

# 5. Documentation

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This section describes the following documentation that supports the UNICOS 9.0 release:

- New publications, including the reorganized system administration set and renamed and reclassified publications
- Publications no longer supporting the UNICOS release package
- Online documentation for UNICOS 9.0
- Printed documentation included with the UNICOS 9.0 release package (core set of documentation)
- Printed documentation available for purchase that supports the UNICOS 9.0 release

**Note:** For the UNICOS 9.0 release, a core set of printed documentation is included with the release package; all other documentation is included as online documentation only. For a list of the core set of printed documentation, see subsection 5.4.1, page 5–17. For lists of all online documentation that is included with the release package, see subsection 5.3, page 5–9.

Printed copies of documentation that you receive online as man pages, Docview files, or CrayDoc books may be purchased from Cray Research. If you elect to purchase a printed version of any online documentation that is included with the release package, you must order the publications separately from the UNICOS release package.

All Cray Research, Inc. publications referenced in this release overview can be ordered from the Cray Research Distribution Center. Also, this *UNICOS 9.0 Release Overview* is a public document and may be ordered from the Cray Research Distribution Center (stock number RO–5000 9.0).

## 5.1 New publications

The following publications are new since the UNICOS 8.0 base release.

- *UNICOS Shared File System (SFS) Administrator's Guide*, publication SG-2114 9.0. This guide documents the administration of the UNICOS SFS feature, which allows multiple Cray Research systems to access one or more shared file systems for read/write operations.
- *NQE User's Guide*, publication SG-2148 2.0. This publication describes how to use the Network Queueing Environment (NQE). A tutorial is provided. NQE user-level man pages are only available online. This manual is available through CrayDoc; it is not shipped with the release.
- *NQE Administration*, publication SG-2150 2.0. This publication provides information on configuring, operating, and monitoring NQE. It also describes how to set up load-balancing policies and use NQE cycle-stealing functionality. NQE administrator man pages are only available online. This manual is available through CrayDoc; it is not shipped with the release.
- *Introducing NQE*, publication IN-2153 2.0. This publication provides an overview of NQE functionality and information on accessing online documents and obtaining support. This manual is available through CrayDoc; it is not shipped with the release.
- *UNICOS under UNICOS Administrator's Guide*, publication SG-2156 9.0. This guide provides administrators with information for installing, configuring, and running the UNICOS under UNICOS feature, which lets a site run two copies of the UNICOS operating system concurrently on a single Cray Research mainframe. This publication supports all Cray Research systems except the CRAY T90 series, the CRAY J90 series, and the CRAY EL series.
- *CRAY IOS-V Commands Reference Manual*, publication SR-2170 9.0. This manual provides administrators with information about IOS-V commands. This manual contains the printed version of the IOS-V man pages, which reside on a CRAY J90 system console.

- *CRAY IOS-V Messages*, publication SQ-2172 9.0. This publication is for system administrators and operators of CRAY J90 systems. It documents the messages produced by the Cray Research IOS-V on the CRAY J90 series. The document contains procedures for conducting IOS and UNICOS system dumps; procedures for recovering from a root (/) file system crash; definitions of PANIC messages; and definitions of WARNING messages.
- *UNICOS Installation Guide for the CRAY J90 Series*, publication SG-5271 9.0. This manual provides administrators with procedures for installing the CRAY J90 console software and the UNICOS operating system.
- *ONC+ Technology for the UNICOS Operating System*, publication SG-2169 9.0. This manual provides administrators with an overview of ONC+, information about NIS+ (including planning for NIS+ and setting up and administering NIS+), and information about AUTH\_KERB, a new RPC authentication type in ONC+.
- *Asynchronous Transfer Mode (ATM) Administrator's Guide*, publication SG-2193 1.0. This manual describes the Bus Based Gateway (BBG) and VME interfaces used with ATM 1.0 and includes the following sections: network requirements for BBG and VME interfaces; installation for BBG and VME interfaces; and a glossary of terms associated with ATM technology.

