pages Section 4: Special Files</i>	AA-LY17B-TE
<i>Reference Pages Section 5: File Formats</i>	AA-LY18B-TE
<i>Reference Pages Section 7: Macro Packages and Conventions</i>	AA-LY19B-TE
<i>Reference Pages Section 8: Maintenance</i>	AA-LY20B-TE
<i>Reference Pages for Unsupported Software</i>	AA-MF05B-TE
<i>Release Notes</i>	AA-ME85C-TE
<i>Security Guide for Administrators</i>	AA-PBKTA-TE
<i>Security Guide for Users</i>	AA-PBKQA-TE
<i>Supplementary Documents, Volume 1: General User</i>	AA-MF06A-TE
<i>Supplementary Documents, Volume 2: Programmer</i>	AA-MF07A-TE
<i>Supplementary Documents, Volume 3: System Manager</i>	AA-MF08A-TE
<i>Technical Summary</i>	AA-MG63B-TE
<i>ULTRIX/SQL Database Administrator's Guide</i>	AA-PBZ8A-TE
<i>ULTRIX/SQL Installation Guide</i>	AA-PBZBA-TE
<i>ULTRIX/SQL NET User's Guide</i>	AA-PBZ7A-TE
<i>ULTRIX/SQL Operations Guide</i>	AA-PBZ9A-TE
<i>ULTRIX/SQL Reference Manual</i>	AA-PBZ6A-TE
<i>ULTRIX/SQL Release Notes</i>	AA-PBZAA-TE
<i>vi Beginner's Reference Card</i>	AV-MF10A-TE

About the Master Index **2**

The master index helps you locate topics in the ULTRIX documentation by directing you to manuals and page numbers.

The master index entries follow these conventions:

- Each master index page reference is preceded by an abbreviated manual title that indicates which manual discusses the topic. For example, the following master index entry points to page 3–10 in the *Guide to Backup and Restore*:

fsck command

checking restored file system with, *Backup* 3–10

If the subject of the index entry is described in two or more manuals, the page references are alphabetized according to the abbreviated manual title.

Table 2-1 lists the abbreviated title for each manual in the master index.

- Page references for some figures, tables, and notes are indicated by a letter that appears at the end of the page reference. For example, an ‘f’ appears at the end of figure page references and a ‘t’ appears at the end of table page references. The following example shows an index entry for a note:

passwd file

last entry in, *YP* 2–15n

- Each guide in the ULTRIX documentation set is focused on just a few broad topic areas. A guide that focuses on a topic area is the best one to reference for information about that topic. The master index indicates that a particular guide is the best reference for a topic as shown:

Shutdown command, RefPages 8–345

Best reference, Shutdown

shutting down multiuser mode, *Shutdown* 1–1e

In this example, the *Guide to Shutdown and Startup* is identified as the best reference for the topic of the shutdown command.

- Entries in the master index often refer to other entries. For example, the entry for the `mknod` system call contains this reference:

mknod system call

See also `mkdir` command

In general, when an entry refers to another entry, the text of the reference is identical to the other entry. In this case, you would look for the entry ‘‘`mkdir` command’’ in the index.

Some entries contain references to groups of master index entries or books that are not covered by the master index. In this case, the text of the reference is not identical to any other entries. These references appear in italics as shown:

file

See also specific file names

VAX C

See also the Guide to VAX C for ULTRIX

Table 2-1: (continued)

Abbreviation	Manual Title
<i>sccs</i>	<i>Guide to the Source Code Control System</i>
<i>setld</i>	<i>Guide to Preparing Software for Distribution on ULTRIX Systems</i>
<i>Shutdown</i>	<i>Guide to Shutdown and Startup</i>
<i>SysEnviron</i>	<i>Guide to System Environment Setup</i>
<i>SysNetSetup</i>	<i>Guide to System and Network Setup</i>
<i>TechSumm</i>	<i>Technical Summary</i>
<i>TermEmul</i>	<i>Guide to IBM Terminal Emulation for VAX Processors</i>
<i>uucp</i>	<i>Guide to the uucp Utility</i>
<i>X/OpenTransport</i>	<i>Guide to the X/Open Transport Interface</i>
<i>YP</i>	<i>Guide to the Yellow Pages Service</i>

Master Index

Insert tabbed divider here.
Then discard this sheet.

Special Characters

\$status variable, *BGB* 9–7

***roff**

See *me* macro package

See *ms* macro package

? command (TELNET), *RefPages* 1–686

? command (tftp), *RefPages* 1–694

@ shell command, *BGB* 9–4

` (grave accent, back accent)

See grave accent

Numbers

2780/3780 Terminal Emulator

Best reference, *TermEmul*

features of, *TermEmul* 1–1

hardware requirements for, *TermEmul* 1–2

setting up, *TermEmul* 1–4

software requirements for, *TermEmul* 1–3

using, *TermEmul* 2–1 to 2–6

2780d daemon, *RefPages* 8–2

initiating communication with, *TermEmul* 1–7n

2780e/3780e emulator spooler, *RefPages* 1–2 to 1–3

See also 2780d daemon

See also 2780e daemon

See also 3780e emulator spooler

See also BISO SYNC communications interface

See also dpv data communications device

options for, *TermEmul* 2–3

A

a64l subroutine, *RefPages* 3–5

abort command (lpc), *RefPages* 8–188

abort subroutine (standard C), *RefPages* 3–6

abs subroutine (standard C), *RefPages* 3–7

absolute path

explanation of, *Primer* 3–6

absolute value function, *RefPages* 3–7, 3–343 to 3–345

ac program, *RefPages* 8–4

accept system call, *Network_Prog* 2–5, *RefPages* 2–10

access system call, *RefPages* 2–12

account command (ftp), *RefPages* 1–249

accounting file, *RefPages* 2–14

format of, *RefPages* 5–9

maintaining, *RefPages* 8–326

accounting information

types of, *SysEnviron* 5–1

acct file

condensing, *SysEnviron* 5–2

displaying contents of, *SysEnviron* 5–2

format of, *RefPages* 5–8

acct system call, *RefPages* 2–14

See also acct file

acctlog file

definition of, *TermEmul* 1–4

accton command, *RefPages* 8–326

acos subroutine, *RefPages* 3–363

acos subroutine (math), *RefPages* 3–364

acosh subroutine, *RefPages* 3–335

active gateway, *RefPages* 8–310

acucap file, *RefPages* 5–10 to 5–12

adb debugger, *RefPages* 1–5 to 1–10

See also gcore command

add command, *LocBrok* 2–2

addbib program, *RefPages* 1–12

addch macro, *CursesX* 1–3, *RefPages* 3–200

See also putchar subroutine

application

See also distributed application
migrating, *X/OpenTransport* C-1
portability rules, *X/OpenTransport* B-1

application layer

See ISO reference model

apply program, *RefPages* 1-22**apropos command**, *Primer* 1-6, *RefPages* 1-23**ar file**

format of, *RefPages* 5-15

ar program, *RefPages* 1-27 to 1-28

See also ar file

See also nm command

See also ranlib command

arc subroutine, *RefPages* 3-559**arccosine function**, *RefPages* 3-364**archive file**

converting to portable format, *RefPages* 8-12
copying, *RefPages* 1-105, 1-107
maintaining, *RefPages* 1-27
ordering, *RefPages* 1-368
printing object files, *RefPages* 1-473
reconstructing, *RefPages* 1-553 to 1-554
saving on console diskette, *RefPages* 8-13 to 8-17
searching, *RefPages* 5-15

arcsine function, *RefPages* 3-364**arctangent function**, *RefPages* 3-364**arcv command**, *RefPages* 8-12**arff command**, *RefPages* 8-13 to 8-17**argument**

See also flag

system call, *Network_Prog* 2-4 to 3-1

argument list

portable procedures for variable, *RefPages* 3-186

argument vector

getting option letter, *RefPages* 3-61

argv variable

definition of, *BGB* 9-6

arithmetic language

See bc language

arithmetic package

See dc program

arp command, *Ethernet* A-2, *LAN* C-1**arp keyword**

See arp program

arp program, *RefPages* 8-18**array**, *DECrpc* 6-14, 7-8, *nawk* 6-2 to 6-3

as parameters, *DECrpc* 4-7, 6-10
in structures and unions, *DECrpc* 6-8
multidimensional, *DECrpc* 6-8
open, *DECrpc* 6-7, 7-1 to 7-3

article

formatting, *RefPages* 7-43

as assembler, *RefPages* 1-33

See also a.out file

as command (RISC), *RefPages* 1-29**ASCII character**

classifying, *RefPages* 3-25

ASCII character set

map, *RefPages* 7-2t

ASCII collating order, *nawk* 1-4**ascii command (ftp)**, *RefPages* 1-249**ascii command (tftp)**, *RefPages* 1-694**ascii keyword**, *RefPages* 7-2**ASCII string**

converting long integer to, *RefPages* 3-5
converting to, *RefPages* 3-34
converting to numbers, *RefPages* 3-10

asctime subroutine (standard C), *RefPages* 3-20**asin subroutine**, *RefPages* 3-362**asin subroutine (math)**, *RefPages* 3-364**asinh subroutine**, *RefPages* 3-335**ASN.1 notation**, *LAN* 3-4**assembler**, *RefPages* 5-2**assert macro**, *RefPages* 3-9**assign command (pdx)**, *RefPages* 1-502**asynchronous mode**

description of, *X/OpenTransport* 2-4, 2-13
events in, *X/OpenTransport* 2-13

asynchronous notification, *Network_Prog* 2-12**at command**, *RefPages* 1-34 to 1-35**at most once calling semantics**, *DECrpc* 6-8**atan subroutine**, *RefPages* 3-363**atan subroutine (math)**, *RefPages* 3-364**atan2 subroutine**, *RefPages* 3-363**atan2 subroutine (math)**, *RefPages* 3-364

B

- backup level**, *Backup* 1–4
- backup operation**, *Backup* 1–1 to 1–4
 - Best reference*, *Backup*
- backup superblock**
 - definition of, *DiskMaint* 1–2
- bad block**
 - automatic recovery of, *DiskMaint* 4–1
 - detecting and recovering, *DiskMaint* 4–1 to 4–3, 4–9
 - device support for, *DiskMaint* 4 2t
 - high number of, *DiskMaint* 4–3n
- bad block (DSA disk)**
 - detecting and recovering, *DiskMaint* 4–6 to 4–11
- bad block (SCSI disk)**
 - detecting and recovering, *DiskMaint* 4–9 to 4–13
- bad sector**, *RefPages* 8–33 to 8–35
- bad144 command**, *RefPages* 8–33
 - See also* badsect program
- badsect program**, *RefPages* 8–35
- base.idl file**, *DECrpc* 2–8
- basename command**, *BGB* 9–8e, *RefPages* 1–39
- basic installation**
 - See* installation
- baudrate subroutine**, *RefPages* 3–205
- bc calculator**
 - See* calculator
- bc language**, *RefPages* 1–40 to 1–42
 - See also* dc program
- bcmp routine**
 - See* byte string
- bcmp subroutine**, *RefPages* 3–14
- bcopy routine**
 - See* byte string
- bcopy subroutine**, *RefPages* 3–14
- bdiff command**, *RefPages* 1–43
 - See also* diff command
- beep subroutine**, *RefPages* 3–206
- BEGIN pattern**, *nawk* 2–7
- bell command (ftp)**, *RefPages* 1–249
- Berkeley Internet Name Domain**
 - See* BIND service
 - See* BIND/Hesiod service
- bessel keyword (math)**, *RefPages* 3–336
- bg command**, *Primer* 4–12
- bg command (csh)**, *RefPages* 1–126
- bibliography**, *RefPages* 1–12, 1–367
 - formatting, *RefPages* 1–582
 - searching, *RefPages* 1–563
 - sorting, *RefPages* 1–642
- biff command**, *RefPages* 1–44
 - See also* comsat program
- binary command (ftp)**, *RefPages* 1–249
- binary command (tftp)**, *RefPages* 1–694
- binary file**
 - finding printable strings in, *RefPages* 1–652
 - installing, *RefPages* 1–290
 - sending in mail, *RefPages* 1–725
- binary search routine**, *RefPages* 3–13
 - managing tree searches, *RefPages* 3–179
- bind daemon**, *Kerberos* 4–3
- BIND domain name**, *SysNetSetup* 3–4
- BIND environment**
 - setting up, *RefPages* 8–37
- BIND query**
 - resolving, *BIND/Hes* 1–7
- _bind routine**, *DECrpc* 7–11, 7–12e
- BIND server**
 - preinstallation backup of, *BasicInstall* 1–4
- BIND service**, *BIND/Hes* 1–1, 4–7
 - See also* BIND/Hesiod service
- bind system call**, *Network_Prog* 2–4, *RefPages* 2–22
 - See also* listen system call
- BIND/Hesiod client**, *SysNetSetup* 3–8, 3–11
 - automatic setup of, *BIND/Hes* 3–4
 - definition of, *BIND/Hes* 1–7, *Kerberos* 4–2
 - manual setup of, *BIND/Hes* A–1 to A–2
- BIND/Hesiod data file entry**, *BIND/Hes* 2–1 to 2–10
- BIND/Hesiod primary server**
 - auth database and, *Kerberos* 5–2
 - definition of, *Kerberos* 4–2
 - limiting login access with, *Kerberos* 5–4
- BIND/Hesiod query**
 - resolving, *BIND/Hes* 1–7 to 1–8
- BIND/Hesiod secondary server**
 - definition of, *Kerberos* 4–2

boot device
 setting, *Shutdown* 3-34, 3-37, 3-39, 3-42

boot file, BIND/Hes B-3 to B-4
 editing for BIND/Hesiod, *BIND/Hes* A-2 to A-3

booting procedure
 location of, *BasicInstall* 2-1t

bootstrap procedure, RefPages 8-291
 automatic, *RefPages* 8-286

bound-to-host handle, DECrpc 1-10

Bourne shell
See shell
 sh command interpreter, *RefPages* 1-709

box subroutine, RefPages 3-207, 3-528

break command (csh), RefPages 1-126

break command (sh), RefPages 1-610

break command (System V), RefPages 1-619

breaksw command (csh), RefPages 1-126

brk system call, RefPages 2-26

broadcast interface
 used by RPC software, *LocBrok* 3-1

broadcast message, DECrpc 1-5
 sending, *RefPages* 1-755

broker, DECrpc 1-2, *Network_Prog* 6-3

bsc pseudodevice definition
 specifying in the configuration file, *Configfile* 1-16

BSD security level, LAN 2-4
 returning to, *Kerberos* 5-2
 setting up authenticated named, *Kerberos* 4-3

bsearch subroutine, RefPages 3-13
 tsearch subroutine, *RefPages* 3-13

bsf command (mt), RefPages 1-442

bsr command (mt), RefPages 1-442

bstring keyword, RefPages 3-14

bufcache parameter
 specifying in the configuration file, *Configfile* 1-5

buffer, X/OpenTransport 2-10 to 2-19
 flags, *X/OpenTransport* 3-4

buffering
 types of, *RefPages* 3-517

built-in map, NFS 2-14 to 2-15

burst command, RefPages 1-47

burst command (MH), BGB 6-13t

BVP DEBNT/NI interface, RefPages 4-85

bye command (ftp), RefPages 1-249

byte, AdvInstall 2-1
 swapping with PDP-11s, *RefPages* 3-171

byte order
 specifying in the configuration file, *Configfile* 1-8

byte sex, RefPages 3-58

byte string, Network_Prog 2-17

byte type, DECrpc 6-12

byteorder keyword, RefPages 3-372

bzero routine
See byte string

bzero subroutine, RefPages 3-14

C

C compiler
See cc compiler
See VAX C compiler

C flow graph
See cflow command

C library
See libc library

C program
 building cross-reference table, *RefPages* 1-155
 checking, *RefPages* 1-351
 creating error message file for, *RefPages* 1-432
 displaying call graph profile data and, *RefPages* 1-269
 displaying on standard output, *RefPages* 1-56
 formatting, *RefPages* 1-287 to 1-289
 implementing shared constant strings, *RefPages* 1-773
 verifying, *RefPages* 1-354

C shell, Primer 4-1, 7-1
See also csh command interpreter
See also shell
 writing scripts for, *BGB* 9-1 to 9-20

cabs function, RefPages 3-348

cabs subroutine, RefPages 3-349

cache command (mt), RefPages 1-442

cache file, BIND/Hes B-5

caching server, SysNetSetup 3-8, 3-11
 definition of, *BIND/Hes* 1-5

checksum error

SCCS and, *sccs* 3-3

chfn command, RefPages 1-77

See also finger command

invoking, *SysEnviron* 1-6

chgrp command, RefPages 1-78

See also install command

chmod command, Primer 3-11, *RefPages* 1-79 to 1-81

See also install command

chmod system call, RefPages 2-32**chown command, RefPages** 8-45**chown system call, RefPages** 2-35**chpt command, AdvInstall** 2-1, *RefPages* 8-47 to 8-49

changing disk partitions with, *DiskMaint* 3-2 to 3-4

modifying disk partition layout with, *AdvInstall* 2-16

chroot system call, RefPages 2-37**chsh command**

invoking, *SysEnviron* 1-5

chsh program, RefPages 1-82**chtype type, CursesX** 2-1, 2-2**CI adapter, TechSumm** 2-8

specifying in the configuration file, *Configfile* 1-11

circle subroutine, RefPages 3-559**Class A network, LAN** 1-4, 1-11t**Class B network, LAN** 1-4, 1-11t**Class C network, LAN** 1-4, 1-11t**clean command, LocBrok** 2-2**clean command (lpc), RefPages** 8-188**clean command (sccs), RefPages** 1-595, *sccs* 3-6e**cleanup handler, DECrpc** 5-12

in servers, *DECrpc* 5-20e

clear command, RefPages 1-83**clear macro, RefPages** 3-209**clear subroutine, RefPages** 3-528**clearerr subroutine, RefPages** 3-498**clearok subroutine, RefPages** 3-210, 3-528**cleartext password, Kerberos** 1-3**clhrdsf command (mt), RefPages** 1-442**client, DECrpc** 1-3, *Kerberos* 4-2

See also BIND/Hesiod client

client (cont.)

