

UNICOS® User Commands
Reference Manual

SR-2011 10.0

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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.

New Features

The *UNICOS User Commands Reference Manual*, Cray Research publication SR-2011, incorporates the following changes for the UNICOS 10.0 release. These changes are new since the UNICOS 9.0 release.

<u>Command</u>	<u>Change</u>
ascheck	New for array session modification of array services.
chacid	Allows users to set the account IDs of symbolic links as well as regular files. A new <code>-h</code> option allows requested operations on symbolic links.
limit	New <code>-d</code> option enables users to disable core file creation.
mvf	New tape filter that handles input, output, and volume switches.
netstat	New options: <ul style="list-style-type: none">• <code>-A</code> causes kernel memory address of route data structures to be printed• <code>-Ar</code> prints kernel memory addresses• <code>-k</code> forces the command to use <code>/usr/kmem</code> to obtain data rather than system calls
quota, quotamon	Updated for optional aggregate quota feature.
rlogin	Two new options: <code>-E</code> , which stops characters from being removed as an escape character, and <code>-L</code> , which allows <code>rlogin</code> to be run in <code>-opost</code> mode.
rsv	New <code>-t</code> option specifies placement of message file.
sm	New <code>-o</code> option used to specify backward compatible PL types for USM.
target	New <code>-s</code> option prints only the machine subtype field.
tplist	New <code>-a</code> option verifies the output from a copy operation.

tpmnt	Enhancements to override special meanings for 1998 and 1999 expiration dates.
tpquery	New command allows you to query an autoloader server program to find out whether one or more volume serial numbers are within the domain of the queried autoloader.
tpstat	New -a option outputs device status from all tape devices, except those with DOWN status. Also, specification of over-committed mount requests is now permitted.

Record of Revision

<i>Version</i>	<i>Description</i>
1.0	March 1986. Documentation supporting the UNICOS 1.0 release running on Cray Research computer systems.
1.1	July 1986. Online documentation supporting the UNICOS 1.0 release running on Cray Research computer systems.
2.0	October 1986. Documentation supporting the UNICOS 2.0 release running on Cray Research computer systems.
3.0	July 1987. Documentation supporting the UNICOS 3.0 release running on Cray Research computer systems.
4.0	July 1988. Documentation supporting the UNICOS 4.0 release running on Cray Research computer systems.
5.0	March 1989. Documentation supporting the UNICOS 5.0 release running on Cray Research computer systems.
5.0	May 1990. This reprint to restock incorporates addendum pages from the <i>UNICOS 5.0 Release Addendum to Software Publications</i> , Cray Research publication SR-2096.
6.0	February 1991. Documentation supporting the UNICOS 6.0 release running on Cray Research computer systems.
7.0	September 1992. Documentation supporting the UNICOS 7.0 release running on Cray Research computer systems.
8.0	February 1994. Documentation supporting the UNICOS 8.0 release running on Cray Research computer systems.

- 9.0 September 1995.
Documentation supporting the UNICOS 9.0 release running on Cray Research computer systems.

- 10.0 November 1997.
Documentation supporting the UNICOS 10.0 release running on Cray Research computer systems. See the New Features section for a description of the new material in this release.

Preface

This publication documents UNICOS release 10.0 running on the following Cray Research systems:

- Systems with an IOS model V (IOS-V)
 - CRAY J90 series
- Systems with an IOS model E (IOS-E)
 - CRAY T90 series with Cray floating-point CPUs
 - CRAY T90 series with IEEE Std. 754 floating-point CPUs
 - CRAY C90 series
- Systems with a GigaRing IOS
 - CRAY T90 series with Cray floating-point CPUs
 - CRAY T90 series with IEEE Std. 754 floating-point CPUs
 - CRAY J90se series
- Cray Research hosts with an IOS-E for CRAY T3D systems
 - Cray C90 series

This publication also supplements the information contained in the other manuals in the UNICOS documentation set.

Related publications

The following man page manuals contain additional information that may be helpful.

Note: For the UNICOS 10.0 release, man page reference manuals may not be ordered in printed book form. Instead, they are available as printable PostScript files provided on the same DynaWeb CD as the rest of the supporting documents for this release. Individual man pages are still available online and can be accessed by using the `man(1)` command.

- *UNICOS System Calls Reference Manual*, Cray Research publication SR-2012

- *UNICOS File Formats and Special Files Reference Manual*, Cray Research publication SR-2014
- *UNICOS Administrator Commands Reference Manual*, Cray Research publication SR-2022
- *UNICOS System Libraries Reference Manual*, Cray Research publication SR-2080

The following ready references are available in printed form from the Distribution Center:

- *UNICOS User Commands Ready Reference*, Cray Research publication SQ-2056
- *UNICOS System Libraries Ready Reference*, Cray Research publication SQ-2147
- *UNICOS System Calls Ready Reference*, Cray Research publication SQ-2215
- *UNICOS Administrator Commands Ready Reference*, Cray Research publication SQ-2413

The following manuals provide additional information about the UNICOS operating system and related subjects.