### 5.1.1 *Reorganized system administration set*

The system administration documentation formerly contained in *UNICOS System Administration*, publication SG–2113, has been reorganized and is now published in an 8-volume set of manuals. The manuals in the new system administration set and the topics they document are as follows:

- *General UNICOS System Administration*, publication SG–2301 9.0
  - Introduction to system administration
  - File system planning
  - UNICOS startup and shutdown procedures
  - File system maintenance
  - Basic administration tools
  - User database (UDB)
  - Crash and dump analysis
  - UNICOS multilevel security (MLS)
  - Online documentation features
- *UNICOS Resource Administration*, publication SG–2302 9.0
  - Accounting
  - Automated incident reporting (AIR)
  - Fair-share scheduler
  - File system quotas
  - File system space monitoring
  - System activity monitoring
  - Unified Resource Manager (URM)
- *UNICOS Configuration Administrator's Guide*, publication SG–2303 9.0
  - Sections and parameters of the configuration file
  - Run-time configuration files

- *UNICOS Networking Facilities Administrator's Guide*, publication SG-2304 9.0
  - TCP/IP
  - NFS
  - NIS and NIS+
  - Cray-based network monitor
- *UNICOS NQS and NQE Administrator's Guide*, publication SG-2305 9.0
  - NQS
  - NQX (NQE for UNICOS)
- *Kerberos Administrator's Guide*, publication SG-2306 9.0
  - Introduction to Cray Research Kerberos
  - Implementing Kerberos
  - Configuring Kerberos
  - Troubleshooting
- *UNICOS Tape Subsystem Administrator's Guide*, publication SG-2307 9.0
  - Tape administration commands
  - Tape configuration
  - Miscellaneous tape information
  - Tape troubleshooting
- *UNICOS Station Call Processor (USCP) Administrator's Guide*, publication SG-2308 9.0; this publication supports all Cray Research systems except the CRAY J90 series and the CRAY EL series.
  - USCP installation
  - Daily use and operational tips
  - USCP troubleshooting
  - USCP internals
  - Other USCP topics

### 5.1.2 *Renamed and reclassified publications*

The following publications have been renamed. Changes in content related to the renaming are described.

- *UNICOS System Libraries Reference Manual*, publication SR–2080 9.0, formerly titled *UNICOS C Library Reference Manual*. This manual now includes man pages for all system libraries released with UNICOS. In the past, it included only libraries in `libc`.
- *UNICOS System Libraries Ready Reference*, publication SQ–2147 9.0, formerly titled *UNICOS C Library Ready Reference*. This document now includes man page summaries for all system libraries released with UNICOS. In the past, it included only libraries in `libc`.
- *TCP/IP Network User's Guide*, publication SG–2009 9.0, formerly titled *TCP/IP and OSI Network User's Guide*. Information on OSI has been removed from this document.
- *Cray Assembly Language (CAL) for Cray PVP Systems Reference Manual*, publication SR–3108 9.0, formerly titled *CRAY Y-MP Computer System CAL Assembler Version 2 Reference Manual*. Information on the CRAY T90 and CRAY J90 instruction sets has been added.
- *Cray Assembly Language (CAL) for Cray PVP Systems Ready Reference*, publication SQ–3110 9.0, formerly titled *CRAY Y-MP Computer System CAL Assembler Version 2 Ready Reference*. Information on the CRAY T90 and CRAY J90 instruction sets has been added.
- *UNICOS Standard Shell Reference Card*, publication SQ–2115 9.0, formerly titled *UNICOS Korn Shell Reference Card*. The card has been updated to reflect changes made to the shell to comply with the XPG4 standard.
- *Online Maintenance Tools Guide for Cray PVP Systems*, publication SD–1012 9.0, formerly titled *CRAY Y-MP, CRAY X-MP EA, and CRAY X-MP Computer Systems UNICOS Online Diagnostic Maintenance Manual*. Information on CRAY X-MP EA and CRAY X-MP systems has been removed. Information on CRAY T90 systems has been added to the `olhpa(8)` section of this manual.

- *UNICOS Installation / Configuration Menu System User's Guide*, publication SG-2412 9.0, formerly titled *UNICOS Installation Tool Menus and Help Files Reference Manual*. The manual now focuses exclusively on the UNICOS installation tool menu system interface. The sections that reproduced the installation tool menus and help files have been deleted.
- *UNICOS Basic Administration Guide for CRAY J90 Series and CRAY EL Series*, publication SG-2416 9.0, formerly titled *UNICOS Basic Administration Guide for the CRAY EL Series*. Information on administering CRAY J90 systems has been added.

The following online diagnostics publications have been reclassified from proprietary to private. These publications can be ordered by any Cray Research customer with a UNICOS System Software license. The publication prefix has changed from SPM to SD to reflect this change in classification.