See also diskless client

See also server

See also time client

address of, *X/OpenTransport* 2-5

BIND/Hesiod and, *SysNetSetup* 3-8

DECrpc and, *DECrpc* 1-7

definition of, *ErrorLogger* 1-1, *NFS* 1-1

identification of on server side, *DECrpc* 5-22

Kerberos principal, *Kerberos* 1-1

library routines for, *DECrpc* 2-2 to 2-4

NTP, *SysNetSetup* 3-27, 3-31

server and, *NFS* 1-2

TSP, *SysNetSetup* 3-28, 3-32

Yellow Pages and, *SysNetSetup* 3-12

client host

See client

client kernel

reconfiguring, *DMS* A-3 to A-4

client process

See client/server model

client program

blocking, *NFS* 4-4

client/server model, Network_Prog 2-4

See also connection mode

definition of, *Network_Prog* 2-1

description of, *Network_Prog* 4-1

clock

synchronizing, *RefPages* 2-16

unsynchronized server and client, *NFS* 3-9 to 3-10

clock daemon, RefPages 8-71

crontab file, *RefPages* 5-22

clock daemon table

description of, *SysEnviron* 1-16 to 1-18

clock subroutine, RefPages 3-15**close command (ftp), RefPages** 1-250**close command (TELNET), RefPages** 1-685**close function, nawk** 8-3**close system call, Network_Prog** 2-7, *RefPages* 2-39

See also open system call

See also trace command (general)

See also trace file

closedir subroutine, RefPages 3-27

configuration file (cont.)
 editing for load host, *Ethernet* 2-1
 editing for service node, *Ethernet* 2-6
 editing for terminal emulator, *TermEmul* 1-4
 estimating physical memory, *Configfile* 1-5
 format of, *Configfile* 1-1 to 1-16
 generic template for, *Configfile* 1-2
 location of, *Configfile* 1-1
 specifying definitions in, *Configfile* 1-8 to 1-16

configuration file (error logger), *RefPages* 5-36

configuration file (sendmail)
 editing, *NFS* 3-6
 refreezing, *NFS* 3-6, *uucp* 2-3

configuration file (syslog), *RefPages* 4-9
 building, *RefPages* 8-54, 8-56, 8-76
 format of, *RefPages* 8-363

configuration file (system)
 adding kernel options, *AdvInstall* 2-14, 3-14
 editing, *AdvInstall* 2-15, 3-15

connect command (tftp), *RefPages* 1-694

connect indication, *X/OpenTransport* 2-2, 2-9, 2-15
 processing, *X/OpenTransport* 2-15

connect request
 determining status of, *RefPages* 3-602
 listening for, *RefPages* 3-590

connect system call, *Network_Prog* 2-5, 2-8,
RefPages 2-41
See also shutdown system call

connection, *X/OpenTransport* 1-5
 aborting, *X/OpenTransport* 2-19
 establishing, *X/OpenTransport* 1-4, 2-10, 2-15
 multiple units in, *X/OpenTransport* 2-16
 receiving data through, *RefPages* 3-600

connection mode, *Network_Prog* 4-1 to 4-3
 calling sequence, *Network_Prog* 2-2

connection release, *X/OpenTransport* 1-6

connection stage
See also handshaking stage
 problems with, *uucp* 5-2

connectionless mode
 calling sequence, *Network_Prog* 2-2
 receiving data and, *RefPages* 3-609
 receiving error information, *RefPages* 3-611
 sending data and, *RefPages* 3-620

connectionless-mode, *X/OpenTransport* 1-8 to 1-9
 description of, *X/OpenTransport* 1-3
 when to use, *X/OpenTransport* 3-1

connection-mode, *X/OpenTransport* 1-3 to 1-4
 release connection, *X/OpenTransport* 1-6

console boot default
 updating, *BasicInstall* 3-5

console carrier requester
 establishing remote connection with, *RefPages*
 8-43 to 8-44

console disk, *RefPages* 8-211

console diskette
 building for VAX, *Shutdown* 3-24 to 3-26
 copying, *RefPages* 8-96

console interface, *RefPages* 4-12 to 4-13
See also RL02 console interface
See also RX50 console interface

console media
 updating, *BasicInstall* 3-5

console message, *NFS* A-5

console terminal
 QVSS and, *RefPages* 4-106

constant
 in interfaces with multiple versions, *DECrpc* 7-20

constant declaration, *DECrpc* 4-4, 6-5

constructed type, *DECrpc* 6-12

cont command (dbx), *RefPages* 1-170

cont command (pdx), *RefPages* 1-502

cont subroutine, *RefPages* 3-559

continue command (csh), *RefPages* 1-127

continue command (sh), *RefPages* 1-610

continue command (System V), *RefPages* 1-619

control file, *TermEmul* 1-6

control status register addresses, *BasicInstall* 1-3

controller name
 selecting, *BasicInstall* 3-1 to 3-2

controller number
 selecting, *BasicInstall* 3-1 to 3-2

controller specification
 specifying in the configuration file, *Configfile* 1-11

conv library routine, *InterNat1* 3-1

conversational mode
 invoking, *Shutdown* 2-3

cu command, *RefPages* 1–698

curses

- BSD 4.2 routines in, *CursesX* B–1
- calling, *CursesX* A–1
- naming conventions in, *CursesX* 1–3
- X/Open routines in, *CursesX* B–1

curses library, *RefPages* 3–193

curses package, *RefPages* 3–193, 3–528

- main routines in, *RefPages* 3–193
- subroutine list, *RefPages* 3–528

cursesX.h header file, *CursesX* 2–6

cursor

- moving, *CursesX* 1–4
- optimizing movement, *RefPages* 3–193
- optimizing movement of, *RefPages* 3–528
- optimizing the movement of, *CursesX* 1–1

cuserid subroutine, *RefPages* 3–496

- See also* getlogin subroutine

cut command, *RefPages* 1–153

- See also* paste command
- options, *RefPages* 1–153

CX16 communications interface, *RefPages* 4–22

CXA16 communications interface, *RefPages* 4–20

cxref command, *RefPages* 1–155

CXY08 communications interface, *RefPages* 4–24

D

daemon, *DECrpc* 1–16

- See also* lpq command
- See also* newaliases command
- See also* rmail command
- biod, *NFS* 2–1
- nfsd, *NFS* 2–1, 3–7
- sendmail, *NFS* 3–6

DARPA network

- contacting, *BIND/Hes* 4–3

data

- expedited, *X/OpenTransport* 2–16, 2–19
- transferring, *Network_Prog* 2–6

data base subroutine, *RefPages* 3–530

data conversion

- suppressing, *DECrpc* 6–12

data decryption, *Kerberos* 1–4

- See also* data encryption
- definition of, *Kerberos* 1–3

data directory

- building, *setld* 5–2

data encryption

- See also* data decryption
- crypt command and, *RefPages* 1–114
- ex editor and, *RefPages* 1–221
- Kerberos authentication and, *Kerberos* 1–2 to 1–4
- secret mail and, *RefPages* 1–772
- using the crypt subroutine, *RefPages* 3–18
- vi editor and, *RefPages* 1–745
- view command and, *RefPages* 1–748

Data Encryption Standard

- See* DES

data file

- format of, *setld* 2–3
- receiving, *TermEmul* 1–6
- sending to an IBM system, *TermEmul* 1–5, 1–6, 2–2 to 2–5
- updating, *BIND/Hes* 4–4

data file directory

- default, *BIND/Hes* 3–6

data file entry, *BIND/Hes* 2–3 to 2–10

data link layer

- See* ISO reference model

data memory

- changing protection of, *RefPages* 2–118
- changing size of, *RefPages* 2–26

Data Object Transport Syntax files

- See* DOTS file

data packet

- sending, *TermEmul* 2–4

data segment

- specifying in the configuration file, *Configfile* 1–5

data sink, *RefPages* 4–87

data structure

- hostent, *Network_Prog* 2–13
- ifconf, *Network_Prog* 3–10
- ifreq, *Network_Prog* 3–10, 3–11
- iovec, *Network_Prog* 2–6
- msghdr, *Network_Prog* 2–7
- netent, *Network_Prog* 2–14

DECrpc runtime library, *DECrpc* 1-1,
Network_Prog 6-2

DECrpc software, *DECrpc* 2-1 to 2-9, *LocBrok* 1-1
Best reference, DECrpc
 restarting services of, *LocBrok* 3-1
 terminating services of, *LocBrok* 3-5

DECstation processor
 booting, *BasicInstall* 2-3 to 2-6, *Shutdown* 3-33 to
 3-40
 completing advanced installation on, *AdvInstall*
 4-3

DECsystem processor
 booting, *BasicInstall* 2-3 to 2-8, *Shutdown* 3-40
 completing advanced installation on, *AdvInstall*
 4-3

DECwindows, *TechSumm* 2-2, 2-6 to 2-7

default security level
See BSD security level

define macro, *RefPages* 1-388

def_prog_mode subroutine, *RefPages* 3-213
See also reset_prog_mode subroutine

def_shell_mode subroutine, *RefPages* 3-213
See also reset_shell_mode subroutine

delay_output subroutine, *RefPages* 3-214

delch subroutine, *RefPages* 3-215, 3-528

deledit command (sccs), *RefPages* 1-596, *sccs* 3-5e
 using, *sccs* 2-7

delete command, *LocBrok* 2-2, 2-3

delete command (dbx), *RefPages* 1-170

delete command (ftp), *RefPages* 1-250

delete command (mail), *RefPages* 1-394
See also undelete command (mail)

delete command (pdx), *RefPages* 1-502

delete subroutine, *RefPages* 3-530

deleteln subroutine, *RefPages* 3-216, 3-528

delget command (sccs), *RefPages* 1-596
 using, *sccs* 2-7

DELQA Ethernet interface, *RefPages* 4-105

delta, *sccs* 2-6
 creating, *sccs* 2-2 to 2-5
 definition of, *RefPages* 1-594, *sccs* 1-2
 replacing, *sccs* 2-8

delta command (sccs), *RefPages* 1-182 to 1-184,
 1-595, *sccs* 3-5e

delta command (sccs) (cont.)
See also rmdel command (sccs)
 cdc command (sccs) and, *RefPages* 1-69
 using, *sccs* 2-3

DELUA Ethernet interface, *RefPages* 4-27
See also Address Resolution Protocol

delwin subroutine, *RefPages* 3-217, 3-528

DEQNA Ethernet interface, *RefPages* 4-105

deroff interpreter, *RefPages* 1-185

DES, *Kerberos* 1-3, *RefPages* 3-18
 key to, *Kerberos* 2-2, 4-11

DEUNA Ethernet interface, *RefPages* 4-27
See also Address Resolution Protocol

device
 adding, *SysEnviron* 2-1 to 2-5
 for paging, *RefPages* 2-208, 8-360
 for swapping, *RefPages* 2-208, 8-360

device driver
 adding, *SysEnviron* 2-1
 SCSI, *RefPages* 4-130
 sp, *RefPages* 4-139

device interface, *RefPages* 4-29

device mnemonic
 reference list of, *DiskMaint* A-2t to A-3t
 using with MAKEDEV, *DiskMaint* A-1
 using with the man command, *DiskMaint* A-1

device name
 selecting, *BasicInstall* 3-1 to 3-2

device number
 selecting, *BasicInstall* 3-1 to 3-2

device profile
 definition of, *uucp* 4-2

device special file
 creating, *SysEnviron* 3-1

device special file name, *DMS* 2-5, *RIS* 2-3

devio file
See device interface

df command, *AdvInstall* 2-1
See dumpfs command
 using to check free disk space, *DiskMaint* 2-1

dfa interface
See DFA01 communications interface

DFA01 communications interface, *RefPages* 4-31

disk (cont.)

- reallocating space on, *DiskMaint* 3-1
- reporting statistics for, *RefPages* 1-293, 1-751
- support for, *TechSumm* 2-10
- testing, *RefPages* 8-79 to 8-80

disk drive

- adding, *SysEnviron* 2-4 to 2-5
- testing, *Exercisers* 3-1

disk interface

- See also* *dkio* file
- DIOGETPT and, *RefPages* 4-40e, 4-42e
- ioctl codes, *RefPages* 4-39, 4-41
- restricted, *RefPages* 4-40, 4-43

disk pack

- formatting, *RefPages* 8-97 to 8-99

disk partition, *DiskMaint* 1-1

- Best reference, DiskMaint*
- allocating with *dms*, *DMS* 2-2, 3-1 to 3-2
- changing the parameters of, *DiskMaint* 3-5e
- changing the size of, *DiskMaint* 3-1 to 3-4
- overview of, *DiskMaint* 3-1

disk partition layout

- choosing, *AdvInstall* 3-1
- deciding whether to accept the default, *AdvInstall* 2-15
- modifying, *AdvInstall* 2-16
- specifying default, *AdvInstall* 3-6
- specifying existing, *AdvInstall* 3-3

disk partition table, *DiskMaint* 3-2

- changing, *RefPages* 8-47 to 8-49

disk quota, *DiskMaint* 2-4 to 2-6, *SysNetSetup* 1-16 to 1-17

- checking, *RefPages* 8-280
- displaying, *RefPages* 1-552
- editing, *RefPages* 8-88
- enabling, *RefPages* 2-170, 8-281
- manipulating, *RefPages* 2-143
- setting automatic, *DiskMaint* 2-6n
- summarizing by file system, *RefPages* 8-294

diskless client

- adding, *DMS* 4-1 to 4-3
- booting, *DMS* 4-4, *RefPages* 8-40
- crash process for, *DMS* 5-2
- customizing the setup of, *DMS* A-1 to A-4

diskless client (cont.)

- definition of, *DMS* 1-1
- listing registered clients, *DMS* 4-6
- modifying the registration of, *DMS* 4-4 to 4-5
- preparing to setup, *DMS* 2-7
- registering, *DMS* 2-6
- removing, *DMS* 4-5 to 4-6
- rwod daemon and, *DMS* A-1
- shutting down, *Shutdown* 1-3
- troubleshooting, *DMS* 5-1

diskless server

- configuring, *DMS* 3-1 to 3-5
- maintaining, *DMS* 4-1 to 4-11
- preparing to configure, *DMS* 2-2 to 2-6
- software installation and, *DMS* 2-3

diskless server area

- installing software on, *DMS* 3-2 to 3-5
- maintaining, *DMS* 4-11
- overview of, *DMS* 1-1 to 1-2
- preparing for setup, *DMS* 2-1 to 2-7

disktab file

- format of, *RefPages* 5-30

display command (TELNET), *RefPages* 1-686**display folder**

- pathname for, *RefPages* 1-428

Display PostScript, *TechSumm* 2-7

- See also* printer for

dist command, *RefPages* 1-199**dist command (MH), *BGB* 6-13t****distributed application**

- binding, *DECrpc* 5-1 to 5-3, 5-17
- building and running, *DECrpc* 3-1, 3-6, 5-26
- communication in, *DECrpc* 5-11 to 5-18
- registering objects, *DECrpc* 5-22
- writing, *DECrpc* 3-1 to 3-6

distributed environment

- network setup for, *Kerberos* 4-1
- planning and configuring, *LAN* 2-1 to 2-6

distributed naming service, *LAN* 2-1

- See also* BIND/Hesiod service

- See also* YP service

distributed programming with *DECrpc*,

- Network_Prog* 6-1

dp command (mail), *RefPages* 1–394

dp program, *RefPages* 8–78

dpv data communications interface, *RefPages* 4–55

draino subroutine, *RefPages* 3–218

drand48 subroutine, *RefPages* 3–31

drtest program, *RefPages* 8–79

drum keyword, *RefPages* 4–56

DSA disk

- error report for, *DiskMaint* 4–4 to 4–6
- handling bad blocks on, *DiskMaint* 4–1
- managing, *RefPages* 8–282
- using the radisk utility, *DiskMaint* 4–10

dsxk exerciser, *Exercisers* 3–1 to 3–2, *RefPages* 8–80 to 8–81

dsvconfig script

- use of with nodes database, *Ethernet* 2–4

DTIF

- See the CDA documentation*

dtoc command, *RefPages* 1–203

du command, *RefPages* 1–205

- See also* quot command
- reporting blocks used with, *DiskMaint* 2–2

dump command, *RefPages* 8–82 to 8–83

- See also* dump file
- See also* fstab file
- See also* rdump command
- See also* restore command
- specifying dump frequency with, *SysEnviron* 1–13
- using, *Backup* 1–1, 2–1 to 2–2

dump command (pdx), *RefPages* 1–503

dump device

- specifying in the configuration file, *Configfile* 1–10

dump file, *RefPages* 5–34

- copying, *CrashRec* 1–5e
- examining, *CrashRec* 1–6
- generating, *CrashRec* 1–4 to 1–6
- removing from the file system, *CrashRec* 1–6e

dump keyword, *RefPages* 5–33

dump process, *CrashRec* 1–1

dump program

- See* restore command

dumpdates file

- field reference list, *RefPages* 5–34

dumpdef macro, *RefPages* 1–390

dumpfs command, *RefPages* 8–85

dumprestor file

- format of, *RefPages* 5–33 to 5–35

dup interface, *RefPages* 4–57

dup system call, *RefPages* 2–45

dup2 system call, *RefPages* 2–45

dynamic assignment of ports, *DECrpc* 1–5

dynamic regular expression, *nawk* 3–4

dz interface

- See* DZ11 communications interface
- See* DZ32 communications interface
- See* DZQ11 communications interface
- See* DZV11 communications interface

