UNICOS Message System Programmer's Guide

SG–2121 9.0

Cray Research, Inc.

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The UNICOS operating system is derived from UNIX® System V. The UNICOS operating system is also based in part on the Fourth Berkeley Software Distribution (BSD) under license from The Regents of the University of California.

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New Features

UNICOS Message System Programmer's Guide SG–2121 9.0

This revision of the UNICOS Message System Programmer's Guide, publication SG–2121, supports the UNICOS 9.0 release.

The following features have been added to the message system since the UNICOS 7.0 release when this manual was last printed. Information related to these features is marked in the text with change bars.

- The `catgen`(8) command was renamed `gencat`(1) to comply with the X/Open XPG4 standard for messages.
- The addition of the `CMDMSG_FORMAT` variable for prescribing the format of UNICOS command messages has been documented.
- The role of the `LC_MESSAGES` locale category in message system processing is discussed.
- The `msgfile` argument to the `caterr`(1) command is now optional. If `msgfile` is not specified, `caterr`(1) accepts input from standard input. This enhancement allows users to more easily convert multiple message text files to one catalog.
- The message system now allows a date and time stamp in the error message output format. To use this capability, use the `%T` field in the `MSG_FORMAT` environment variable.
- The `troff`(1) and `nroff`(1) utilities are part of UNICOS beginning with UNICOS 8.0. Formerly, these utilities were part of the separately orderable DWB product. This change removes the message system dependence on DWB.
- A warning about changing and adding messages on a Trusted UNICOS system was added to section 1.

Record of Revision

The date of printing or software version number is indicated in the footer. Changes in rewrites are noted by revision bars along the margin of the page.

Version	***Description***
6.0	January 1991. Original printing.
7.0	June 1992. Reprint with revision to reflect message system features added in the UNICOS 7.0 release.
8.0	January 1994. Revision to reflect message system features added in the UNICOS 8.0 release. This revision is only distributed online through Docview.
9.0	July 1995. Reprint with revision to reflect messge system features added since the last print.

Preface

This document discusses the UNICOS message system from the perspective of a programmer who wants to issue messages from code by using the message system library routines and message system catalogs. It contains information about how to create message and explanation catalogs and how to retrieve messages from those catalogs from within a program.

This information is useful to programmers using the message system, and to individuals (for example, system administrators) who want to understand the design of the UNICOS message system.

Related publications

For information on the message system from the point of view of the system administrator who is installing, maintaining, and updating message catalogs on a Cray Research system see *General UNICOS System Administration*, publication SG–2301

- For information about using the message system to retrieve message explanations, see the *User's Guide to Online Information*, publication SG–2143.

The *User Publications Catalog*, publication CP–0099, describes the availability and content of all Cray Research hardware and software manuals that are available to customers.

To order a manual, either call the Distribution Center in Mendota Heights, Minnesota, at +1–612–683–5907 or send a facsimile of your request to fax number +1–612–452–0141. Cray Research employees may send electronic mail to `orderdsk` (UNIX system users).

Conventions

The following conventions are used throughout this manual:

Convention	Meaning
`command`	This fixed-space font denotes literal items such as commands, files, routines, path names, signals, messages, and programming language structures.
`manpage(`*x*`)`	Man page section identifiers appear in parentheses after man page names. The following list describes the identifiers: 1 User commands 1B User commands ported from BSD 2 System calls 3 Library routines, macros, and opdefs 4 Devices (special files) 4P Protocols 5 File formats 7 Miscellaneous topics 7D DWB-related information 8 Administrator commands
variable	Italic typeface denotes variable entries and words or concepts being defined.
`user input`	This bold fixed-space font denotes literal items that the user enters in interactive sessions. Output is shown in nonbold, fixed-space font.
[ ]	Brackets enclose optional portions of a command line.

The following machine naming conventions may be used throughout this manual:

Term	Definition
Cray PVP systems	All configurations of Cray parallel vector processing (PVP) systems, including the following: CRAY C90 series (CRAY C916, CRAY C92A, CRAY C94, CRAY C94A, and CRAY C98 systems) CRAY C90D series (CRAY C92AD, CRAY C94D, and CRAY C98D systems) CRAY EL series (CRAY Y-MP EL, CRAY EL92, CRAY EL94, and CRAY EL98 systems) CRAY J90 series (CRAY J916 and CRAY J932 systems) CRAY T90 series (CRAY T94, CRAY T916, and CRAY T932 systems) CRAY Y-MP E series (CRAY Y-MP 2E, CRAY Y-MP 4E, CRAY Y-MP 8E, and CRAY Y-MP 8I systems) CRAY Y-MP M90 series (CRAY Y-MP M92, CRAY Y-MP M94, and CRAY Y-MP M98 systems)
Cray MPP systems	All configurations of Cray massively parallel processing (MPP) systems, including the CRAY T3D series (CRAY T3D MC, CRAY T3D MCA, and CRAY T3D SC systems)
All Cray Research systems	All configurations of Cray PVP and Cray MPP systems that support this release
SPARC systems	All SPARC platforms that run the Solaris operating system version 2.3 or later

The default shell in the UNICOS 9.0 release, referred to in Cray Research documentation as the standard shell, is a version of the Korn shell that conforms to the following standards:

- Institute of Electrical and Electronics Engineers (IEEE) Portable Operating System Interface (POSIX) Standard 1003.2–1992
- X/Open Company Standard XPG4

The UNICOS 9.0 operating system also supports the optional use of the C shell.

The POSIX standard uses *utilities* to refer to executable programs that Cray Research documentation usually refers to as *commands*. Both terms appear in this document.

In this publication, *Cray Research*, *Cray*, and *CRI* refer to Cray Research, Inc. and/or its products.

Online information

The following types of online information products are available to Cray Research customers:

- CrayDoc online documentation reader, which lets you see the text and graphics of a manual online. The CrayDoc reader is available on workstations. To start the CrayDoc reader at your workstation, use the `cdoc`(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.
- 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.
- 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 get a definition, use the `define`(1) command.

- `xhelp` help facility. This online help system is available within tools such as the Program Browser (`xbrowse`) and the MPP Apprentice tool.

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

Reader comments

If you have comments about the technical accuracy, content, or organization of this manual, please tell us. You can contact us in any of the following ways:

- Send us electronic mail from a UNICOS or UNIX system, using the following UUCP address:

  `uunet!cray!publications`

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- Use the postage-paid Reader's Comment Form at the back of the printed manual.

We value your comments and will respond to them promptly.

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