- *Online Maintenance Tools Guide for Cray PVP Systems*, publication SD-1012 9.0
- *OLNET Online Diagnostic Network Communications Program Maintenance Manual for UNICOS*, publication SD-1021 9.0; this publication supports all Cray Research systems except the CRAY J90 series and the CRAY EL series.

## 5.2 Publications no longer supporting the UNICOS release package

The following subsections list publications that were previously released with the UNICOS system that are now included in a different software release or are no longer supported.

### 5.2.1 Publications now included in programming environment releases

The following publications were previously released with the UNICOS system but are now included with the programming environment releases (except where noted).

**Note:** These publications have been updated since the UNICOS 8.0 release. If your site is running these products, please make sure that you are using the correct version of the publication for your site's software level.

- *UNICOS Performance Utilities Reference Manual*, publication SR-2040, has been replaced by *Tuning Guide to Parallel Vector Applications*, publication SG-2182.
- *UNICOS Fortran Library Reference Manual*, publication SR-2079, has been split into the following two publications:
  - *Application Programmer's Library Reference Manual*, publication SG-2165, which contains information on the FFIO library routines, most Fortran library routines, Fortran intrinsics, the I/O routines, search routines, and synchronization routines.
  - *UNICOS System Libraries Reference Manual*, publication SR-2080, which contains information on the majority of C routines, and on Fortran sort and multitasking routines. This publication will continue to be released with the UNICOS system and will be available beginning with UNICOS 9.0.
- *UNICOS Fortran Library Ready Reference*, publication SQ-2145, has been split into the following two publications:
  - *Introducing CrayLibs*, publication IN-2167, which can be used as a ready reference for all libraries released with the programming environments.
  - *UNICOS System Libraries Ready Reference*, publication SQ-2147, which contains ready reference information on the majority of C routines and on Fortran sort and multitasking routines. This publication will continue to be released with the UNICOS system and will be available beginning with UNICOS 9.0.
- *I/O User's Guide*, publication SG-3075, and *Advanced I/O User's Guide*, publication SG-3076, have been replaced by *Application Programmer's I/O Guide*, publication SG-2168.



### 5.2.2 *Publications now included in the support system and IOS-E release*

The following publications were previously released with the UNICOS system but are now released with the support system and IOS-E release. See the *Support System and IOS-E Release Overview*, publication RO-5060, for information on ordering these manuals. The following publications support all Cray Research systems except the CRAY J90 series and the CRAY EL series:

- *Support System Reference Manual*, publication SR-3077
- *Support System Operator's Guide*, publication SG-3078
- *Support System Administrator's Guide*, publication SG-3079
- *Support System Ready Reference*, publication SQ-3080
- *Support System and IOS-E Release Overview*, publication RO-5060

### 5.2.3 *Publications no longer supported*

The following publications are no longer supported:

- *The UNICOS Trusted Network Interface Specification*, publication SN-2133
- *UNICOS Index for Man Pages*, publication SR-2049
- *UNICOS Tuning Guide*, publication SR-2099
- *UNICOS Installation and Configuration Tool Reference Manual*, publication SR-3090

## 5.3 Online documentation for UNICOS 9.0

The following types of online information products are available to UNICOS 9.0 release customers:

- CrayDoc, which is a workstation-based electronic documentation reader. For more information, see subsection 5.3.1, page 5-10.

- Man pages, which describe a particular element of the UNICOS operating system or a compatible product. To see a detailed description of a particular command or routine, use the `man(1)` command. For more information, see subsection 5.3.3, page 5–15.
- UNICOS message system, which provides explanations of error messages. To see an explanation of a message, use the `explain(1)` command.
- Cray Research online glossary, which explains the terms used in a manual. To view a definition, use the `define(1)` command.
- Docview text-viewer system, which lets you see the text of a manual online. The Docview system is available on the Cray Research mainframe. To start the Docview system, use the `docview(1)` command on the Cray Research mainframe.

For more information, see subsection 5.3.2, page 5–13.

For detailed information on these topics, see the *User's Guide to Online Information*, publication SG–2143.

### 5.3.1 *CrayDoc*

The following subsections describe the CrayDoc electronic documentation reader and list the UNICOS 9.0 documents available for viewing in CrayDoc.