DZ11 communications interface, *RefPages* 4–58

DZ32 communications interface, *RefPages* 4–58

dzq keyword

- See* DZQ11 communications interface

DZQ11 communications interface, *RefPages* 4–59

- See also* DFA01 communications interface

dzv keyword

- See* DZV11 communications interface

DZV11 communications interface, *RefPages* 4–60

E

ECC scheme

- description of, *DiskMaint* 4–2

echo argument, *RefPages* 1–207

echo command (csh), *RefPages* 1–127

echo command (general), *RefPages* 1–206

echo command (System V), *RefPages* 1–619

echo subroutine, *RefPages* 3–219, 3–528

ecvt library routine, *InterNat1* 3–1

ecvt subroutine, *RefPages* 3–34

ed editor, *RefPages* 1–208 to 1–216

- using, *BGB* 3–2 to 3–14

edata subroutine, *RefPages* 3–37 to 3–38

edauth editor, *RefPages* 8–86

edit command (mail), *RefPages* 1–394

edit command (pdx), *RefPages* 1–503

edit command (sccs), *RefPages* 1–595

- See also* unedit command
- get command and, *sccs* 2–2n

environment variable, *NFS* 2–16, *RefPages* 5–38
 PATH, *Kerberos* 4–8

eof command (mt), *RefPages* 1–442

eotdis command (mt), *RefPages* 1–442

eoten command (mt), *RefPages* 1–442

EPV
 defining for manager, *DECrpc* 5–21
 in manager module, *DECrpc* 7–19
 in server module, *DECrpc* 7–18
 with multiple managers, *DECrpc* 7–26

erand48 subroutine, *RefPages* 3–31

erase macro (curses), *RefPages* 3–221

erase subroutine (curses), *RefPages* 3–528

erase subroutine (plot), *RefPages* 3–559

erasechar subroutine, *RefPages* 3–222

erf function, *RefPages* 3–337

erf subroutine, *RefPages* 3–338

erfc function, *RefPages* 3–337

erfc subroutine, *RefPages* 3–338

ERR, *CursesX* 2–2

ERRLOG file, *uucp* 5–5 to 5–7
See also error message

errlog interface, *RefPages* 4–61

errno error list, *RefPages* 2–46

errno variable, *RefPages* 2–46

error command, *RefPages* 1–218 to 1–220

error correction code scheme
See ECC scheme

error function, *RefPages* 3–338
 System V and, *RefPages* 3–360

error handling, *DECrpc* 5–9 to 5–11, 5–17

error log file
 specifying size limit for, *ErrorLogger* 2–2

error logger
 components of, *ErrorLogger* 1–1 to 1–3
 controlling manually, *ErrorLogger* 3–1 to 3–2
 description of, *ErrorLogger* 2–1 to 2–5
 error message types, *ErrorLogger* 2–3
 events reported by, *ErrorLogger* 4–1
 remote system and, *ErrorLogger* 1–2 to 1–3

error logger file
 space requirements for, *AdvInstall* 2–7

error logging daemon, *RefPages* 8–89
See also elcsd.conf file

error logging daemon (cont.)
See also error logging interface
See also error report formatter

error logging subsystem, *ErrorLogger* 3–1

error message, *NFS* A–1 to A–7, *X/OpenTransport* 2–5, 4–4
See also *Kernel Messages Reference Manual*
 ACU, *uucp* 5–1
 ASSERT, *uucp* 5–6 to 5–7
 causes of in distributed application, *DECrpc* 5–10
 EADDRINUSE, *Network_Prog* 3–4
 EWOULDBLOCK, *Network_Prog* 3–8
 for the terminal emulator, *TermEmul* 2–6, 2–9 to 2–13
 getting system, *RefPages* 3–105
 logging and reporting, *TechSumm* 2–10
 producing, *RefPages* 1–206
 recovering from, *TechSumm* 2–10
 SO_ERROR, *Network_Prog* 2–9
 transport function and, *RefPages* 3–581
 viewing in source code, *RefPages* 1–218 to 1–220

error report, *DiskMaint* 4–3
 disk error messages in, *DiskMaint* 4–5
 for error type, *ErrorLogger* 4–5 to 4–7
 for specific errors, *ErrorLogger* 4–7 to 4–10
 generating, *ErrorLogger* 4–1 to 4–4

error report formatter, *RefPages* 8–383, 8–387
See uerf command

error_\$ library routine, *DECrpc* 2–7

error_c_get_text, *RefPages* 3–399

error_c_text, *RefPages* 3–400

errorlog buffer
 clearing, *ErrorLogger* 3–2

errorlog file, *ErrorLogger* 2–4
 examining, *DiskMaint* 4–3
 logging message to, *ErrorLogger* 3–2
 remote systems and, *ErrorLogger* 2–3
 use of in crash dump, *CrashRec* 1–5

errprint macro, *RefPages* 1–390

escape sequence, *nawk* 2–5

/etc/crontab file
See crontab file

/etc/exports file
See exports file

exp function, *RefPages* 3–339

exp subroutine (math), *RefPages* 3–341 to 3–342

expand command, *RefPages* 1–223
See also fold command

explain program, *RefPages* 1–189

explicit handle
 as operation parameter, *DECrpc* 4–3
 definition of, *DECrpc* 1–11
 in operation declaration, *DECrpc* 4–6, 6–4, 6–10

expm1 function, *RefPages* 3–339

expm1 subroutine (math), *RefPages* 3–341

exponential function, *RefPages* 3–341

exponential notation, *nawk* 1–4

export
 definition of, *NFS* 1–1

export command (sh), *RefPages* 1–610

export command (System V), *RefPages* 1–620

exportfs system call, *RefPages* 2–56

exports file, *NFS* 2–3
See also hosts file
See also netgroup file
 adding entries to, *NFS* 2–2
 entries in, *NFS* 2–3e, 3–7e
 format of, *RefPages* 5–43
 system security and, *NFS* 3–7
 using to restrict access to exported file systems,
SysNetSetup 2–6

expr command, *RefPages* 1–224

expression
 taking arguments as, *RefPages* 1–224
 testing, *BGB* 9–9 to 9–10

extended agent, *LAN* 3–1 to 3–4

Extended SNMP Agent
 MIB organization, *Network_Prog* 7–1 to 7–11

external variable
 uuid_\$nil variable, *DECrpc* 1–3

extract command, *InterNatl* 2–2, 2–8

extract utility, *RefPages* 1–226

ext_srvtab command, *Kerberos* 4–7, 4–12

eyacc compiler, *RefPages* 1–230

F

f77 compiler
See ctags command
See gprof command
See prof command

f77 program, *RefPages* 1–269

fabs subroutine, *RefPages* 3–343 to 3–345

facility
See utility

FALSE, *CursesX* 2–2

false command, *RefPages* 1–709

fault management routine, *DECrpc* 2–7

fchmod system call, *RefPages* 2–32

fchown system call, *RefPages* 2–35

fclose subroutine, *RefPages* 3–497

fcntl system call, *RefPages* 2–57 to 2–62
See also lockf subroutine
 NFS locking and, *NFS* 1–3

fcvt subroutine, *RefPages* 3–34

fdopen subroutine, *RefPages* 3–500

feof subroutine, *RefPages* 3–498

ferror subroutine, *RefPages* 3–498

fetch subroutine, *RefPages* 3–530

fexp function, *RefPages* 3–339

fexpm1 function, *RefPages* 3–339

fflush subroutine, *RefPages* 3–497

ffs subroutine, *RefPages* 3–14

fg command, *Primer* 4–12

fg command (csh), *RefPages* 1–127

fgetc subroutine (standard I/O), *RefPages* 3–504

fgets subroutine, *RefPages* 3–505

fgrep command, *RefPages* 1–274
See also grep utility

fgrep utility, *BGB* 4–2t
See also grep utility

fhandle, *NFS* 4–3
 definition of, *NFS* 3–2

field
 definition of, *nawk* 1–2

field attribute, *DECrpc* 7–1 to 7–3
 in interface definition, *DECrpc* 4–7
 in operation declarations, *DECrpc* 6–10
 in structures, *DECrpc* 6–13

file descriptor (cont.)

- deleting, *RefPages* 2–39
- duplicating, *RefPages* 2–45
- process reference table and, *RefPages* 2–45

file name

- making unique, *RefPages* 3–92
- stripping affixes from, *RefPages* 1–39

file pointer

- moving, *RefPages* 2–106

file system, *RefPages* 8–222

- Best reference, DiskMaint*
- See also NFS file system*
- See also remote file system*
- See also target file system*
- See also UFS file system*
- See also /usr file system*
- backing up, *Backup* 2–1 to 2–8
- changing layout policy of, *RefPages* 8–381
- checking directory consistency of, *RefPages* 8–72
- checking restored, *Backup* 3–10
- checking the consistency of, *RefPages* 8–100 to 8–102, 8–127, *Shutdown* 2–2
- compared to remote file system, *NFS* 3–9 to 3–10
- constructing prototype of, *RefPages* 8–212, 8–216
- copying across the network, *RefPages* 8–288, 8–305
- creating, *RefPages* 8–240, 8–242
- creating and maintaining, *DiskMaint* 1–1 to 1–6
- disk quota for, *DiskMaint* 2–4
- displaying blocks per user in, *RefPages* 8–279
- displaying disk use by, *RefPages* 8–294
- displaying information about, *RefPages* 8–85
- displaying setup of, *DiskMaint* 3–3
- examining, *RefPages* 2–211
- exporting, *RefPages* 2–56
- format of, *RefPages* 5–46
- getting information about, *RefPages* 5–50
- getting information on mounted, *RefPages* 2–79, 3–60
- incremental dumps of, *RefPages* 8–82
- limiting to specific clients, *NFS* 1–2
- listing file names in, *RefPages* 8–236
- maintaining, *RefPages* 3–79
- maintaining consistency in, *CrashRec* 1–2 to 1–4

file system (cont.)

- monitoring use of, *DiskMaint* 2–1
- mounting, *RefPages* 2–112 to 2–114, 8–220
- moving, *DiskMaint* 2–7
- moving files to, *DiskMaint* 2–9
- removing, *RefPages* 2–112 to 2–114
- reorganized, *RefPages* 5–215
- repairing interactively, *RefPages* 8–100 to 8–102
- restoring, *Backup* 3–9 to 3–10
- restoring incremental dumps of, *RefPages* 8–295, 8–313
- reviewing assignments of, *DiskMaint* 3–3
- specifying default partitions for, *AdvInstall* 3–6
- specifying existing partitions for, *AdvInstall* 3–3
- system crashes and, *CrashRec* 1–3
- testing, *Exercisers* 2–1, *RefPages* 8–104
- unmounting, *Shutdown* 2–2
- unmounting manually, *NFS* 2–19, *Shutdown* 1–1
- unmounting restored, *Backup* 3–10
- volume for, *RefPages* 5–46

file system table

- description of, *SysEnviron* 1–12 to 1–15

file system worksheet, *AdvInstall* 2–16**file transfer**

- uucico, *RefPages* 8–395

file transfer program

- See ftp program*

fileno subroutine, *RefPages* 3–498**filter**

- See printer*

find command, *RefPages* 1–232

- See also test command*

finger command, *RefPages* 1–234**fingerd program, *RefPages* 8–93****firstkey subroutine, *RefPages* 3–530****fix command (sccs), *RefPages* 1–596**

- using, *sccs* 2–8

fl keyword, *RefPages* 4–11**flag**

- See also interface flag*
- MSG_DONTROUTE, *Network_Prog* 2–7
- MSG_OOB, *Network_Prog* 2–7, 3–8
- MSG_PEEK, *Network_Prog* 2–7, 3–7

fstab file, *NFS* 2-7, *RefPages* 5-50 to 5-51
See also getfsent subroutine
 bg option and, *NFS* 2-7n, 3-2n, 4-5
 closing, *RefPages* 3-534
 description of, *SysEnviron* 1-12 to 1-15
 disk quotas and, *SysNetSetup* 1-16
 entry in, *NFS* 1-2e, 3-2, 4-5e
 getting entry from, *RefPages* 3-534
 getting file system name from, *RefPages* 3-534
 getting file system type from, *RefPages* 3-534
 getting special file name from, *RefPages* 3-534
 setting, *RefPages* 3-534

fstat system call, *RefPages* 2-204

fsx exerciser, *Exercisers* 2-1, *RefPages* 8-104

fsync system call, *RefPages* 2-67

ftell subroutine (standard I/O), *RefPages* 3-503

ftime subroutine, *RefPages* 3-177

ftok subroutine, *RefPages* 3-48

ftp command, *BIND/Hes* D-1e

ftp program, *RefPages* 1-249 to 1-256
See also rcp command

ftpd server, *RefPages* 8-106 to 8-108
See also ftp program

truncate system call, *RefPages* 2-214

ftw subroutine, *RefPages* 3-49

full backup, *Backup* 1-3

FULLDUMPS option
 specifying in the configuration file, *Configfile* 1-7

fully qualified name
 definition of, *BIND/Hes* 1-3

function, *nawk* 7-1 to 7-4
 calling, *X/OpenTransport* 1-10
 initialization of, *X/OpenTransport* 1-4

function key
 on virtual keypad, *CursesX* 2-3
 return value of, *CursesX* 2-3

fverify command, *RefPages* 8-109

fwrite subroutine, *RefPages* 3-502

G

gamma function, *RefPages* 3-346, 3-347

gamma subroutine, *RefPages* 3-346 to 3-347

gateway
See router

gateway service, *Ethernet* 5-1
 sample program, *Ethernet* C-1

gateways file
 creating, *RefPages* 8-126
 entry format of, *RefPages* 8-310

gcore command, *RefPages* 1-258

gcvt subroutine, *RefPages* 3-34

gencat command, *InterNatl* 2-3 to 2-6
 creating, *InterNatl* 2-1

gencat utility, *RefPages* 1-259

Generic File System Interface, *RefPages* 5-56

generic handle
 definition of, *DECrpc* 1-13
 handle attribute in, *DECrpc* 6-5
 with automatic binding, *DECrpc* 7-10

geographic area
 specifying, *BasicInstall* 3-3

get command (ftp), *RefPages* 1-250

get command (sccs), *RefPages* 1-261 to 1-266,
 1-595, *sccs* 2-2n, 3-3e to 3-4e
See also delta command (sccs)
See also rmdel command (sccs)
See also unget command (sccs)
See also what command (sccs)
 getting latest file version with, *sccs* 2-2

get command (tftp), *RefPages* 1-694

getauth command, *RefPages* 8-116

getauth script, *Kerberos* 5-2

getauthuid subroutine, *RefPages* 3-51

getc subroutine (standard I/O), *RefPages* 3-504
See also unget subroutine

getcap subroutine, *RefPages* 3-528

getch macro, *CursesX* 2-2, *RefPages* 3-224

getch subroutine, *RefPages* 3-528
See also nodelay subroutine

getchar subroutine, *RefPages* 3-504

getcwd subroutine (standard C), *RefPages* 3-53

getstr subroutine, *RefPages* 3–528

getsvc call, *RefPages* 3–69

getsysinfo system call, *RefPages* 2–95

gettable program, *RefPages* 8–119
See also htable program

gettimeofday system call, *RefPages* 2–97
See also adjtime system call
See also stime system call

gettmode subroutine, *RefPages* 3–528

getttyent subroutine, *RefPages* 3–71 to 3–72

getttynam subroutine, *RefPages* 3–71

getty program, *RefPages* 8–120 to 8–121
See also gettytab file

gettytab file
format of, *RefPages* 5–52 to 5–55

getuid system call, *RefPages* 2–98

getw subroutine, *RefPages* 3–504

getwd subroutine, *RefPages* 3–73

getyx macro, *RefPages* 3–228

getyx subroutine, *RefPages* 3–528

gfsi file, *RefPages* 5–56
See also getdirentries system call
See also getmnt system call
See also NFS file
See also UFS file

GKS, *TechSumm* 2–7

GLB, *DECrpc* 1–16 to 1–18, *Network_Prog* 6–4
configuring, *LocBrok* 3–1
definition of, *LocBrok* 1–6
description of, *DECrpc* 1–2
managing information with, *LocBrok* 1–6
off-line host and, *LocBrok* 3–1
registering a server for, *LocBrok* 1–4
starting, *LocBrok* 3–3

GLB Daemon
See Non-Replicatable GLB Daemon

glb.idl file, *DECrpc* 2–8

glob command (csh), *RefPages* 1–128

glob command (ftp), *RefPages* 1–250

Global Location Broker
See GLB

globaldef declaration, *DECrpc* 5–25

gmtime subroutine (standard C), *RefPages* 3–20

goto command (csh), *RefPages* 1–128

gprof command, *RefPages* 1–269 to 1–270
kgmon command and, *RefPages* 8–150

graph
drawing, *RefPages* 1–272

graph command, *RefPages* 1–272 to 1–273
See also plot command
See also spline command

Graphical Kernel System
See GKS

graphics, *TechSumm* 2–7

graphics file
format of, *RefPages* 5–130

graphics filter, *RefPages* 1–519

graphics interface, *RefPages* 3–559

Graphics Subsystem, *RefPages* 4–101

grave accent
substituting command output with, *BGB* 9–7

grep command, *Primer* 4–14, *RefPages* 1–274 to 1–275
See also cut command
See also grep utility
See also look command
See also sed stream editor

grep utility
using, *BGB* 4–1 to 4–4

gripe command (pdx), *RefPages* 1–503

group
displaying memberships in, *RefPages* 1–276

group access list
getting, *RefPages* 2–74
initializing, *RefPages* 3–536
setting, *RefPages* 2–168

group file, *SysNetSetup* 1–3
adding groups to, *RefPages* 8–7
editing for YP, *YP* 2–15
format of, *SysEnviron* 1–6 to 1–7
modifying, *SysEnviron* 1–7 to 1–8
pulling entries from YP, *YP* 3–2
YP and, *YP* 1–5

group file (general), *RefPages* 5–57
getting entry from, *RefPages* 3–56, 3–67

group file (YP), *RefPages* 5–58

history command (csh), *RefPages* 1–128

hk interface

See RK07 disk interface

See RK711 disk interface

hold command (mail), *RefPages* 1–395

home directory

creating, *YP* 2–23

HOME string, *RefPages* 7–3

homogenous environment, *SysNetSetup* 3–5 to 3–6,
3–18

host

See also load host

changing for GLB, *LocBrok* 3–3

definition of, *LAN* 1–1

displaying, *RefPages* 1–279

listing trusted, *RefPages* 5–61

naming, *BIND/Hes* 4–2

obtaining information about, *Network_Prog* 2–13

recovering from crash of, *LocBrok* 3–4

host ID

See also host name

displaying in hexadecimal, *RefPages* 1–278

getting, *RefPages* 2–75

setting, *RefPages* 2–75

setting in hexadecimal, *RefPages* 1–278

host name

See also host ID

DARPA Internet and, *RefPages* 5–60

getting, *RefPages* 2–76

obtaining, *BIND/Hes* 4–5

setting, *RefPages* 1–279, 2–76

host node

definition of, *Ethernet* A–1

functions of, *Ethernet* A–1

host number

definition of, *LAN* 1–2

subnet routing and, *LAN* 1–7

hostent structure

See data structure

hostid command, *RefPages* 1–278

See also gethostid system call

See also sethostid system call

host-initiated connection

program interface, *Ethernet* 4–1

host-initiated connection (cont.)