Introductory manuals:

- *TCP/IP Network User's Guide*, Cray Research publication SG-2009
- *UNICOS Text Editors Primer*, Cray Research publication SG-2050
- *Tape Subsystem User's Guide*, Cray Research publication SG-2051

System administration manuals:

- *General UNICOS System Administration*, Cray Research publication SG-2301
- *I/O Subsystem (IOS) Operator's Guide for UNICOS*, Cray Research publication SG-2005

Reference manuals:

- *Application Programmer's Library Ready Reference*, Cray Research publication SQ-2231
- *CF90 Commands and Directives Reference Manual*, Cray Research publication SR-3901
- *CF90 Ready Reference*, Cray Research publication SQ-3900

- *Cray Assembly Language (CAL) for Cray PVP Systems Reference Manual*, Cray Research publication SR-3108
- *Cray Standard C Reference Manual*, Cray Research publication SR-2074
- *Remote Procedure Call (RPC) Reference Manual*, Cray Research publication SR-2089
- *UNICOS Shells Ready Reference*, Cray Research publication SQ-2116
- *UNICOS Environment Variables Ready Reference*, Cray Research publication SQ-2117
- *UNICOS vi Reference Card*, Cray Research publication SQ-2054
- *UNICOS ed Reference Card*, Cray Research publication SQ-2055

Library reference manuals:

- *Application Programmer's Library Reference Manual*, Cray Research publication SR-2165
- *Scientific Libraries Reference Manual*, Cray Research publication SR-2081
- *Intrinsic Procedures Reference Manual*, Cray Research publication SR-2138

Ordering Cray Research publications

The *User Publications Catalog*, Cray Research publication CP-0099, describes the availability and content of all Cray Research hardware and software documents that are available to customers. Cray Research customers who subscribe to the Cray Inform (CRInform) program can access this information on the CRInform system.

To order a document, 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).

Customers who subscribe to the CRInform program can order software release packages electronically by using the `Order Cray Software` option.

Customers outside of the United States and Canada should contact their local service organization for ordering and documentation information.

Conventions

The following conventions are used throughout this document:

<u>Convention</u>	<u>Meaning</u>																				
<code>command</code>	This fixed-space font denotes literal items such as commands, files, routines, path names, signals, messages, and programming language structures.																				
<code>manpage(x)</code>	Man page section identifiers appear in parentheses after man page names. The following list describes the identifiers: <table><tbody><tr><td>1</td><td>User commands</td></tr><tr><td>1B</td><td>User commands ported from BSD</td></tr><tr><td>2</td><td>System calls</td></tr><tr><td>3</td><td>Library routines, macros, and opdefs</td></tr><tr><td>4</td><td>Devices (special files)</td></tr><tr><td>4P</td><td>Protocols</td></tr><tr><td>5</td><td>File formats</td></tr><tr><td>7</td><td>Miscellaneous topics</td></tr><tr><td>7D</td><td>DWB-related information</td></tr><tr><td>8</td><td>Administrator commands</td></tr></tbody></table> <p>Some internal routines (for example, the <code>_assign_asgcmd_info()</code> routine) do not have man pages associated with them.</p>	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
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<i>variable</i>	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 or directive line.																				

... Ellipses indicate that a preceding element can be repeated.

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

<u>Term</u>	<u>Definition</u>
Cray PVP systems	All configurations of Cray parallel vector processing (PVP) systems.
Cray MPP systems	All configurations of the CRAY T3D series. The UNICOS operating system is not supported on CRAY T3E systems. CRAY T3E systems run the UNICOS/mk operating system.
All Cray Research systems	All configurations of Cray PVP and Cray MPP systems that support this release.

The default shell in the UNICOS and UNICOS/mk operating systems, 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 Portability Guide, Issue 4 (XPG4)

The UNICOS and UNICOS/mk operating systems also support the optional use of the C shell.

Cray UNICOS Version 10.0 is an X/Open Base 95 branded product.

Man page sections

The entries in this document are based on a common format. The following list shows the order of sections in an entry and describes each section. Most entries contain only a subset of these sections.

<u>Section heading</u>	<u>Description</u>
NAME	Specifies the name of the entry and briefly states its function.
SYNOPSIS	Presents the syntax of the entry.

IMPLEMENTATION	Identifies the Cray Research systems to which the entry applies.
STANDARDS	Provides information about the portability of a utility or routine.
DESCRIPTION	Discusses the entry in detail.
NOTES	Presents items of particular importance.
CAUTIONS	Describes actions that can destroy data or produce undesired results.
WARNINGS	Describes actions that can harm people, equipment, or system software.
ENVIRONMENT VARIABLES	Describes predefined shell variables that determine some characteristics of the shell or that affect the behavior of some programs, commands, or utilities.
RETURN VALUES	Describes possible return values that indicate a library or system call executed successfully, or identifies the error condition under which it failed.
EXIT STATUS	Describes possible exit status values that indicate whether the command or utility executed successfully.
MESSAGES	Describes informational, diagnostic, and error messages that may appear. Self-explanatory messages are not listed.
ERRORS	Documents error codes. Applies only to system calls.
FORTRAN EXTENSIONS	Describes how to call a system call from Fortran. Applies only to system calls.
BUGS	Indicates known bugs and deficiencies.
EXAMPLES	Shows examples of usage.
FILES	Lists files that are either part of the entry or are related to it.

SEE ALSO

Lists entries and publications that contain related information.

Reader comments

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