#### 5.3.1.1 *What is CrayDoc?*

CrayDoc is a workstation-based electronic documentation reader that includes graphics, hypertext links, and quick information retrieval searches. You can use CrayDoc to view documentation at your workstation, to print selected sections of a book, to print an entire book, to print to a PostScript file for viewing by using a PostScript viewer, or to export the Standard Generalized Markup Language (SGML)-tagged information for further filtering or viewing.

CrayDoc is delivered on a CD-ROM disk that contains the reader and the associated documentation.

For more information about CrayDoc, see the following documents:

- *CrayDoc Reference Card*, publication SQ-6101
- *CrayDoc Installation Guide*, publication SG-6103
- *Reader Guide to UNIX* (available online in CrayDoc)
- *User's Guide to Online Information*, publication SG-2143
- `cdoc(1)` man page

#### 5.3.1.2 UNICOS 9.0 release publications distributed through CrayDoc

- *General UNICOS System Administration*, publication SG-2301 9.0
- *UNICOS Resource Administration*, publication SG-2302 9.0
- *UNICOS Configuration Administrator's Guide*, publication SG-2303 9.0
- *UNICOS Networking Facilities Administrator's Guide*, publication SG-2304 9.0
- *UNICOS NQS and NQE Administrator's Guide*, publication SG-2305 9.0
- *Kerberos Administrator's Guide*, publication SG-2306 9.0
- *UNICOS Tape Subsystem Administrator's Guide*, publication SG-2307 9.0
- *UNICOS Station Call Processor (USCP) Administrator's Guide*, publication SG-2308 9.0
- *UNICOS Installation / Configuration Tool User's Guide*, publication SG-2412 9.0
- *UNICOS Message System Programmer's Guide*, publication SG-2121 9.0
- *NQE User's Guide*, publication SG-2148 2.0
- *NQE Administrator's Guide*, publication SG-2150 2.0
- *Introducing NQE*, publication IN-2153 2.0
- *UNICOS under UNICOS Administrator's Guide*, publication SG-2156 9.0

- *Segment Loader (SEGLDR) and 1d Reference Manual*, publication SR-0066 9.0
- *Remote Procedure Call (RPC) Reference Manual*, publication SR-2089 9.0
- *UNICOS X Window System Reference Manual*, publication SR-2101 8.0
- *TCP/IP Network User's Guide*, publication SG-2009 9.0
- *UNICOS Tape Subsystem User's Guide*, publication SG-2051 9.0
- *Network Queuing System (NQS) User's Guide*, publication SG-2105 9.0
- *UNICOS Multilevel Security (MLS) Feature User's Guide*, publication SG-2111 9.0
- *UNICOS System Security Overview for Administrators*, publication SG-2141 9.0
- *FTA User and Administrator Manual*, publication SG-2144 5.0
- *Kerberos User's Guide*, publication SG-2409 9.0
- *User's Guide to Online Information*, publication SG-2143 8.0
- *Online Maintenance Tools Guide for Cray PVP Systems*, publication SD-1012 9.0
- *OLNET Online Diagnostic Network Communications Program Maintenance Manual for UNICOS*, publication SD-1021 9.0.
- *UNICOS Shared File System (SFS) Administrator's Guide*, publication SG-2114 9.0
- *ONC+ Technology for the UNICOS Operating System*, publication SG-2169 9.0
- *Asynchronous Transfer Mode (ATM) Administrator's Guide*, publication SG-2193 9.0
- *Cray Assembly Language (CAL) for Cray PVP Systems Reference Manual*, publication SR-3108
- *UNICOS Visual Interfaces User's Guide*, publication SG-3094 8.0

- *CRAY IOS-V Messages*, publication SQ-2172 9.0†
- *UNICOS Basic Administration Guide for CRAY J90 Series and CRAY EL Series*, publication SG-2416 9.0†
- *Software Overview for Users*, publication SG-2052 9.0†

### 5.3.2 Docview

The Docview program provides online access to a library of printed Cray Research documents and local documents supplied by your site. Use Docview to find information in a publication or publications, or to query available documents for information on a specified topic. You can view the information online, write it to disk, or (in the X Window System version) print a hard copy.

For more information on the Docview utility, see the *User's Guide to Online Information*, publication SG-2143 8.0.

Some UNICOS publications are available in Docview. The `docexec` command builds and maintains the database of documents. Customers can use `docexec(1)` to add their own documentation into the Docview library. The `docexec(1)` utility is documented in *General UNICOS System Administration*, publication SG-2301, "Administration of Online Documentation" section, and on the `docexec(1)` man page.