setting up, *Ethernet* 4–1

host-initiated service

sample program, *Ethernet* B–1

hostname command, *RefPages* 1–279

See also gethostname system call

See also sethostname system call

hosts database

location of, *LAN* 2–2n

hosts directory, *LAN* A–6

hosts file

See also hosts.byaddr file

See also hosts.equiv file

See also hosts.name file

adding a host system to, *LAN* A–2

adding client host name to, *DMS* 2–6, *RIS* 2–3

creating, *RefPages* 8–126

editing for BIND/Hesiod, *BIND/Hes* A–2

editing for YP, *YP* 2–14

format of, *RefPages* 5–60

getting entry from, *RefPages* 3–373

network backup and, *Backup* 4–2

removing a host system from, *LAN* A–2

YP and, *YP* 1–4

–hosts map, *NFS* 2–14

hosts.byaddr file, *YP* 1–4

hosts.byname file, *YP* 1–4

hosts.db file

definition of, *BIND/Hes* A–3

hosts.equiv file, *RefPages* 5–61

See also .rhosts file

description of, *LAN* A–2

editing for YP, *YP* 2–13

referring to YP, *YP* 3–2

.rhosts file and, *RefPages* 5–61

YP and, *YP* 3–2

hp interface, *RefPages* 4–62

HSC, *TechSumm* 2–8

HSC configuration

booting, *Shutdown* 3–10, 3–14

hsearch subroutine, *RefPages* 3–76

ht keyword

See TM03 magnetic tape interface

inet pseudodevice definition

specifying in the configuration file, *Configfile* 1–16

inet_addr subroutine, *RefPages* 3–381

inetd daemon, *Network_Prog* 4–9

inetd server daemon, *RefPages* 8–133

See also *comsat* program

See also *inetd.conf* file

See also *miscd* daemon

inetd.conf file, *LAN* A–3

format of, *RefPages* 5–63

inet_inaof subroutine, *RefPages* 3–381

inet_makeaddr subroutine, *RefPages* 3–381

inet_netof subroutine, *RefPages* 3–381

inet_network subroutine, *RefPages* 3–381

inet_ntoa subroutine, *RefPages* 3–381

info command (*sccs*), *RefPages* 1–595, *sccs* 3–5e

using, *sccs* 2–4

init program, *RefPages* 8–134 to 8–137

See also *reboot* command

diagnostics, *RefPages* 8–137

initgroups subroutine, *RefPages* 3–536

initscr subroutine, *CursesX* 2–2, 2–6, *RefPages* 3–233, 3–528

See also *newterm* subroutine

See also *refresh* macro

initstate subroutine, *RefPages* 3–113

innetgr subroutine, *RefPages* 3–626

inode

clearing, *RefPages* 8–50

definition of, *DiskMaint* 1–2

input directory tree

creating, *setld* 5–1

transferring files with, *setld* 5–1

insch macro, *RefPages* 3–234

insch subroutine, *RefPages* 3–528

INSECURE file, *uucp* 3–6

insertln macro, *RefPages* 3–235

insertln subroutine, *RefPages* 3–528

insque subroutine, *RefPages* 3–77

install command, *RefPages* 1–290

installation

Best reference, *AdvInstall*

completing, *AdvInstall* 4–1 to 4–26

description of, *BasicInstall* 1–1 to 1–2

installation (cont.)

generic configuration file and, *Configfile* 1–2

of software, *TechSumm* 2–7 to 2–8

tasks to be performed after, *AdvInstall* 4–26

install-mh program, *RefPages* 8–138

int function

explanation of, *nawk* 2–12

int type, *DECrpc* 6–11

interface attribute, *DECrpc* 4–2, 6–2

interface configuration

example of obtaining, *Network_Prog* 3–10

interface definition, *Network_Prog* 6–3

definition of, *DECrpc* 1–2

description of, *DECrpc* 6–1 to 6–5

writing, *DECrpc* 4–1 to 4–7

interface definition file

for *DECrpc*, *DECrpc* 2–8

interface flag, *Network_Prog* 3–11

interface mismatch, *DECrpc* 5–10

interface UUID, *LocBrok* 1–1, 2–4

definition of, *DECrpc* 1–3

generation of, *DECrpc* 4–1e

international subroutine

introduction to, *RefPages* 3–277

internationalization

definition of, *InterNatI* 1–1

Internet, *LocBrok* 3–1

specifying networks with, *RefPages* 5–117

specifying protocols with, *RefPages* 5–138, 5–148

Internet address, *LAN* A–2, *RefPages* 4–65

alternate notation for, *LAN* 1–3

common notation for, *LAN* 1–2 to 1–4

definition of, *LAN* 1–2

manipulation routines, *RefPages* 3–381

mapping to Ethernet address, *RefPages* 4–6, 4–85, 4–197

network class and, *LAN* 1–2 to 1–3

obtaining a network number, *LAN* 1–1n

specifying, *RefPages* 3–381

subnet routing and, *LAN* 1–7, 1–11t

Internet Control Message Protocol

See *ICMP*

Internet File Transfer Protocol, *RefPages* 5–138, 5–148, 5–154

jobs command (csh), *RefPages* 1–129
join command, *RefPages* 1–298 to 1–299
jrand48 subroutine, *RefPages* 3–31

K

kdb_destroy utility, *Kerberos* 3–4
kdb_edit utility, *Kerberos* 3–3 to 4–11
kdb_init utility, *Kerberos* 3–3 to 3–5, 4–4
kdb_util utility, *Kerberos* 3–3 to 3–5
KDC, *Kerberos* 3–3
kdestroy utility, *Kerberos* 3–5
Kerberos authentication service, *BIND/Hes* 3–8,
 SysNetSetup 3–1, 3–1, 3–4
 See also the names of specific Kerberos files
 BIND/Hesiod caching server and, *BIND/Hes* 3–10
 BIND/Hesiod primary server and, *BIND/Hes* 3–7
 named daemon and, *LAN* 2–4
 principal, *Kerberos* 1–1
 starting up, *Kerberos* 4–5 to 4–10
kerberos daemon, *Kerberos* 4–3 to 4–4
Kerberos file
 intro.3krb, *RefPages* 3–295
Kerberos routine, *RefPages* 3–299, 8–139 to 8–159
 ext_srvtab, *RefPages* 8–92
Kerberos software
 LAN security and, *Kerberos* 1–1
 libraries for, *Kerberos* 6–1
 network connections with *ULTRIX*, *Kerberos* 1–1,
 3–2
kerberos.log file, *Kerberos* 4–5
kernel, *Configfile* 2–1
 See also client kernel
 building, *Configfile* 1–1, 2–1 to 2–10
 rebuilding or copying, *DMS* 4–8
kernel error logging
 components of, *ErrorLogger* 2–1
kernel image, *CrashRec* 1–5
kernel option
 specifying during installation, *AdvInstall* 3–14
key
 definition of, *Kerberos* 1–2
 DES, *Kerberos* 2–2, 4–11
 distribution center for, *Kerberos* 3–3

key (cont.)
 encryption of, *Kerberos* 1–3
 fetching the master, *Kerberos* 4–10
 for creating a new data encryption algorithm,
 Kerberos 1–2
 master, *Kerberos* 4–10
 of the principal, *Kerberos* 1–3
 session, *Kerberos* 1–4, 2–1
 storage of master, *Kerberos* 4–4
 use of with data encryption algorithm, *Kerberos*
 1–2
key distribution center
 See KDC
key file
 creating, *setld* 5–3
keypad
 virtual, *CursesX* 2–3
keypad subroutine, *CursesX* 2–2, *RefPages* 3–237
kgmon command, *RefPages* 8–150
kill command, *Primer* 4–11
kill command (csh), *RefPages* 1–129
kill command (general), *RefPages* 1–301
 See also kill system call
kill system call, *RefPages* 2–100
 See also pause subroutine
killchar subroutine, *RefPages* 3–238
killpg system call, *RefPages* 2–102
kilobyte, *AdvInstall* 2–1
kit
 manufacturing key file format, *RefPages* 5–168
 master inventory file format, *RefPages* 5–171
 reproducing, *setld* 6–1 to 6–3
 setld format, *RefPages* 1–302
 updating master inventory for, *RefPages* 1–462
kit image
 generating, *setld* 5–6
kitcap file
 building, *setld* 5–7
kits utility, *setld* 2–3
kmem special file, *RefPages* 4–67
Korn shell
 See shell
kprop daemon, *Kerberos* 4–3 to 4–10

leaveok subroutine, *CursesX* 2–8, *RefPages* 3–239, 3–528
len macro, *RefPages* 1–389
length string function, *nawk* 5–4
lex program generator, *RefPages* 1–349
lexical analysis program, *RefPages* 1–349
lfind subroutine, *RefPages* 3–82
libc library
 contents of, *RefPages* 3–1
libm library
 contents of, *RefPages* 3–2
 diagnostics and, *RefPages* 3–4
 introduction, *RefPages* 3–333
library
 for Kerberos software, *Kerberos* 6–1
 maintaining for source files, *sccs* 3–7
library file
 See archive file
library function, *RefPages* 3–1
 miscellaneous, *RefPages* 3–525
library routine, *DECrpc* 2–2 to 2–6
limit command (csh), *RefPages* 1–129
limits.h, *RefPages* 5–82 to 5–84
line
 adding direct-connect, *uucp* 3–7
line command, *RefPages* 1–350
line editor
 ed, *BGB* 3–1
 ex, *BGB* 3–2
 red, *BGB* 3–1
 sed, *BGB* 3–2
line feed
 reversing, *RefPages* 1–85
line printer
 See printer
line printer control program
 See lpc program
line printer daemon
 See lpd daemon
line subroutine (plot), *RefPages* 3–559
linear search routine, *RefPages* 3–82
linemod subroutine, *RefPages* 3–559
LINES, *CursesX* 2–2
link, *RefPages* 1–360
link editor, *RefPages* 5–2
link editor (general)
 See ld command
link editor (VAX FORTRAN)
 See lk command
link system call, *RefPages* 2–103
 See also symlink system call
 See also unlink system call
lint command, *RefPages* 1–354 to 1–355
list command (pdx), *RefPages* 1–503
listen system call, *Network_Prog* 2–5, *RefPages* 2–105
lk command, *RefPages* 1–357 to 1–359
 See also a.out file
 See also ar file
 See also ranlib command
 See also strip command
LLB, *DECrpc* 1–16 to 1–18, *Network_Prog* 6–4
 description of, *DECrpc* 1–2, *LocBrok* 1–1
 functions of, *LocBrok* 1–5
 restarting a host for, *LocBrok* 3–4
 starting, *LocBrok* 3–2
LLB Daemon, *RefPages* 8–172, 8–251
LLB Forwarding agent, *LocBrok* 1–5
llbd daemon, *DECrpc* 1–16, *LocBrok* 1–1
 configuring, *LocBrok* 1–5, 3–1
 starting, *LocBrok* 3–2
llb.idl file, *DECrpc* 2–9
LMF
 See also the *Guide to Software Licensing*
LMF command, *RefPages* 8–173 to 8–178
ln command, *RefPages* 1–360
 See also link system call
 See also lstat system call
 See also readlink system call
 See also symlink system call
ln interface, *RefPages* 4–69
lo keyword, *RefPages* 4–71
load command, *Ethernet* 2–3, *RefPages* 8–186
 See also addnode command
 using, *Ethernet* A–4
load host
 network interface, *Ethernet* 2–2

login time
 showing, *RefPages* 1-764

logname command, *RefPages* 1-365

logout command, *Primer* 1-9, 7-3

logout command (csh), *RefPages* 1-130

long type, *DECrpc* 6-11

longjmp subroutine, *RefPages* 3-123

longname subroutine, *RefPages* 3-240, 3-528

look command, *RefPages* 1-366

lookbib command, *RefPages* 1-367

lookup command, *LocBrok* 2-2
 with unknown host, *LocBrok* 1-4

loop network interface, *RefPages* 4-71

loop pseudodevice definition
 specifying in the configuration file, *Configfile* 1-16

loopback address
 reserved, *LAN* 1-4

lorder command, *RefPages* 1-368
See also ranlib command
See also tsort command

lost+found directory
 creating, *RefPages* 8-213
 unlinked files in, *CrashRec* 1-3

lp command, *RefPages* 1-369

lp interface
See LP11 line printer interface

LP11 line printer interface, *RefPages* 4-72

lpc command
 using, *SysEnviron* 3-13

lpc program, *RefPages* 8-188
See also lpq program

lpd daemon, *RefPages* 8-190
See also lpc program
 description of, *SysEnviron* 3-12
 functions of, *SysEnviron* 3-12

lpq command, *Primer* 2-10, *RefPages* 1-370
 using, *SysEnviron* 3-14

lpq program
 diagnostics, *RefPages* 8-189

lpr command, *Primer* 2-9, *RefPages* 1-372
See also lpd daemon
See also lpq command
See also lprm command
See also print command (general)

lpr command (cont.)
 using, *SysEnviron* 3-13

lprm command, *Primer* 2-10, *RefPages* 1-377 to 1-378
 using, *SysEnviron* 3-14e

lprsetup command, *RefPages* 8-199, *SysNetSetup* 1-12

lpstat command, *RefPages* 1-379

lpx exerciser, *Exercisers* 3-8 to 3-9, *RefPages* 8-200 to 8-201

lrand48 subroutine, *RefPages* 3-31

ls command, *Primer* 2-5, 3-3

ls command (ftp), *RefPages* 1-250

ls command (general), *RefPages* 1-380 to 1-381

lsearch subroutine, *RefPages* 3-82

lseek system call, *RefPages* 2-106

lstat system call, *RefPages* 2-204

L.sys file
See also L-devices file
See also L-dialcodes file
 editing, *uucp* 2-8n, 4-4
 format of, *RefPages* 5-75 to 5-77
 setting up, *uucp* 2-5 to 2-8

lta device
 making, *Ethernet* 2-6

lta pseudodevice definition
 specifying in the configuration file, *Configfile* 1-16

lta pseudoterminal interface, *RefPages* 4-76

ltf command, *Backup* 3-14, *RefPages* 1-382 to 1-385
See also ltf file

ltf file
 format of, *RefPages* 5-87 to 5-94

ltol3 subroutine, *RefPages* 3-79

M

m4 macro processor, *RefPages* 1-387 to 1-388

macdef command (ftp), *RefPages* 1-251

machine command, *RefPages* 1-391

machine parameter
 specifying in the configuration file, *Configfile* 1-3

magic file, *RefPages* 5-95

magic number, *BGB* 9-2

- MASSBUS adapter**
 - specifying in the configuration file, *Configfile* 1-11
- MASSBUS controller**
 - specifying in the configuration file, *Configfile* 1-11
- MASSBUS disk interface**, *RefPages* 4-62 to 4-64
- master directory hierarchy**, *setld* 5-1
- master inventory**
 - generating, *setld* 5-2
- master inventory file**
 - format of, *setld* 2-1, 2-2t
- master key**
 - fetching, *Kerberos* 4-7, 4-12
 - file for, *Kerberos* 4-4, 4-10
 - storing, *Kerberos* 4-9
- master map**
 - See automount map
- master pseudoterminal**
 - definition of, *RefPages* 4-102
- master server**, *Kerberos* 3-1, *SysNetSetup* 3-12 to 3-13
 - See also YP master server
 - definition of, *BIND/Hes* 1-4, *Kerberos* 4-1
 - destroying Kerberos database on, *Kerberos* 3-4
 - within configuration file, *Kerberos* 4-4
- master system**, *Backup* 4-1
- match string function**, *nawk* 5-5
- math library**
 - See libm library
- matherr subroutine**, *RefPages* 3-360 to 3-361
 - error-handling procedures, *RefPages* 3-361t
 - using, *RefPages* 3-360e
- maxdsiz parameter**
 - specifying in the configuration file, *Configfile* 1-5
- maximum processes**
 - specifying in the configuration file, *Configfile* 1-4
- maximum users**
 - specifying in the configuration file, *Configfile* 1-4
- max_is field attribute**, *DECrpc* 7-1
 - description of, *DECrpc* 4-5
 - use of with last_is, *DECrpc* 7-3e
 - using, *DECrpc* 6-7 to 6-10
- maxssiz parameter**
 - specifying in the configuration file, *Configfile* 1-6
- maxtsiz parameter**
 - specifying in the configuration file, *Configfile* 1-5
- maxuprc parameter**
 - specifying in the configuration file, *Configfile* 1-4
- maxusers parameter**
 - specifying in the configuration file, *Configfile* 1-4
- maxuva parameter**
 - specifying in the configuration file, *Configfile* 1-4
- maybe operation attribute**
 - definition of, *DECrpc* 4-6
 - syntax for, *DECrpc* 6-9
- MB data file entry**
 - definition of, *BIND/Hes* 2-5
- mbox file**, *Primer* 5-3
- mdelete command (ftp)**, *RefPages* 1-251
- mdir command (ftp)**, *RefPages* 1-251
- mdtar command**, *RefPages* 1-416 to 1-418
 - See also tar command
 - restoring files with, *Backup* 3-13
 - using, *Backup* 1-2, 2-2
- mdtar file**
 - format of, *RefPages* 5-176
- me macro package**, *RefPages* 7-40
- megabyte**, *AdvInstall* 2-1
- mem memory file**, *RefPages* 4-78
- memccpy subroutine**, *RefPages* 3-88 to 3-89
- memchr subroutine**, *RefPages* 3-88
- memcmp subroutine**, *RefPages* 3-88
- memcpy subroutine**, *RefPages* 3-88
- memmove subroutine**, *RefPages* 3-88
- memory**
 - allocating, *RefPages* 3-84 to 3-86, 3-185, 3-555, 3-572
 - freeing, *RefPages* 3-583
 - operations on, *RefPages* 3-88
 - reporting statistics for, *RefPages* 1-750
 - shared, *RefPages* 3-86
 - testing, *Exercisers* 2-2 to 2-3, *RefPages* 8-208
- memory area**
 - definition of, *RefPages* 3-88
- memory keyword**, *RefPages* 3-88
- memory resource**
 - managing, *X/OpenTransport* 4-3

mode

asynchronous, *X/OpenTransport* 4-4

changing, *RefPages* 1-79

synchronous, *X/OpenTransport* 4-4

mode command (ftp), *RefPages* 1-251

mode command (TELNET), *RefPages* 1-685

mode command (tftp), *RefPages* 1-694

modem, *uucp* 3-6 to 3-7

autodial, *RefPages* 5-10

controlling, *RefPages* 4-186

setting up, *RefPages* 4-187e

tip utility and, *uucp* 1-3n, 2-1n

uucp utility and, *uucp* 2-2n

modem line

configuring manually, *uucp* 2-4

modf subroutine, *RefPages* 3-46

moncontrol subroutine, *RefPages* 3-95

monitor subroutine, *RefPages* 3-95

See gprof command

See prof command

monochrome video subsystem, *RefPages* 4-137

monstartup subroutine, *RefPages* 3-95

MOP, *RefPages* 8-218

installing on a server, *DMS* 2-1, *RIS* 2-2

mop_dumpload loader

prerequisites for load request, *RefPages* 8-218

mop_mom command, *RefPages* 8-218

See also load command

more command, *Primer* 2-9, *RefPages* 1-436 to

1-438

motd file, *SysEnviron* 1-18

mount command, *RefPages* 8-226

fstab file and, *NFS* A-1

mount command (general), *RefPages* 8-220 to

8-221

See also fstab file

See also mount command (NFS)

See also ufs_mount command

mounting a file system with, *DiskMaint* 1-4

mount command (NFS), *RefPages* 8-222 to 8-224

See also portmap daemon

See also rmtab file

See also ypserv daemon

failure of, *NFS* 4-3

mount point

definition of, *DMS* 2-5, *RIS* 2-3

mount system call (general), *RefPages* 2-112 to 2-114

See also mount command (general)

mount system call (NFS), *RefPages* 2-115 to 2-117

mountd daemon, *RefPages* 8-222, 8-228

See also exports file

See also showmount command

starting, *NFS* 2-4

move macro, *CursesX* 1-3

move macro (curses), *RefPages* 3-242

move subroutine (curses), *RefPages* 3-528

move subroutine (plot), *RefPages* 3-559

mprotect system call, *RefPages* 2-118

mput command (ftp), *RefPages* 1-251

mqueue directory, *LAN* A-6

MR data file entry

definition of, *BIND/Hes* 2-6

mrnd48 subroutine, *RefPages* 3-31

ms macro package, *RefPages* 7-43 to 7-45

MSCP disk controller

specifying in the configuration file, *Configfile* 1-12e

MSCP disk interface, *RefPages* 4-108 to 4-115

MS-DOS operating system, *Primer* C-1

msgcheck command (MH), *BGB* 6-13t

msgchk command, *RefPages* 1-439

msgctl system call, *RefPages* 2-120

MSG_DONROUTE flag, *Network_Prog* 2-7

msgget system call, *RefPages* 2-122

See also ftok subroutine

See also msgsnd system call

msghdr structure

See data structure

MSG_OOB flag, *Network_Prog* 2-7, 3-8

msgop keyword, *RefPages* 2-124 to 2-126

MSG_PEEK flag, *Network_Prog* 2-7, 3-7

msgrcv system call

See msgctl system call

See msgget system call

msgsnd system call, *RefPages* 2-124 to 2-126

msh command, *RefPages* 1-440

nbase.idl file, *DECrpc* 2-8

NBS data encryption standard, *RefPages* 3-18

nbuf keyword, *RefPages* 4-83

ncastat.idl file, *DECrpc* 2-8

ncheck command, *RefPages* 8-236
See also fsck command

ncp program, *Ethernet* A-2

NCS
definition of, *DECrpc* 1-1

NCS commands and library routines, *RefPages* 3-387

NDR
scalar types in, *DECrpc* 5-1

ndr_\$ type, *DECrpc* 5-1

netbuf structure, *XIOpenTransport* 2-9

netent structure
See data structure

netgroup database, *SysNetSetup* 3-6t

netgroup file
See also getnetgrent subroutine
See also innetrgr subroutine
format of, *RefPages* 5-114, *YP* 3-5
getting member entry from, *RefPages* 3-626
YP and, *YP* 1-5, 2-13, 3-5

netgroup.byhost, *YP* 3-5

netgroup.byuser, *YP* 3-5

netgroups
definition of, *YP* 3-5

netmask
Class A network and, *LAN* 1-10
Class B network and, *LAN* 1-11
common values in, *LAN* 1-9t
definition of, *LAN* 1-8
subnet routing and, *LAN* 1-7, 1-11t

.netrc file
format of, *RefPages* 5-116

netsetup command, *RefPages* 8-237, *SysNetSetup* 2-2, 2-6

netstat command, *LAN* C-1, *RefPages* 1-459 to 1-460
See also iostat command
See also vmstat command

network, *RefPages* 1-459
See also DECNET option

network (cont.)
See also Ethernet network
See also LAN
See also TCP/IP network
See also uucp utility
definition of, *Network_Prog* 1-1
lock daemon and, *RefPages* 8-187
obtaining information about, *Network_Prog* 2-14
transparency of, *TechSumm* 2-2

network address, *DECrpc* 1-4
authentication of, *Kerberos* 2-3

network architecture
definition of, *Network_Prog* 1-1

network byte order
converting, *Network_Prog* 2-16 to 2-17

network class, *LAN* 1-11t
binary and decimal range of, *LAN* 1-3t
bit positions and decimal ranges for, *LAN* 1-4f

Network Computing System
See NCS

network configuration
retrieving information about, *Network_Prog* 3-10

network connection
between Kerberos and ULTRIX, *Kerberos* 3-2, 6-1

network controller, *LAN* 1-2t

Network Data Representation
See NDR

network entity
defining site specific, *LAN* 3-1
Extended Agents and site specific, *LAN* 3-1

network facility, *DMS* 2-2, *RefPages* 4-2 to 4-5
See also DELUA Ethernet interface
See also DEUNA Ethernet interface
See also scs interface

Network File System
See NFS

network file transfer, *RefPages* 8-395

network group
defining, *RefPages* 5-114

Network Information Center
See NIC

network interface, *LAN* 1-2t, *RefPages* 4-4 to 4-5
See also XTI

NFS lock, *NFS* 1–3
Best reference, NFS
programming with, *NFS* 3–2 to 3–3
recovering, *NFS* 3–4
turning off, *RefPages* 8–246
turning on, *RefPages* 8–246

NFS mount request server, *RefPages* 8–228

NFS option
specifying in the configuration file, *Configfile* 1–8

NFS protocol
remote hosts and, *RefPages* 5–147

nfs pseudodevice definition
specifying in the configuration file, *Configfile* 1–16

NFS server
recovering, *NFS* 4–4

nfs_biod system call, *RefPages* 2–127

nfsd daemon, *RefPages* 8–244
See also nfs_svc system call
See also rpc file
invoking, *RefPages* 2–127
starting, *NFS* 2–4

nfsportmon command, *RefPages* 8–245

nfssetlock command, *RefPages* 8–246

nfssetup command, *RefPages* 8–247
diskless client and, *DMS* 2–2

nfsstat command, *RefPages* 8–248

nfs_svc system call, *RefPages* 2–127

ni interface
See BVP DEBNT/NI interface

NIC
address of, *BIND/Hes* 1–4
BIND domain name and, *SysNetSetup* 3–4, 3–8
obtaining a network number from, *SysNetSetup* 2–2
phone number of, *BIND/Hes* 1–4

NIC standard host table
getting, *RefPages* 8–119

NIC standard host tables
converting, *RefPages* 8–126

NIC whois service
See whois service

nice command (csh), *RefPages* 1–130

nice command (sh), *RefPages* 1–465

nice subroutine, *RefPages* 3–99

NIDL, *Network_Prog* 6–3
definition of, *DECrpc* 1–2
interface definition in, *DECrpc* 4–1

NIDL compiler, *DECrpc* 1–2, 2–2, *Network_Prog* 6–3, *RefPages* 1–466

nl command, *RefPages* 1–469

nl macro, *RefPages* 3–249

nl subroutine, *RefPages* 3–528

nl_fprintf subroutine, *RefPages* 3–284

nl_fscanf subroutine, *RefPages* 3–286

nlist subroutine, *RefPages* 3–100 to 3–101

nl_langinfo library routine, *InterNatl* 3–1

nl_langinfo subroutine, *RefPages* 3–282

nl_printf subroutine, *RefPages* 3–284

NLS environment
variables, *RefPages* 5–38

nl_scanf subroutine, *RefPages* 3–286

nl_sprintf subroutine, *RefPages* 3–284

nl_sscanf subroutine, *RefPages* 3–286

nl_types files, *RefPages* 5–119

nm command, *RefPages* 1–473

nmap command (ftp), *RefPages* 1–251

NMS, *Network_Prog* 7–1
definition of, *LAN* 3–1
requesting information from agent, *LAN* 3–2

no wait lock
See lock

nocache command (mt), *RefPages* 1–443

nocbreak subroutine, *RefPages* 3–208

nocrmode subroutine, *RefPages* 3–528

node
changing data base entry for, *RefPages* 8–5 to 8–6
displaying data base entry for, *RefPages* 8–118
downline loading, *RefPages* 8–186
host node (Ethernet), *Ethernet* A–1
removing from data base, *RefPages* 8–292
target node, *Ethernet* A–1
triggering downline load request for, *RefPages* 8–378

nodelay subroutine, *RefPages* 3–250

nodes database, *Ethernet* 2–2

noecho subroutine, *RefPages* 3–219, 3–528

nohup command (csh), *RefPages* 1–130

opaque port, *LocBrok* 1–5
 definition of, *DECrpc* 1–5

open array, *DECrpc* 6–7 to 6–8, 7–1
 use of with *last_is* and *max_is*, *DECrpc* 7–3e

open command (ftp), *RefPages* 1–252

open command (TELNET), *RefPages* 1–685

open system
 definition of, *Network_Prog* 1–3

open system call, *RefPages* 2–128
 See also close system call
 See also trace command (general)
 See also trace file

opendir subroutine, *RefPages* 3–27 to 3–28

openlog subroutine, *RefPages* 3–175

openpl subroutine, *RefPages* 3–559
 See also plot command
 See also plot file

operation, *DECrpc* 1–2
 adding to interfaces compatibly, *DECrpc* 5–10
 calling semantics for, *DECrpc* 6–8
 changing with interface versions, *DECrpc* 7–19
 declarators of, *DECrpc* 6–9
 parameters for, *DECrpc* 6–9

operation attribute
 description of, *DECrpc* 4–6
 syntax for, *DECrpc* 6–8

operation declaration, *DECrpc* 4–5, 6–10e
 syntax for, *DECrpc* 6–8

operation order, *nawk* 2–2, A–1

operator, *nawk* 2–8

opser utility, *RefPages* 8–261
 aborting, *Backup* 4–12
 escaping to command shell, *Backup* 4–6
 halting slave system, *Backup* 4–12
 halting the local processor, *Backup* 2–7
 help menu for, *Backup* 2–4e, 4–4e
 network options help menu, *Backup* 4–5e
 performing local backups with, *Backup* 2–3 to 2–8
 performing remote backups with, *Backup* 4–3 to 4–12
 restarting multiuser mode, *Backup* 2–7
 using, *Backup* 1–2

ord string function, *nawk* 5–6

orderly release
 acknowledging receipt of, *RefPages* 3–607

origin data file entry
 definition of, *BIND/Hes* 2–3

orphan process
 definition of, *RefPages* 4–186

OSI architecture
 See ISO reference model

otalk program, *RefPages* 1–674

out parameter attribute, *DECrpc* 6–10

out-of-band data, *Network_Prog* 3–6 to 3–7

output directory
 building, *setld* 5–6

overlay subroutine, *RefPages* 3–251, 3–528

overwrite subroutine, *RefPages* 3–251, 3–528

P

pac command, *RefPages* 8–262
 using, *SysEnviron* 3–14, 5–3

pack command, *RefPages* 1–492

packed array, *DECrpc* 7–8

packet
 broadcasting, *Network_Prog* 3–9

packet filter, *Network_Prog* 8–1
 See also *The Packet Filter: An Efficient Mechanism for User-Level Network Code*
 configuration parameters for, *RefPages* 8–263
 pfconfig command and, *RefPages* 8–263
 pfpopen subroutine, *RefPages* 3–106
 pfstat command and, *RefPages* 8–265

packetfilter, *RefPages* 4–88

packf command, *RefPages* 1–494

packf command (MH), *BGB* 6–13t

PAD
 See MICOM PAD

page
 reporting statistics for, *RefPages* 1–751

page command, *RefPages* 1–436

page size
 displaying, *RefPages* 1–495
 getting, *RefPages* 2–81

pagesize command, *RefPages* 1–495

password (cont.)

- hiding for master database, *Kerberos* 3–5
- in cleartext, *Kerberos* 1–3
- logging into remote system without, *YP* 3–2
- of the principal, *Kerberos* 1–3
- reading, *RefPages* 3–63
- setting, *SysNetSetup* 3–36
- updating in YP map, *RefPages* 3–632
- YP and, *YP* 1–5

paste command, *RefPages* 1–499 to 1–500

path, *Primer* 3–2 to 3–6

PATH environment variable, *Kerberos* 4–8

PATH string, *RefPages* 7–3

pathconf subroutine, *RefPages* 3–102

pattern

- matching, *BGB* 4–1, 4–4, *RefPages* 1–608

pattern file, *BGB* 4–3, *RefPages* 5–126

pause subroutine, *RefPages* 3–104

PC

- integration with, *TechSumm* 2–2

pc compiler

- See* gprof command
- See* pdx debugger
- See* pmerge command
- See* pxref program

pclose subroutine, *RefPages* 3–107

pdx debugger, *RefPages* 1–501 to 1–504

- See also* pi code translator

permission

- for files, *Primer* 3–10

perror subroutine (standard C), *RefPages* 3–105

personal computer

- See* PC

pfconfig command, *RefPages* 8–263 to 8–264

pfm_ \$ library routine, *DECrpc* 2–7

pfopen subroutine, *RefPages* 3–106

pfstat command, *RefPages* 8–265

pg command, *RefPages* 1–505

pgm_ \$ library routine, *DECrpc* 2–7

Phase IV load host, *Ethernet* 2–1

phones file

- format of, *RefPages* 5–129

physical main memory image, *RefPages* 4–78

physical memory

- specifying in the configuration file, *Configfile* 1–5

physmem parameter

- specifying in the configuration file, *Configfile* 1–5

pi code translator, *RefPages* 1–509 to 1–510

- See also* pix command

- See also* pmerge command

- See also* px command

pi command (pdx), *RefPages* 1–503

pick command, *RefPages* 1–511

pick command (MH), *BGB* 6–13t

ping command, *RefPages* 8–268

pipe system call, *RefPages* 2–133

pipeline, *BGB* 1–1, *Primer* 4–14

- creating, *RefPages* 2–133

- definition of, *RefPages* 1–606, 1–613

- lists of, *RefPages* 1–606, 1–613

- redirecting print output to, *nawk* 8–3

pix command, *RefPages* 1–515

- See also* px command

placeholder, *nawk* 2–4

plock system call, *RefPages* 2–135

plot command, *RefPages* 1–519

- See also* graphics file

- See also* plot keyword

- See also* prof command

- See also* spline command

- See also* term command

plot keyword, *RefPages* 3–559, 5–130

plotter

- getting statistics for, *RefPages* 8–262

pmerge command, *RefPages* 1–521

pnoutrefresh subroutine, *RefPages* 3–252

point subroutine, *RefPages* 3–559

pointer, *DECrpc* 4–7, 6–7 to 6–14

pointer operator, *DECrpc* 6–10

popd command (csh), *RefPages* 1–130

popen subroutine, *RefPages* 3–107

port, *DECrpc* 1–4

- See also* privileged port

- attribute, *DECrpc* 6–3

- definition of types, *DECrpc* 1–5

- dynamic assignment of, *DECrpc* 1–5

- monitoring, *NFS* 3–7

printer (cont.)

control and monitoring, *TechSumm* 2-2 to 2-3, 2-8
filters for, *TechSumm* 2-2
folding text lines for, *RefPages* 1-237
getting statistics for, *RefPages* 8-262
PostScript, *TechSumm* 2-2
reporting use of, *SysEnviron* 3-14, 5-3
setting up, *RefPages* 8-199
setting up on terminal servers, *Ethernet* 3-1
specifying the line width of, *Configfile* 1-14
status information for, *RefPages* 1-379
testing, *Exercisers* 3-8, *RefPages* 8-200
unfiltered access to, *TechSumm* 2-2

printer capability database

setting up, *SysEnviron* 3-2

printer hardware characteristic, Ethernet 3-1**printer queue**

displaying, *RefPages* 1-370

printer spool directory, Ethernet 3-4**PRINTER string, RefPages** 7-3**printer symbol**

specifying, *SysEnviron* 3-3 to 3-12

printf action, awk 2-3**printf function, RefPages** 3-506**printf library routine, InterNatl** 3-1**printf subroutine, RefPages** 3-288

See also *printw* subroutine

See also *vprintf* subroutine

conversion specification list, *RefPages* 3-506

printing date with, *RefPages* 3-509

restrictions, *RefPages* 3-508

System V and, *RefPages* 3-289, 3-509

printw subroutine, RefPages 3-253, 3-528**priority**

setting, *RefPages* 1-465, 3-99

private MIB, LAN 3-1, 3-2**privileged port**

other operating systems and, *NFS* 3-7n

prmail command, RefPages 1-527**process**

changing the priority of, *SysEnviron* 5-1
changing the priority of running, *RefPages* 8-293
controlling resource consumption by, *RefPages*
2-87

process (cont.)