The following UNICOS publications have been updated in Docview for the UNICOS 9.0 release.

- Note:** The UNICOS 9.0 release is the last release for which documentation will be delivered in Docview format. You will be able to access documents already in Docview format until software support for the UNICOS 9.0 release ends.
- *General UNICOS System Administration*, publication SG-2301 9.0
  - *UNICOS Resource Administration*, publication SG-2302 9.0
  - *UNICOS Configuration Administrator's Guide*, publication SG-2303 9.0

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† These publications will be provided in CrayDoc at the time UNICOS 9.0 is available for CRAY J90 systems.

- *UNICOS Networking Facilities Administrator's Guide*, publication SG-2304 9.0
- *UNICOS NQS and NQE Administrator's Guide*, publication SG-2305 9.0
- *Kerberos Administrator's Guide*, publication SG-2306 9.0
- *UNICOS Tape Subsystem Administrator's Guide*, publication SG-2307 9.0
- *UNICOS Station Call Processor (USCP) Administrator's Guide*, publication SG-2308 9.0
- *UNICOS Installation / Configuration Menu System User's Guide*, publication SG-2412 9.0
- *UNICOS under UNICOS Administrator's Guide*, publication SG-2156 9.0
- *UNICOS Shared File System (SFS) Administrator's Guide*, publication SG-2114 9.0
- *Segment Loader (SEGLDR) and 1d Reference Manual*, publication SR-0066 9.0
- *Remote Procedure Call (RPC) Reference Manual*, publication SR-2089 9.0
- *UNICOS X Window System Reference Manual*, publication SR-2101 8.0
- *TCP/IP Network User's Guide*, publication SG-2009 9.0
- *UNICOS Tape Subsystem User's Guide*, publication SG-2051 9.0
- *Network Queuing System (NQS) User's Guide*, publication SG-2105 9.0
- *UNICOS Multilevel Security (MLS) Feature User's Guide*, publication SG-2111 9.0
- *UNICOS Message System Programmer's Guide*, publication SG-2121 9.0
- *UNICOS System Security Overview for Administrators*, publication SG-2141 9.0
- *User's Guide to Online Information*, publication SG-2143 8.0

- *FTA User and Administrator Manual*, publication SG-2144 5.0
- *Kerberos User's Guide*, publication SG-2409 9.0
- *Front-end Protocol Internal Reference Manual*, publication SM-0042 6.0
- *Trusted UNICOS Trusted Computing Base (TCB) Definition* (available through Docview only)
- *ONC+ Technology for the UNICOS Operating System*, publication SG-2169 9.0
- *Asynchronous Transfer Mode (ATM) Administrator's Guide*, publication SG-2193 9.0
- *Cray Assembly Language (CAL) for Cray PVP Systems Reference Manual*, publication SR-3108 9.0
- *UNICOS Visual Interfaces User's Guide*, publication SG-3094 8.0
- *CRI Software Documentation Map*
- *UNICOS Basic Administration Guide for CRAY J90 Series and CRAY EL Series*, publication SG-2416 9.0†
- *Software Overview for Users*, publication SG-2052 9.0†
- *UNICOS 9.0 Release Overview*, publication RO-5000 9.0†

### 5.3.3 Man pages

Some reference information for the UNICOS system is available with the UNICOS release package as online, pre-formatted files called manual (man) pages. The man pages can be accessed by using the man(1) command.

**Note:** For the UNICOS 9.0 release, Cray Research continues to distribute formatted files (catman files) of the man pages, but nroff/troff source files are no longer orderable. This change follows the trend of other UNIX vendors and reduces support costs.

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† These publications will be provided in Docview in a UNICOS 9.0 update.

The online versions of man pages contain the most current technical information. Updated online man pages are distributed for each UNICOS revision release. The updated printed man pages are available only with UNICOS major releases.

**Note:** The *CRAY EL Series IOS Commands Reference Manual*, publication SR-2408, was not reprinted; only the online version of the man pages are provided with the UNICOS 9.0 release.