creating, *RefPages* 2-66, 2-223
displaying the status of, *RefPages* 1-540, 1-752,
1-764
getting core image, *RefPages* 1-258
getting information about resource use by,
RefPages 2-89
getting process group of, *RefPages* 2-83
getting resource accounting, *RefPages* 3-190
getting time-accounting information, *RefPages*
3-178
initializing control of, *RefPages* 8-134 to 8-136
initiating I/O in, *RefPages* 3-107
limiting resource consumption by, *RefPages* 3-188
reporting statistics for, *RefPages* 1-750
requesting priority for, *TermEmul* 2-4
scheduling priority and, *RefPages* 2-85
setting limits on, *RefPages* 3-182
signaling, *RefPages* 2-100
suspending, *RefPages* 1-631, 3-104, 3-146
suspending transmission of, *TermEmul* 2-4
terminating, *RefPages* 1-301, 2-55
terminating after flushing pending output, *RefPages*
3-43
terminating with core dump, *RefPages* 3-6
tracing, *RefPages* 2-141 to 2-142
waiting for termination of, *RefPages* 2-225

process accounting
controlling, *SysEnviron* 5-2 to 5-3**process group**

associating with terminal, *RefPages* 4-181
definition of, *RefPages* 2-83
setting, *RefPages* 2-169, 3-127
signaling, *RefPages* 2-102

process ID

getting, *RefPages* 1-540, 2-84

process number, Network_Prog 3-6**process reference table**

getting size from, *RefPages* 2-72

processor

defining in the configuration file, *Configfile* 1-3
halting, *RefPages* 8-123, 8-124
initializing, *CrashRec* 2-3 to 2-4

ptx command, *RefPages* 1–545 to 1–546

pty interface, *RefPages* 4–102

pty pseudodevice definition
specifying in the configuration file, *Configfile* 1–16

public network
registering with, *BIND/Hes* 4–3 to 4–4

pushd command (csh), *RefPages* 1–130

put command (ftp), *RefPages* 1–253

put command (tftp), *RefPages* 1–695

putc subroutine, *RefPages* 3–510

putchar subroutine, *RefPages* 3–510

putenv subroutine, *RefPages* 3–109

putp subroutine, *RefPages* 3–254

putpwent subroutine, *RefPages* 3–110

puts subroutine, *RefPages* 3–511

putw subroutine, *RefPages* 3–510

pwd command, *Primer* 3–2

pwd command (general), *RefPages* 1–547
See also dirs command (csh)

pwd command (nfs), *RefPages* 1–253

pwd command (System V), *RefPages* 1–620

px command, *RefPages* 1–548
See also pi code translator
See also pix command

pxp command, *RefPages* 1–549 to 1–550

pxref program, *RefPages* 1–551

Q

Q-bus adapter
specifying in the configuration file, *Configfile* 1–11

Q-bus virtual memory image, *RefPages* 4–68

qd interface
See VCB03 video subsystem

QDSS
See VCB02 video subsystem

qe interface
See DELQA Ethernet interface
See DEQNA Ethernet interface

qsort subroutine (standard C), *RefPages* 3–111

queue
listing, *Primer* 2–10
removing elements from, *RefPages* 3–77

quit command, *LocBrok* 2–2

quit command (lpc), *RefPages* 8–188

quit command (mail), *RefPages* 1–395

quit command (nfs), *RefPages* 1–253

quit command (pdx), *RefPages* 1–503

quit command (TELNET), *RefPages* 1–685

quit command (tftp), *RefPages* 1–695

quot command, *DiskMaint* 2–3, *RefPages* 8–279

quota
See disk quota

quota command, *DiskMaint* 2–6, *RefPages* 1–552

QUOTA option
specifying in the configuration file, *Configfile* 1–7

quota system call, *RefPages* 2–143
See also quotacheck command

quotacheck command, *DiskMaint* 2–6, *RefPages* 8–280, *SysNetSetup* 1–17
See also edquota editor
See also fstab file
See also quota system call
See also quotaon command
See also repquota command
See also setquota system call

quotaoff command, *DiskMaint* 2–6, *RefPages* 8–281

quotaon command, *DiskMaint* 2–6, *RefPages* 8–281

quotas file, *SysNetSetup* 1–17
quotacheck command and, *RefPages* 8–280

quote command (ftp), *RefPages* 1–253

qv interface
See VCB01 video subsystem

QVSS
See VCB01 video subsystem

R

ra interface
See MSCP disk interface

RA60 disk media
making, *setld* 5–7

Radial Serial Protocol
See RSP

radisk utility, *RefPages* 8–282
using, *DiskMaint* 4–9 to 4–11

reboot command, *RefPages* 8–291
See also rc command

reboot system call, *RefPages* 2–149

rebooting procedure, *BasicInstall* 3–3, 3–6

re_comp subroutine, *RefPages* 3–115

record
definition of, *nawk* 1–2, *RefPages* 5–88

recovery
during a system crash, *CrashRec* 2–1 to 2–5

recursion, *nawk* 7–3

recv command (ftp), *RefPages* 1–253

recv system call, *Network_Prog* 2–6, *RefPages* 2–151
See also send system call

recvfrom system call, *Network_Prog* 2–8, *RefPages* 2–151

recvmsg system call, *Network_Prog* 2–7 to 2–9, *RefPages* 2–151

red editor, *BGB* 3–1, *RefPages* 1–208

re_exec subroutine, *RefPages* 3–115

refer preprocessor, *RefPages* 1–563 to 1–564
See also indxbib command
See also lookbib command

reference page
See formatting
accessing on line, *RefPages* 1–407
formatting, *RefPages* 7–16, 7–24, 7–32
printing, *RefPages* 1–407

refile command, *RefPages* 1–566

refile command (MH), *BGB* 6–13t

refresh macro, *CursesX* 1–3, 2–8, *RefPages* 3–256

refresh subroutine, *RefPages* 3–528

regex keyword, *RefPages* 3–115

register command, *LocBrok* 2–2

regular expression, *BGB* 2–1 to 2–9, 4–1
dynamic, *nawk* 3–4
rules for forming, *BGB* 2–2t

regular expression handler, *RefPages* 3–115

rehash command (csh), *RefPages* 1–131

relational data base operator, *RefPages* 1–298

relational operator
in the shell, *BGB* 9–10

relative path
explanation of, *Primer* 3–5

relocation bit
removing, *RefPages* 1–654

reminder service, *RefPages* 1–348
creating a calendar, *RefPages* 1–50

remnode command, *RefPages* 8–292
See also addnode command

remote directory
See remote file system

remote distribution service, *TechSumm* 2–9

remote error logging, *ErrorLogger* 2–2

remote file
See also tip command
format of, *RefPages* 5–141
locking, *NFS* 3–3
restoring, *Backup* 5–1 to 5–8

remote file system
backing up, *Backup* 4–1 to 4–12
displaying mounted, *NFS* 3–2
hard-mounted, *NFS* 4–1
interrupt option and, *NFS* 3–2
mounting, *NFS* 3–1 to 3–2, 4–3
soft-mounted, *NFS* 4–1
troubleshooting slow access, *NFS* 4–5

remote host
format file for, *RefPages* 5–141
logging into, *LAN* A–6

remote installation environment
overview of, *RIS* 1–1 to 1–3
preparing for the setup of, *RIS* 2–1 to 2–4

remote installation services client
adding, *RIS* 3–3 to 3–5
definition of, *RIS* 1–1
modifying the registration of, *RIS* 3–6
removing, *RIS* 3–5

remote installation services server
maintaining, *RIS* 3–3 to 3–8
preparing to configure, *RIS* 2–1 to 2–4

remote installation services server area
installing software on, *RIS* 3–1 to 3–3

remote installation services utility
See ris utility

remote login server
See rlogind server

rexmt command (tftp), *RefPages* 1–695

RFC, *Network_Prog* 7–1

RFC 822

- address parsing of by MH system, *RefPages* 8–10
- date parsing and, *RefPages* 8–78

.rhosts file, *RefPages* 5–145, *YP* 3–2

- See also* hosts.equiv file
- creating, *LAN* A–1
- network backup and, *Backup* 4–2
- remote system superuser and, *LAN* A–2n
- restricting access to, *YP* 2–14

rindex subroutine (standard C), *RefPages* 3–147

rint subroutine, *RefPages* 3–345

ris database

- adding multiple clients to, *RIS* 3–7
- removing multiple clients from, *RIS* 3–8

ris directory

- space requirements for, *AdvInstall* 2–8

ris utility, *RefPages* 8–301

- Best reference*, *RIS*
- database for, *RIS* 3–7
- definition of, *RIS* 1–2
- using from the command line, *RIS* 3–6 to 3–7

RISC processor

- forcing a crash dump on, *CrashRec* 2–4 to 2–5

risn.mips area

- showing products in, *RIS* 3–5

.rjed file

- definition of, *TermEmul* 1–4

rjelog file

- definition of, *TermEmul* 1–4
- monitoring, *TermEmul* 2–8

rk interface

- See* RK07 disk interface
- See* RK711 disk interface

RK07 disk

- formatting, *RefPages* 8–99
- pseudodisk partitions on, *RefPages* 4–119

RK07 disk interface, *RefPages* 4–119

RK711 disk interface, *RefPages* 4–119

rl interface

- See* RL02 disk interface
- See* RL211 disk interface

RL02 console interface, *RefPages* 4–15

RL02 disk

- pseudodisk partitions on, *RefPages* 4–121

RL02 disk interface, *RefPages* 4–116, 4–121

RL211 disk interface, *RefPages* 4–121

rlogin command, *RefPages* 1–574

- See also* dgate command
- See also* rcp command
- See also* rlogind server
- See also* tip command

rlogind server, *RefPages* 8–303

rm command, *Primer* 2–10, 3–13, *RefPages* 1–580 to 1–581

RM0X disk

- formatting, *RefPages* 8–99

RM03 disk

- partitions on, *RefPages* 4–62

RM03 disk interface, *RefPages* 4–62

RM05 disk

- partitions on, *RefPages* 4–62

RM05 disk interface, *RefPages* 4–62

RM80 disk

- partitions on, *RefPages* 4–63

RM80 disk interface, *RefPages* 4–62

rmail command, *RefPages* 1–578

rmauth command, *RefPages* 8–116

rmdel command (sccs), *RefPages* 1–579

- using, *sccs* 2–6

rmdir command, *Primer* 3–13

rmdir command (ftp), *RefPages* 1–253

rmdir command (general), *RefPages* 1–576

rmdir system call, *RefPages* 2–155

rmf command, *RefPages* 1–580

rmf command (MH), *BGB* 6–13t

rmm command, *RefPages* 1–581

rmm command (MH), *BGB* 6–13t

rmt program, *RefPages* 8–305 to 8–306

- See also* rcmd subroutine
- See also* rexec subroutine

rmtab file, *RefPages* 5–147

roffbib text processor, *RefPages* 1–582

root

- See* remote superuser

RSP

VAX-11/750 and, *RefPages* 4-17

RT-11 format device

archiving, *RefPages* 8-13 to 8-17

rule

definition of, *nawk* 1-2

syntax of, *nawk* 1-3

run command (dbx), *RefPages* 1-169

run command (pdx), *RefPages* 1-501

run queue

showing average, *RefPages* 1-764

runique command (ftp), *RefPages* 1-253

runtime library, *DECrpc* 1-3

ruptime command, *RefPages* 1-586

rwhod server and, *RefPages* 8-320

ruserok subroutine, *RefPages* 3-562

rwalld daemon, *RefPages* 8-319

starting, *NFS* 2-7

rwho command

rwhod server and, *RefPages* 8-320

rwho directory

contents of, *LAN A-6*

rwho service

description of, *Network_Prog* 4-5 to 4-7

rwhod server, *RefPages* 8-320

rx keyword

See *RX33* disk interface

RX01 console interface, *RefPages* 4-11

RX02 floppy disk

formatting, *RefPages* 8-322

RX33 disk interface, *RefPages* 4-132

RX50 console interface, *RefPages* 4-16

rxformat program, *RefPages* 8-322

rz interface, *RefPages* 4-125

rzdisk utility, *RefPages* 8-323

using, *DiskMaint* 4-9 to 4-13

S

sa command, *RefPages* 8-326

See also *ac* command

sact command (sccs), *RefPages* 1-589

save command (mail), *RefPages* 1-396

savecore command, *RefPages* 8-328

generating crash dumps with, *CrashRec* 1-4 to 1-5

savetty subroutine, *RefPages* 3-257, 3-528

sbrk system call, *RefPages* 2-26

scan command, *RefPages* 1-590

scan command (MH), *BGB* 6-13t

scandir subroutine, *RefPages* 3-120

scanf function, *RefPages* 3-512 to 3-515

scanf library routine, *InterNatl* 3-1

scanf subroutine, *RefPages* 3-290

restrictions, *RefPages* 3-515

scanw subroutine, *RefPages* 3-260, 3-528

scat command, *RefPages* 1-592

sccs command

modified version, *sccs* 3-2

SCCS directory

setting up for a project, *sccs* 3-1 to 3-2

SCCS file

auditing changes in, *sccs* 2-6 to 2-7

changing parameters of, *RefPages* 1-14 to 1-18

changing the delta commentary of, *RefPages* 1-69

checking for files being edited, *sccs* 2-4

comparing, *RefPages* 1-597

creating, *RefPages* 1-14 to 1-18, *sccs* 2-1, 3-4

data keywords and, *RefPages* 1-537

definition of, *sccs* 1-2

editing, *sccs* 2-2

format of, *RefPages* 5-149 to 5-151

getting, *RefPages* 1-261 to 1-266, *sccs* 2-2, 2-5, 3-4

getting version number of, *sccs* 2-4

identifying, *RefPages* 1-757

maintaining branches in, *sccs* 3-4 to 3-5

merging a branch in, *sccs* 3-4

merging changes in, *sccs* 2-3

operations on, *sccs* 1-1

printing, *RefPages* 1-537, 1-589

reconstructing, *RefPages* 1-88

recording changes to, *RefPages* 1-593

removing a delta, *RefPages* 1-579

restoring old version of, *sccs* 2-5 to 2-6

specifying release number of, *sccs* 2-5

ungetting, *RefPages* 1-719

validating, *RefPages* 1-733

semget system call (cont.)

See also semop system call

semop system call, *RefPages* 2–163 to 2–165

See also semctl system call

See also semget system call

send command, *RefPages* 1–603**send command (ftp)**, *RefPages* 1–253**send command (MH)**, *BGB* 6–13t**send command (TELNET)**, *RefPages* 1–686**send system call**, *Network_Prog* 2–6, *RefPages* 2–166

See also recv system call

sendmail aliases, *SysEnviron* 1–15 to 1–16**sendmail command**

processing aliases for, *SysEnviron* 1–16

sendmail daemon

See also uuencode command

restarting, *NFS* 3–6

terminating, *NFS* 3–6

sendmail program, *RefPages* 8–331

See also aliases file

sendmsg system call, *RefPages* 2–166**sendo system call**, *Network_Prog* 2–8**sendport command (ftp)**, *RefPages* 1–254**sendto system call**, *RefPages* 2–166**sequenced packet**

See socket system call

serial line controller

dc, *RefPages* 4–26

serial line interface

adding, *RefPages* 4–19

servent structure

See data structure

server, *X/OpenTransport* 1–5 to 1–6

See also client

BIND/Hesiod, *Kerberos* 4–2, 5–2

BIND/Hesiod and, *SysNetSetup* 3–8

client and, *NFS* 1–2

definition of, *DECrpc* 1–3, *DMS* 1–1, *ErrorLogger* 1–1, *NFS* 1–1, *RIS* 1–1

identifying, *DECrpc* 5–9

Kerberos, *Kerberos* 3–1, 4–1 to 4–3

looking up by interface, *DECrpc* 5–5

manager code for, *DECrpc* 5–21

registering with the Location Broker, *DECrpc* 5–20

server (cont.)

registering with the RPC runtime library, *DECrpc* 5–19

RPC server, *DECrpc* 1–7

spoofing, *SysNetSetup* 3–4

using library routines in, *DECrpc* 2–3 to 2–4

writing, *DECrpc* 5–10 to 5–21

YP name service and, *SysNetSetup* 3–12

server name

defining, *Ethernet* 3–2

server process

See client/server model

service

advertising, *X/OpenTransport* 1–5

service node, *Ethernet* 2–1

requirements for, *Ethernet* 2–5

service node circuit ID, *Ethernet* 2–5**service order file**

See svc.conf file

services file, *LAN* A–5

See also inetd.conf file

format of, *RefPages* 5–154

getting entry from, *RefPages* 3–379

specifying port in, *BIND/Hes* 1–1

YP and, *YP* 1–5, 2–13

services order file

See svc.conf file

session

creating, *RefPages* 2–174

session key, *Kerberos* 2–1

definition of, *Kerberos* 1–4

session layer

See ISO reference model

set, *DECrpc* 6–12**set command (csh)**, *RefPages* 1–131**set command (mail)**, *RefPages* 1–396 to 1–398

See also unset command (mail)

set command (sh), *RefPages* 1–610**set command (System V)**, *RefPages* 1–620**set command (TELNET)**, *RefPages* 1–687**setauth command**, *RefPages* 8–116**setauthfile subroutine**, *RefPages* 3–51**set_broker command**, *LocBrok* 2–3

sh command interpreter (cont.)
See also wait command (general)

sh interface
See DHT32 serial line interface

sh5 command interpreter, *RefPages* 1–613 to 1–623

shared memory
 control operations for, *RefPages* 2–177
 exercising, *RefPages* 8–342
 getting, *RefPages* 2–179
 reporting status of, *RefPages* 1–295

shared memory ID
 removing, *RefPages* 1–294

shared memory operation, *RefPages* 2–181

shared memory segment
 specifying in the configuration file, *Configfile* 1–6

shell, *Primer* 4–1 to 4–17, 7–1, *TechSumm* 2–1 to 2–3
 issuing commands in, *RefPages* 3–176
 writing scripts for, *BGB* 9–1 to 9–7

shell command (mail), *RefPages* 1–396

shell script, *BGB* 9–1 to 9–3
 mkconsole, *RefPages* 8–211

SHELL string, *RefPages* 7–3

shexp command, *RefPages* 1–624

shift command (csh), *RefPages* 1–131

shift command (sh), *RefPages* 1–611

shift command (System V), *RefPages* 1–621

shift macro, *RefPages* 1–389

shmat system call, *RefPages* 2–181
See also shmctl system call

shmctl system call, *RefPages* 2–177 to 2–178

shmdt system call, *RefPages* 2–181
See also shmget system call

shmget system call, *RefPages* 2–179
See also ftok subroutine
See also shmctl system call
See also shmop system call

shmop system call, *RefPages* 2–181

shmx exerciser, *Exercisers* 2–3, *RefPages* 8–342

short bitset type, *DECrpc* 6–12

short enum type, *DECrpc* 6–12

short type, *DECrpc* 6–11

show command, *RefPages* 1–626

show command (MH), *BGB* 6–13t

showmount command, *RefPages* 8–344
See also rmtab file
 –e option and, *NFS* 2–3
 system security and, *NFS* 3–7

shutdown command, *RefPages* 8–345
Best reference, *Shutdown*
 shutting down multiuser mode, *Shutdown* 1–1e

shutdown system call, *Network_Prog* 2–8, *RefPages* 2–183

SID
 definition of, *RefPages* 1–594, *sccs* 1–3

sigaction system call, *RefPages* 3–131

sigaddset subroutine, *RefPages* 3–143

sigblock system call, *RefPages* 2–184
See also sigpause system call
See also sigsetmask system call
See also sigsuspend system call