The following ready reference documents contain brief man page descriptions and will be shipped with the UNICOS 9.0 release:

- *UNICOS User Commands Ready Reference*, publication SQ-2056 9.0
- *UNICOS Administrator Commands Ready Reference*, publication SQ-2413 9.0
- *UNICOS System Libraries Ready Reference*, publication SQ-2147 9.0

The following printed publications contain man pages:

- *UNICOS User Commands Reference Manual*, publication SR-2011 9.0
- *UNICOS Administrator Commands Reference Manual*, publication SR-2022 9.0
- *CRAY IOS-V Commands Reference Manual*, publication SR-2170 9.0
- *UNICOS File Formats and Special Files Reference Manual*, publication SR-2014 9.0
- *UNICOS System Libraries Reference Manual*, publication SR-2080 9.0
- *UNICOS System Calls Reference Manual*, publication SR-2012 9.0
- *UNICOS Macros and Opdefs Reference Manual*, publication SR-2403 9.0

The UNICOS 9.0 release includes functional indexes in online form. These indexes are accessed by using the man command-line options `-k` and `-i`, respectively. These options search the indexes for keywords and functional descriptions.



Both online and printed man pages include vertical change bars to indicate recent technical changes. In the UNICOS 9.0 release, change bars indicate all technical changes made since the previous printing of the publication.

#### **5.3.4 Release overview distribution**

You can access this release overview electronically; ASCII, PostScript, and Docview files are available on the Cray Research CRInform system, which is an online information and problem-reporting system for Cray Research customers and Cray Research personnel.

For more information on CRInform, see subsection 6.3, page 6–2.

If you do not have access to the CRInform system but would like a copy of the files, contact your Cray Research representative.

For more information on the Docview program, see subsection 5.3.2, page 5–13.

## **5.4 Printed documentation available for the UNICOS release**

The printed documentation listed in the following subsections is available to support the UNICOS 9.0 release.

The core set of printed documentation is included with the UNICOS 9.0 release package. Additional printed documentation for the UNICOS 9.0 release is available for purchase from Cray Research. (This documentation is provided with the release in one or more of the online forms.)

The core set and the additional documents available for purchase are listed in the following subsections.

### **5.4.1 Core set of documentation included with the release package**

The following publications are the core set of documentation included with the UNICOS 9.0 release package. The core set of documentation contains information that is needed by the

administrator or analyst to install or configure the system when it is not convenient to access the man command or an online documentation viewer.

- *UNICOS 9.0 Release Overview*, publication RO-5000 9.0
- The appropriate UNICOS installation guide for your system:
  - *UNICOS Installation Guide*, publication SG-2112 9.0
  - *UNICOS Installation Guide for the CRAY J90 Series*, publication SG-5271 9.0
  - *UNICOS Installation Guide for the CRAY EL Series*, publication SG-5201 9.0
- *UNICOS Installation Menu System Reference Card*, publication SQ-2411 9.0
- *UNICOS Installation / Configuration Menu System User's Guide*, publication SG-2412 9.0
- *General UNICOS System Administration*, publication SG-2301 9.0
- *UNICOS Resource Administration*, publication SG-2302 9.0
- *UNICOS Configuration Administrator's Guide*, publication SG-2303 9.0
- *UNICOS Networking Facilities Administrator's Guide*, publication SG-2304 9.0
- *UNICOS NQS and NQE Administrator's Guide*, publication SG-2305 9.0
- *UNICOS Tape Subsystem Administrator's Guide*, publication SG-2307 9.0
- *UNICOS Administrator Commands Ready Reference*, publication SQ-2413 9.0
- *UNICOS User Commands Ready Reference*, publication SQ-2056 9.0
- *UNICOS System Libraries Ready Reference*, publication SQ-2147 9.0
- *User's Guide to Online Information*, publication SG-2143 8.0

- *Online Maintenance Tools Guide for Cray PVP Systems*, publication SD-1012 9.0
- *OLNET Online Diagnostic Network Communications Program Maintenance Manual for UNICOS*, publication SD-1021 9.0; this publication does not support the CRAY J90 series or the CRAY Y-MP EL series.

CRAY J90 sites also receive the following publications:

- *UNICOS Basic Administration Guide for CRAY J90 Series and CRAY EL Series*, publication SG-2416 9.0
- *CRAY IOS-V Messages*, publication SQ-2172 3/95

CRAY EL sites also receive the following publications:

- *UNICOS Basic Administration Guide for CRAY J90 Series and CRAY EL Series*, publication SG-2416 9.0
- *CRAY EL Series IOS Commands Ready Reference* publication SQ-2162 8.0
- *CRAY EL Series IOS Messages*, publication SQ-2402 8/93

#### **5.4.2 Additional documents available for purchase**

The following printed manuals support the UNICOS 9.0 release, are distributed online in one or more forms, but must be purchased in hardcopy.