SIGCHLD signal
See signal

sigdelset subroutine, *RefPages* 3–143

sigemptyset subroutine, *RefPages* 3–143

sigfillset subroutine, *RefPages* 3–143

siginterrupt, *RefPages* 3–132

SIGIO signal
See signal

sigismember subroutine, *RefPages* 3–143

siglongjmp subroutine, *RefPages* 3–142

signal, *Network_Prog* 3–6, *RefPages* 2–184 to 2–186, 3–143
See also signal mask
 blocking, *RefPages* 3–140
 changing action, *RefPages* 3–137
 changing action for, *RefPages* 3–133
 releasing blocked, *RefPages* 3–145

signal handler
 assigning, *RefPages* 2–189 to 2–194, 3–131

signal mask
 setting, *RefPages* 2–187

signal message
 getting, *RefPages* 3–108

signal stack
 getting context of, *RefPages* 2–188
 setting context of, *RefPages* 2–188

SNMP community

definition of, *LAN* 3-2

SNMP Extended Agent

See extended agent

snmpd, *RefPages* 8-350 to 8-351

snmpd daemon, *SysNetSetup* 2-10

See also agent

snmpd.conf file, *LAN* 3-2 to 3-5, *Network_Prog* 7-7,

SysNetSetup 2-10

definition of, *RefPages* 5-155

parameters in, *RefPages* 5-155 to 5-156, 5-156

snmpext routine, *RefPages* 3-383

snmpexterror routine, *Network_Prog* 7-6

snmpextgetregister routine, *Network_Prog* 7-6

snmpextgetreq routine, *Network_Prog* 7-6

snmpextrespond routine, *Network_Prog* 7-6

snmpsetup command, *RefPages* 8-352

definition of, *LAN* 3-5

SOA data file entry

definition of, *BIND/Hes* 2-8

sockaddr

See data structure

SOCK_DGRAM

See socket type

SOCK_DGRAM socket type, *RefPages* 2-199

socket

See also nonblocking socket

See also socket option

See also socket type

accepting connection to, *RefPages* 2-10

binding an address to, *Network_Prog* 2-4

binding to a name, *RefPages* 2-22

creating, *Network_Prog* 2-3, *RefPages* 2-198

creating connected pair of, *RefPages* 2-202

datagram for, *Network_Prog* 2-3

defined types of, *RefPages* 2-198

getting name of, *RefPages* 2-92

getting options for, *RefPages* 2-93

getting peer name of, *RefPages* 2-82

how to obtain, *DECrpc* 5-19

initiating a connection with, *RefPages* 2-41

lingering, *Network_Prog* 2-7

listening on, *Network_Prog* 2-5

multiplexing synchronous I/O, *RefPages* 2-157

socket (cont.)

obtaining type of, *Network_Prog* 2-10

queuing connections to, *RefPages* 2-105

raw, *Network_Prog* 3-1

reading data from, *Network_Prog* 2-11, *RefPages* 2-145

receiving message from, *RefPages* 2-151

sending message from, *RefPages* 2-166

setting options for, *RefPages* 2-93

shutting down full-duplex connection, *RefPages* 2-183

stream, *Network_Prog* 2-3

unsuccessful connection to, *Network_Prog* 2-5

writing, *RefPages* 2-228

socket abstraction, *DECrpc* 1-3, *LocBrok Glossary*-1

socket address, *DECrpc* 1-3

data structure for, *DECrpc* 1-4

relationship to port numbers, *DECrpc* 1-4, *LocBrok Glossary*-3

socket option

obtaining information about, *Network_Prog* 2-10

SO_LINGER, *Network_Prog* 2-7

SOL_SOCKET, *Network_Prog* 2-10

SO_OOBINLINE, *Network_Prog* 3-9

SO_TYPE, *Network_Prog* 2-10

socket routine, *RefPages* 3-477 to 3-487

socket system call, *Network_Prog* 2-3 to 2-8, *RefPages* 2-198 to 2-200

socket type

defining, *Network_Prog* 2-10

SOCK_DGRAM, *Network_Prog* 2-10

socket_\$ library routine, *DECrpc* 2-5

socket.idl file, *DECrpc* 2-8

socketpair system call, *RefPages* 2-202

See also getpeername system call

See also pipe system call

SOCK_RAW socket type, *RefPages* 2-199

SOCK_SEQPACKET socket type

definition of, *RefPages* 2-199

SOCK_STREAM socket type

definition of, *RefPages* 2-199

soelim command, *RefPages* 1-636

SO_ERROR

See error message

stack segment
specifying in the configuration file, *Configfile* 1–6

staging area
definition of, *Backup* 4–3

staging area backup method
See also direct backup method
definition of, *Backup* 4–3
description of, *Backup* 4–9 to 4–11

staging area file, *Backup* 4–9

standalone environment, *Shutdown* 4–1 to 4–3

standard buffered input/output package
See stdio macro package

standard input
reading from, *BGB* 9–7

standard I/O
subroutines for, *RefPages* 3–510

standard time status
specifying, *BasicInstall* 3–3

standend subroutine, *RefPages* 3–203, 3–528

standout subroutine, *RefPages* 3–203, 3–528

start command (lpc), *RefPages* 8–189

stat system call, *RefPages* 2–204 to 2–205
See also ustat system call

statd
directory, *RefPages* 5–164
file structures, *RefPages* 5–164

statd daemon, *RefPages* 8–354

statmon, *RefPages* 5–164

status command (dbx), *RefPages* 1–170

status command (ftp), *RefPages* 1–254

status command (lpc), *RefPages* 8–189

status command (mt), *RefPages* 1–443

status command (pdx), *RefPages* 1–502

status command (TELNET), *RefPages* 1–685

status command (tftp), *RefPages* 1–695

status parameter
checking, *DECrpc* 5–13e
in interface definitions, *DECrpc* 5–13, 6–10
initializing, *DECrpc* 5–14e, 5–22
use of, *DECrpc* 5–13

stc interface
See TZK50 magnetic tape interface

stdio macro package, *RefPages* 3–493 to 3–494

step command (dbx), *RefPages* 1–170

step command (pdx), *RefPages* 1–502

sticky file, *RefPages* 8–355 to 8–356
removing, *RefPages* 8–356

stime system call, *RefPages* 3–160
See also gettimeofday system call

stl_comp file, *RefPages* 5–165

stl_ctrl file, *RefPages* 5–166

stop command (csh), *RefPages* 1–132

stop command (dbx), *RefPages* 1–170

stop command (lpc), *RefPages* 8–189

stop command (pdx), *RefPages* 1–502

stopi command (pdx), *RefPages* 1–503

store subroutine, *RefPages* 3–530

storeauthen subroutine, *RefPages* 3–51

strcat subroutine, *RefPages* 3–147
See also bcopy subroutine

strchr subroutine, *RefPages* 3–147

strcmp subroutine, *RefPages* 3–147

strcoll library routine, *InterNat1* 3–1

strcoll subroutine, *RefPages* 3–163

strcpy subroutine, *RefPages* 3–147

strncpy subroutine, *RefPages* 3–147

stream
See socket
appending, *RefPages* 3–502
assigning buffering to, *RefPages* 3–517
closing, *RefPages* 3–497
definition of, *RefPages* 3–493
flushing, *RefPages* 3–497
getting data from, *RefPages* 3–504 to 3–505
opening, *RefPages* 3–500
pushing character back, *RefPages* 3–522
putting data on, *RefPages* 3–510 to 3–511
reading, *RefPages* 3–502
repositioning, *RefPages* 3–503
returning to remote command, *RefPages* 3–562, 3–564
status queries for, *RefPages* 3–498

stream text editor, *RefPages* 1–600

streaming mode
definition of, *Backup* 4–3

strextact command, *InterNat1* 2–2, 2–8

swap area
specifying in the configuration file, *Configfile* 1–9

swap file
estimating disk space for, *DMS* 2–4
specifying a location for, *DMS* 4–3
specifying the size of, *DMS* 4–3e

swap space
See also swap1 space
See also swap2 space
allocating, *DiskMaint* 1–7
crash dump space and, *AdvInstall* 2–3
definition of, *AdvInstall* 2–3
establishing size of, *DiskMaint* 1–2
requirements for, *AdvInstall* 2–3

swap1 space
allocating, *AdvInstall* 3–8

swap2 space
allocating, *AdvInstall* 3–9

swapfrag parameter
specifying in the configuration file, *Configfile* 1–5

swapon command, RefPages 8–360
See also fstab file

swapon system call, RefPages 2–208

switch command (csh), RefPages 1–132

symbol table, RefPages 5–175
displaying, *RefPages* 1–473
removing, *RefPages* 1–654
updating, *RefPages* 1–670

symbol type
reference list of, *RefPages* 1–473

symbolic link, RefPages 1–360

symlink system call, RefPages 2–209
See also readlink system call
See also stat system call

symmetrical multiprocessing
See SMP

symorder command, RefPages 1–670

sync command, RefPages 1–671
See also sync system call

sync system call, RefPages 2–211
See also update program

syscall system call, RefPages 2–212 to 2–213

syscmd macro, RefPages 1–389

sysconf subroutine, RefPages 3–174

syscript command, RefPages 8–361
See also cmx exerciser
See also dskx exerciser
See also fsx exerciser
See also lpx exerciser
See also memx exerciser
See also mtx exerciser
See also netx exerciser
See also shm_x exerciser
testsuite file and, *Exercisers* 1–2

sys_errlist subroutine, RefPages 3–105

syslog command, RefPages 8–362 to 8–363

syslog file, LAN A–6
entry format for, *uucp* 3–5
reviewing, *BIND/Hes* 5–3

syslog subroutine, RefPages 3–175
See syslog command

sys_nerr subroutine, RefPages 3–105

sys_siglist subroutine, RefPages 3–108

system
See also host ID
See also host name
backing up, *Backup* 2–1 to 2–8, *BasicInstall* 1–4,
RefPages 8–261
booting, *Shutdown* 2–1 to 2–4
changing user information for, *RefPages* 1–77
displaying statistics for, *RefPages* 8–273
getting name of, *RefPages* 2–217
getting version number of, *RefPages* 2–217
halting, *Shutdown* 1–2
hanging during boot, *NFS* 4–5
identifying machine type of, *RefPages* 2–217
listing user information on, *RefPages* 1–234
logging message on, *RefPages* 8–362
managing performance of, *SysEnviron* 5–1 to 5–4
rebooting, *AdvInstall* 3–3, *Ethernet* 2–3, *RefPages*
2–149
reporting statistics for, *RefPages* 1–750
resetting date on, *RefPages* 8–287
resetting time on, *RefPages* 8–287
setting up after installation, *AdvInstall* 4–26
showing login time on, *RefPages* 1–752
showing run queue average, *RefPages* 1–721,
1–752

system management, *TechSumm* 2-7 to 2-10

system modification, *TechSumm* 2-8

system name

- choosing, *AdvInstall* 3-4
- specifying during basic installation, *BasicInstall* 3-3
- specifying in the configuration file, *Configfile* 1-4

system reboot

- effect of on file system, *CrashRec* 1-2

system security, *SysNetSetup* 3-6t

- See also the Guide to Languages and Programming*
- See also the Security Guide for Administrators*
- See also the Security Guide for Users*
- BSD level, *Kerberos* 5-2
- ENHANCED level, *Kerberos* 5-4
- NFS and, *NFS* 3-4 to 3-8
- of reusable ticket, *Kerberos* 2-3
- UPGRADE level, *Kerberos* 5-1 to 5-3
- uucp and, *uucp* 3-8 to 3-12
- YP and, *YP* 3-1 to 3-3

system security level, *LAN* 2-4 to 2-6

system setup

- adding LAT devices, *SysNetSetup* 1-8
- adding printers, *SysNetSetup* 1-12
- adding users, *SysNetSetup* 1-2
- establishing disk quotas, *SysNetSetup* 1-16

system status server

- rwhod server, *RefPages* 8-320

system subroutine (standard C), *RefPages* 3-176

system time

- setting, *LAN* A-4
- specifying, *BasicInstall* 3-3

System V environment

- specifying, *RefPages* 3-2

SYSTEM V shell

- See shell*

system verification, *TechSumm* 2-8

Systems Communications Services interface

- See scs interface*

SYS_TPATH option

- specifying in the configuration file, *Configfile* 1-8

sys_tpath pseudodevice definition

- specifying in the configuration file, *Configfile* 1-16

SYS_TRACE option

- specifying in the configuration file, *Configfile* 1-7

sys_trace pseudodevice definition

- specifying in the configuration file, *Configfile* 1-16

T

TA90 magnetic tape interface, *RefPages* 4-175

tab character

- changing to spaces, *RefPages* 1-223

table

- creating with tbl, *BGB* 5-1
- formatting, *RefPages* 1-682

table column

- See field*

tabs command, *RefPages* 1-672

- See also term command*

t_accept system call, *RefPages* 3-569

t_accept(), *X/OpenTransport* 2-10, 2-15

tag

- in unions, *DECrpc* 6-13, 6-14

tags file

- See ctags command*

tail command, *RefPages* 1-673

talk command, *BGB* 7-2

talk program, *RefPages* 1-674

- See also mesg command*
- See also talkd server*
- See also write command*

talkd server, *RefPages* 8-365

t_alloc system call, *RefPages* 3-572

t_alloc(), *X/OpenTransport* 2-10, 2-15 to 2-16, 4-3

tan subroutine, *RefPages* 3-362

tan subroutine (math), *RefPages* 3-364

tanh subroutine (math), *RefPages* 3-367

tape drive

- See magnetic tape drive*

tape mark

- definition of, *RefPages* 5-88

Tape Mass Storage Control Protocol

- TMSCP magnetic tape interface, *RefPages* 4-175

tape media

- making, *setld* 5-7

terminal (cont.)

- setting, *RefPages* 1-710 to 1-713
 - setting characteristics of, *RefPages* 5-52
 - setting input/output characteristics, *RefPages* 1-658
 - setting mode of, *RefPages* 8-120
 - setting state of, *RefPages* 3-170
 - setting tabs for, *RefPages* 1-672
 - showing name of, *RefPages* 1-752, 1-764
 - synchronous networked asynchronous, *CursesX* 2-9
 - underlining and, *RefPages* 1-717
 - updating screen, *RefPages* 3-193, 3-528
 - viewing one screenful at a time, *RefPages* 1-436 to 1-438
- terminal communications system**
- testing, *Exercisers* 4-2, *RefPages* 8-51
- Terminal Emulator**
- See 2780/3780 Terminal Emulator
- terminal initialization file**
- ,
- SysEnviron*
- 1-8
- format of, *SysEnviron* 1-8 to 1-10
 - modifying, *SysEnviron* 1-11 to 1-12
 - modifying print system, *SysEnviron* 3-2
- terminal interface**
- ,
- RefPages*
- 4-155, 4-180 to 4-192
- See also bk line discipline
- terminal line**
- adding, *SysEnviron* 2-1 to 2-2
- terminal multiplexer**
- adding, *SysEnviron* 2-1 to 2-2
- terminal server**
- capabilities of, *Ethernet* 1-1
 - downline loading, *Ethernet* 2-3
 - setting up, *Ethernet* 2-1
- terminal server load image**
- installing, *Ethernet* 2-3
- terminal server name**
- obtaining, *Ethernet* 3-3
- terminal server port settings**
- ,
- Ethernet*
- 3-1

terminals, *TechSumm* 2-1 to 2-2**terminals database**, *RefPages* 5-191**terminfo compiler**tic, *RefPages* 1-696**TERMINFO variable**, *CursesX* 2-5**t_error** system function, *RefPages* 3-581**t_error()**, *X/OpenTransport* 2-5**test command**, *RefPages* 1-690 to 1-692

See also find command

test command (System V), *RefPages* 1-621**text processor**for monospace output, *RefPages* 1-475**text segment**specifying in the configuration file, *Configfile* 1-5**tfind subroutine**, *RefPages* 3-179**t_free** system call, *RefPages* 3-583

See also t_alloc system call

t_free(), *X/OpenTransport* 4-3**tftp program**, *RefPages* 1-694 to 1-695**tftpd server**, *RefPages* 8-373

See also tftpd program

tgetent subroutine, *RefPages* 3-267, 3-565

See also curses package

See also termcap file

tgetflag subroutine, *RefPages* 3-267, 3-565**t_getinfo()**, *X/OpenTransport* 2-5, 4-1**tgetnum subroutine**, *RefPages* 3-267, 3-565**t_getstate** system call, *RefPages* 3-588**tgetstr subroutine**, *RefPages* 3-267, 3-565**tgoto subroutine**, *RefPages* 3-267, 3-565**thesis**formatting, *RefPages* 7-43**tic command**, *RefPages* 1-696**ticket**, *Kerberos* 1-4definition of, *Kerberos* 1-3destroying, *Kerberos* 3-5lifespan of, *Kerberos* 2-2**ticket-granting service**, *Kerberos* 1-4, 3-3**ticket-granting ticket**, *Kerberos* 1-4, 6-7**time**converting to ASCII, *RefPages* 3-20for client, *Kerberos* 4-2for master, *Kerberos* 4-2getting, *RefPages* 2-97, 3-177reporting, *RefPages* 3-15setting, *RefPages* 1-156, 2-97, 3-160showing, *RefPages* 1-752, 1-764**time command**, *RefPages* 1-697displaying, *RefPages* 1-156

trace command (dbx), *RefPages* 1–169

trace command (ftp), *RefPages* 1–254

trace command (general), *RefPages* 1–705

trace command (pdx), *RefPages* 1–501

trace command (tftp), *RefPages* 1–695

trace file, *RefPages* 5–207

trace keyword
See system call tracing interface

tracel command (pdx), *RefPages* 1–503

traceon subroutine, *RefPages* 3–271

trans command, *InterNatl* 2–2, 2–8 to 2–9

trans utility, *RefPages* 1–707

transfer stage
 problems with, *uucp* 5–4

translation filters, *RefPages* 8–184

translator
 PostScript, *RefPages* 8–8

translit macro, *RefPages* 1–389

transliterate protocol trace
See trpt command

transmission log
 obtaining, *uucp* 5–2 to 5–5

transmit_as type attribute, *DECrpc* 7–6e to 7–8e
 description of, *DECrpc* 4–4
 restrictions in use of, *DECrpc* 7–10
 syntax for, *DECrpc* 6–6

transmitted type, *DECrpc* 7–8e
 routines for conversion of, *DECrpc* 7–5
 storage for, *DECrpc* 7–5

transport address, *X/OpenTransport* 3–3

transport connection
 abortive release, *RefPages* 3–616
 orderly release, *RefPages* 3–618

transport endpoint
 associated address, *X/OpenTransport* 1–4, 2–2, 2–5
 binding address, *X/OpenTransport* 2–9, 2–15
 binding to, *X/OpenTransport* 2–2
 closing, *RefPages* 3–577, *X/OpenTransport* 2–20
 description of, *X/OpenTransport* 1–3
 disabling, *RefPages* 3–624, *X/OpenTransport* 1–7, 2–20, 3–5
 establishing, *X/OpenTransport* 1–4, 1–8, 2–8, 3–3
 identifying, *X/OpenTransport* 2–1, 2–13, 2–17, 2–19

transport endpoint (cont.)
 initializing, *RefPages* 3–596
 manipulating, *X/OpenTransport* 1–3
 polling for asynchronous events, *RefPages* 3–592
 protocol address of, *RefPages* 3–574
 returning current event from, *RefPages* 3–592
 synchronizing, *X/OpenTransport* 2–16
 used for connection, *X/OpenTransport* 2–15

transport layer
See ISO reference model

transport library
 synchronizing, *RefPages* 3–622

transport protocol
 characteristics of, *X/OpenTransport* 2–1, 2–4, 3–3
 returning characteristics of, *RefPages* 3–587

transport provider
 accepting connection to, *X/OpenTransport* 2–2
 address of, *X/OpenTransport* 1–4, 1–8
 characteristics of, *X/OpenTransport* 2–2, 4–1
 description of, *X/OpenTransport* 1–1
 establishing communication path with, *X/OpenTransport* 2–1
 establishing connection with, *X/OpenTransport* 1–4
 functions of, *X/OpenTransport* A–2
 identifying, *X/OpenTransport* 2–4, 2–12, 3–3
 identity, *X/OpenTransport* 1–4, 1–8, 3–1
 passing data to, *X/OpenTransport* 2–12
 protocol options for, *X/OpenTransport* 4–1
 quality of service and, *X/OpenTransport* 1–3
 returning current state from, *RefPages* 3–588
 returning information from, *X/OpenTransport* 2–1, 2–12
 service types, *X/OpenTransport* 2–2
 state tables and, *X/OpenTransport* A–5 to A–6
 urgent condition and, *X/OpenTransport* 2–16

transport service interface
 BSD IPC enhancements to, *X/OpenTransport* 1–2
 characteristics of, *X/OpenTransport* 1–2
 components of, *X/OpenTransport* 1–10
 event handling, *X/OpenTransport* 1–2

transport user
 accepting connection with, *RefPages* 3–569
 actions of, *X/OpenTransport* A–5
 protocol options and, *RefPages* 3–598

type (cont.)
definition of, *DECrpc* 1-2
in interfaces with multiple versions, *DECrpc* 7-20
in NDR, *DECrpc* 5-1
multiple managers for, *DECrpc* 7-21e
portability issues with, *DECrpc* 5-1
specifiers, *DECrpc* 6-6, 6-9 to 6-10

type attribute

handle, *DECrpc* 4-4
restrictions in use of, *DECrpc* 7-10
syntax for, *DECrpc* 6-5
transmit_as, *DECrpc* 4-4, 6-6, 7-6e

type command (ftp), *RefPages* 1-254

type command (mail), *RefPages* 1-396

See also print command (mail)

type command (System V), *RefPages* 1-621

type conversion, *DECrpc* 7-5 to 7-10

type declaration, *DECrpc* 4-5e

description of, *DECrpc* 4-4
syntax for, *DECrpc* 6-5

type file

format of, *RefPages* 5-211

type specifier, *DECrpc* 6-11

type UUID, *DECrpc* 1-3, *LocBrok* 1-1, 2-4

typeahead subroutine, *RefPages* 3-272

typedef declaration, *DECrpc* 6-5

typescript file

creating, *RefPages* 1-599

tz interface

See TZ30 magnetic tape interface

TZ30 magnetic tape interface, *RefPages* 4-195

tzet subroutine, *RefPages* 3-20

U

uac command, *RefPages* 1-716

uda interface

See MSCP disk interface

SCSI disk interface, *RefPages* 4-125

UDP, *RefPages* 4-196

See also ICMP

TCP and, *RefPages* 4-196

UDP protocol, *X/OpenTransport* 4-3

uerf command, *RefPages* 8-383 to 8-391

using, *ErrorLogger* 4-1 to 4-12

UFS, *DiskMaint* 1-1

mounting, *RefPages* 8-226

UFS file, *RefPages* 5-215

UFS option

specifying in the configuration file, *Configfile* 1-8

ufs pseudodevice definition

specifying in the configuration file, *Configfile* 1-16

ufs_mount command, *RefPages* 8-226

UID

importing file systems with NFS and, *SysNetSetup*
2-6n

specifying in a networked environment,

SysNetSetup 1-2

uid field

in auth database, *Kerberos* 5-2

ul command, *RefPages* 1-717

ulimit command (System V), *RefPages* 1-621

ulimit system call, *RefPages* 3-182

ULTRIX File System

See UFS

ULTRIX Software Source Book, *TechSumm* 2-4

ULTRIX Worksystem Software, *TechSumm* 2-2 to
2-7

umask command (csh), *RefPages* 1-132

umask command (sh), *RefPages* 1-611

umask command (System V), *RefPages* 1-621

umask system call, *RefPages* 2-216

umount command (general), *RefPages* 8-220

unmounting a file system with, *DiskMaint* 1-4

umount command (NFS), *RefPages* 8-222

umount system call (general), *RefPages* 2-112

umount system call (NFS), *RefPages* 2-115

unalias command (csh), *RefPages* 1-132

unalias command (mail), *RefPages* 1-396

uname system call, *RefPages* 2-217

_unbind routine, *DECrpc* 7-11 to 7-13

unbound handle, *DECrpc* 1-10

creation of, *DECrpc* 5-4

deciding whether to use, *DECrpc* 5-8

uncompact command, *RefPages* 1-94

unctrl macro, *RefPages* 3-273

/usr/users directory
 changing distribution of, *DiskMaint* 1–9

ustat system call, *RefPages* 2–220
See also fs file

utility
 overview of, *TechSumm* 2–5 to 2–10
 software development, *TechSumm* 2–3 to 2–7
 system, *TechSumm* 2–1 to 2–11

utime function, *RefPages* 3–183

utimes system call, *RefPages* 2–221

utmp file, *SysEnviron* 5–2
 format of, *RefPages* 5–218

uuaids keyword, *RefPages* 8–393

uucico daemon, *RefPages* 8–395

uucico program
 definition of, *uucp* 1–1
 troubleshooting a connection, *uucp* 5–1

uuclean program, *RefPages* 8–397

uucompact utility, *RefPages* 8–393

uucp file
 setting up, *RefPages* 8–398

uucp utility, *RefPages* 1–723 to 1–729
See also L-devices file
See also L-dialcodes file
See also rmail command
See also USERFILE file
See also uuclean program
See also uucompact utility
See also uumonitor program
See also uusend command
See also uustat program
 acucap file and, *RefPages* 5–10
 definition of, *uucp* 1–1
 L.sys file and, *RefPages* 5–75
 maintaining, *uucp* 3–1 to 3–12
 setting up, *uucp* 2–1 to 2–12
 setting up for PAD, *uucp* 4–2 to 4–4
 spool directories and, *RefPages* 8–393 to 8–397
 troubleshooting, *uucp* 5–1 to 5–7
 YP domain and, *YP* 2–15n

uucpsetup command, *RefPages* 8–398
 running, *uucp* 2–1 to 2–3

uudecode command, *RefPages* 1–725

uuencode command, *RefPages* 1–725
See also uuencode file

uuencode file
 format of, *RefPages* 5–219

UUID, *RefPages* 1–726
 as an RPC handle, *DECrpc* 4–8e
 definition of, *DECrpc* 1–3, *LocBrok* 1–1
 generation of, *DECrpc* 1–3, 2–1
 generation of for interface, *DECrpc* 4–1e
 in interface definition, *DECrpc* 4–3
 nil UUID, *DECrpc* 1–3
 routines argument, *DECrpc* 5–4
 routines for manipulating, *DECrpc* 2–6
 string representation in, *DECrpc* 1–3
 use in Location Broker database, *LocBrok* 1–3

UUID attribute
 in interface definition, *DECrpc* 6–2

UUID data structure, *DECrpc* 1–3

UUID routines, *RefPages* 3–488 to 3–491

uuid_\$ library routine, *DECrpc* 2–6

uuid_\$nil external variable, *DECrpc* 1–3

uuid_gen utility, *LocBrok* 1–1
 description of, *DECrpc* 1–3
 output from, *DECrpc* 2–1

uuid.idl file, *DECrpc* 2–8

uumkspool utility, *RefPages* 8–393

uumonitor program, *RefPages* 8–399, *uucp* 3–3 to 3–4

uupoll utility, *RefPages* 8–393

uurespool utility, *RefPages* 8–393

uusend command, *RefPages* 1–728

uustat program, *uucp* 3–4 to 3–5
 options, *RefPages* 1–729

uux command, *RefPages* 1–731

uux program
See also L.cmds file
 definition of, *uucp* 1–1

uuxqt program
 functions of, *uucp* 1–2

/vmunix file

- examining name list, *RefPages* 3–101
- examining name list for, *RefPages* 3–100

void type, *DECrpc* 6–12

- for operations, *DECrpc* 6–9

Volatile macro, *DECrpc* 5–12

volatile option, *DECrpc* 5–12

vprintf subroutine, *RefPages* 3–292, 3–523

vsprintf subroutine, *RefPages* 3–292

vtimes subroutine, *RefPages* 3–190

- See also* getrusage system call

W

w command, *RefPages* 1–752

waddch subroutine, *RefPages* 3–200, 3–528

waddstr subroutine, *RefPages* 3–202, 3–528

wait command (csh), *RefPages* 1–133

wait command (general), *RefPages* 1–754

wait command (sh), *RefPages* 1–611

wait command (System V), *RefPages* 1–621

wait lock

- See* lock

wait system call, *RefPages* 2–225 to 2–227

- See also* exit system call

wait3 system call, *RefPages* 2–225

waitpid system call, *RefPages* 2–225

wall command, *RefPages* 1–755

- See also* mesg command

- See also* write command (general)

wattroff subroutine, *RefPages* 3–203

watron subroutine, *RefPages* 3–203

wattrset subroutine, *RefPages* 3–203

wc command, *RefPages* 1–756

- See also* sum command

wclear subroutine, *RefPages* 3–209, 3–528

wclrtoob subroutine, *RefPages* 3–211, 3–528

wclrtoeol subroutine, *RefPages* 3–212, 3–528

wdelch subroutine, *RefPages* 3–215, 3–528

wdeleteln subroutine, *RefPages* 3–216, 3–528

well-known port, *LocBrok* 1–5

- definition of, *DECrpc* 1–5

- using LB instead of, *DECrpc* 1–17

weof command (mt), *RefPages* 1–442

werase subroutine, *RefPages* 3–221, 3–528

wgetch subroutine, *RefPages* 3–224, 3–528

wgetstr subroutine, *RefPages* 3–226, 3–528

what command (sccs), *RefPages* 1–595, 1–757

- using, *sccs* 2–4

whatis command (general), *RefPages* 1–758

- See also* catman command

whatis command (pdx), *RefPages* 1–502

whatnow command, *RefPages* 1–759

whatnow command (MH), *BGB* 6–13t

where command (pdx), *RefPages* 1–503

whereis command, *RefPages* 1–761, 1–761

which command, *Primer* 4–2

which command (csh), *RefPages* 1–763

which command (pdx), *RefPages* 1–502

while command (csh), *RefPages* 1–133

while command (sh), *RefPages* 1–607

while command (System V), *RefPages* 1–614

while loop, *nawk* 4–4

white space, *nawk* 1–2

who command, *Primer* 4–13, *RefPages* 1–764

- See also* finger command

- See also* users command

- See also* whoami command

whoami command, *RefPages* 1–765

whois service

- using, *BIND/Hes* 4–6

whom command (MH), *BGB* 6–13t

wildcard address, *Network_Prog* 3–2

- definition of, *RefPages* 4–145

wildcard character

- See also* character

- See also* metacharacter

- definition of, *Primer* 4–4

- using in file names, *Primer* 4–4

winch macro, *RefPages* 3–232

winch subroutine, *RefPages* 3–528

window

- creating and using, *CursesX* 1–3

- definition of, *RefPages* 3–193

WINDOW type, *CursesX* 2–1

windowing application

- portability of, *TechSumm* 2–5

YP client (cont.)

definition of, *YP* 1-2

setting up, *YP* 2-11 to 2-15

troubleshooting, *YP* 4-1 to 4-5

YP client interface, *RefPages* 3-628**YP database**

changes to, *YP* 1-2

updating, *YP* 4-7

YP domain

definition of, *RefPages* 5-222, *YP* 1-1 to 1-3

establishing, *YP* 2-4 to 2-11

getting name of, *YP* 1-3

setting default, *YP* 2-10

setting default name of, *YP* 2-5, 2-12

YP environment

modifying, *YP* 2-20 to 2-24

setting up, *RefPages* 8-411

YP map

See also YP server map

access policies for, *YP* 3-3

building default, *YP* 2-4

copying, *YP* 2-9

copying to slave servers, *RefPages* 8-408

definition of, *RefPages* 5-222

determining version of, *RefPages* 8-407

displaying values, *RefPages* 1-777 to 1-778

format of, *RefPages* 5-222

global file types in, *YP* 3-1

library routines and, *YP* 1-4n

local file pointers in, *YP* 3-2

local file types in, *YP* 3-1

modifying, *YP* 2-15 to 2-17

propagating, *YP* 2-17 to 2-18

transferring, *RefPages* 8-412

updating, *YP* 2-23

YP master server and, *YP* 2-15

YP master server

as YP client, *YP* 2-4

changing, *YP* 2-21 to 2-22

definition of, *YP* 1-2

modifying database files on, *YP* 2-5n

required database files for, *YP* 2-3

setting up, *YP* 2-3

YP password server daemon

starting, *YP* 2-5

YP server, *RefPages* 1-781, 8-409

See also YP master server

See also YP slave server

adding to domain, *YP* 2-20

as YP client, *YP* 2-1

preinstallation backup of, *BasicInstall* 1-4

setting up, *YP* 2-1 to 2-2

troubleshooting, *YP* 4-5 to 4-7

types of, *SysNetSetup* 3-12 to 3-15

YP server map

creating, *YP* 2-6

YP service

Best reference, YP

automounted file systems and, *NFS* 2-18

changing password in, *RefPages* 1-779

command reference list, *YP* A-1 to A-2

default database files for, *YP* 1-3 to 1-5

description of, *YP* 1-2 to 1-5

hanging system and, *NFS* 4-5

library function for, *RefPages* 3-625

list of distributed databases for, *LAN* 2-2

managing, *YP* 3-1 to 3-6

network and, *YP* 4-1n

prerequisites for setup, *YP* 2-2

rebuilding data base for, *RefPages* 8-404

setting up, *SysNetSetup* 3-12, *YP* 2-1 to 2-24

svccorder file and, *RefPages* 8-411

troubleshooting, *YP* 4-1 to 4-7

unavailable to client, *YP* 4-3 to 4-4

uucp utility and, *uucp* 2-1n

uucpsetup command and, *uucp* 3-1n

YP slave server

definition of, *YP* 1-2

removing from domain, *YP* 2-21

setting up, *YP* 2-9 to 2-11

updating YP maps for, *YP* 2-11

yp_all subroutine, *RefPages* 3-628**ypbind command**

definition of, *YP* A-1

and the *-S* option, *YP* 3-1

ypbind daemon, *RefPages* 8-409

See also ypwhich command

How to Order Additional Documentation

Technical Support

If you need help deciding which documentation best meets your needs, call 800-343-4040 before placing your electronic, telephone, or direct mail order.

Electronic Orders

To place an order at the Electronic Store, dial 800-234-1998 using a 1200- or 2400-baud modem from anywhere in the USA, Canada, or Puerto Rico. If you need assistance using the Electronic Store, call 800-DIGITAL (800-344-4825).

Telephone and Direct Mail Orders

Your Location	Call	Contact
Continental USA, Alaska, or Hawaii	800-DIGITAL	Digital Equipment Corporation P.O. Box CS2008 Nashua, New Hampshire 03061
Puerto Rico	809-754-7575	Local Digital Subsidiary
Canada	800-267-6215	Digital Equipment of Canada Attn: DECdirect Operations KAO2/2 P.O. Box 13000 100 Herzberg Road Kanata, Ontario, Canada K2K 2A6
International	_____	Local Digital subsidiary or approved distributor
Internal*	_____	SSB Order Processing - WMO/E15 <i>or</i> Software Supply Business Digital Equipment Corporation Westminster, Massachusetts 01473

* For internal orders, you must submit an Internal Software Order Form (EN-01740-07).

Reader's Comments

ULTRIX
Reader's Guide and Master Index
AA-ME82B-TE

Please use this postage-paid form to comment on this manual. If you require a written reply to a software problem and are eligible to receive one under Software Performance Report (SPR) service, submit your comments on an SPR form.

Thank you for your assistance.

Please rate this manual:	Excellent	Good	Fair	Poor
Accuracy (software works as manual says)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness (enough information)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity (easy to understand)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organization (structure of subject matter)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Figures (useful)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Examples (useful)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Index (ability to find topic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Page layout (easy to find information)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What would you like to see more/less of? _____

What do you like best about this manual? _____

What do you like least about this manual? _____

Please list errors you have found in this manual:

Page	Description
_____	_____
_____	_____
_____	_____
_____	_____

Additional comments or suggestions to improve this manual:

What version of the software described by this manual are you using? _____

Name/Title _____ Dept. _____

Company _____ Date _____

Mailing Address _____

_____ Email _____ Phone _____