- *UNICOS Administrator Commands Reference Manual*, publication SR-2022 9.0
- *UNICOS File Formats and Special Files Reference Manual*, publication SR-2014 9.0
- *UNICOS User Commands Reference Manual*, publication SR-2011 9.0
- *CRAY IOS-V Commands Reference Manual*, publication SR-2170 for the CRAY J90 series
- *CRAY EL Series IOS Commands Reference Manual*, publication SR-2408 8.0

- *Segment Loader (SEGLDR) and 1d Reference Manual*, publication SR-0066 9.0
- *UNICOS System Calls Reference Manual*, publication SR-2012 9.0
- *UNICOS System Libraries Reference Manual*, publication SR-2080 9.0
- *Remote Procedure Call (RPC) Reference Manual*, publication SR-2089 9.0
- *UNICOS X Window System Reference Manual*, publication SR-2101 8.0
- *ONC+ Technology for the UNICOS Operating System*, publication SG-2169 9.0.
- *UNICOS Macros and Opdefs Reference Manual*, publication SR-2403 9.0
- *Cray Assembly Language (CAL) for Cray PVP Systems Reference Manual*, publication SR-3108 9.0
- *Kerberos Administrator's Guide*, publication SG-2306 9.0
- *UNICOS under UNICOS Administrator's Guide*, publication SG-2156 9.0; this publication does not support the CRAY Y-MP EL system or the CRAY EL98 system.
- *UNICOS Shared File System (SFS) Administrator's Guide*, publication SG-2114 9.0
- *Asynchronous Transfer Mode (ATM) Administrator's Guide*, publication SG-2193 1.0
- *UNICOS Station Call Processor (USCP) Administrator's Guide*, publication SG-2308 9.0
- *TCP/IP Network User's Guide*, publication SG-2009 9.0
- *UNICOS Tape Subsystem User's Guide*, publication SG-2051 9.0
- *Network Queuing System (NQS) User's Guide*, publication SG-2105 9.0
- *UNICOS Multilevel Security (MLS) Feature User's Guide*, publication SG-2111 9.0

- *UNICOS Message System Programmer's Guide*, publication SG-2121 9.0
- *UNICOS System Security Overview for Administrators*, publication SG-2141 9.0
- *FTA User and Administrator Manual*, publication SG-2144 5.0
- *Kerberos User's Guide*, publication SG-2409 9.0
- *UNICOS Visual Interfaces User's Guide*, publication SG-3094 8.0
- *Segment Loader (SEGLDR) and ld Ready Reference*, SQ-0303 9.0
- *UNICOS vi Reference Card*, publication SQ-2054
- *UNICOS ed Reference Card*, publication SQ-2055 A
- *UNICOS Environment Variables Ready Reference*, publication SQ-2117 7.0
- *UNICOS nmake Reference Card*, publication SQ-2146 8.0
- *X Window System Resources Ready Reference*, publication SQ-2123 8.0
- *UNICOS Standard Shell Reference Card*, publication SQ-2115 9.0†
- *Software Documentation Ready Reference*, publication SQ-2122 9.0†
- *Front-end Protocol Internal Reference Manual*, publication SM-0042 6.0; this publication does not support CRAY J90 series or CRAY EL series.
- *DCA-2 and DCA-3 Disk Error Recovery Technical Note*, publication SPN-2102 8.0; this publication does not support CRAY J90 series or CRAY EL series.
- *Cray Assembly Language (CAL) for Cray PVP Systems Ready Reference*, publication SQ-3110 9.0
- *Software Overview for Users*, publication SG-2052 9.0†

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† These publications will be available for purchase shortly after the release of UNICOS 9.0.

### 5.4.3 *Publications ordering information*

Publications not included in the core set of materials for the UNICOS 9.0 release can be ordered in the following ways:

- The CRInform online ordering service. The publications order form can be accessed by the following steps from the CRInform home page:
  - Under the heading of **General Service Information**, choose *Publications*.
  - On the *Publications* page, choose [**Order Form**].
- Call the Cray Research Distribution Center in Mendota Heights, MN, using one of the following telephone numbers:
  - 1-800-284-2729, extension 35907
  - +1-612-683-5907
- Fax your order to +1-612-452-0141.
- Send electronic mail to: `orderdsk@sdiv.cray.com`
- Contact your Cray Research representative.