

Segment Loader (SEGLDR™) and ld
Reference Manual

SR-0066 9.0

Copyright © 1983, 1995 Cray Research, Inc. All Rights Reserved. This manual or parts thereof may not be reproduced in any form unless permitted by contract or by written permission of Cray Research, Inc.

Portions of this product may still be in development. The existence of those portions still in development is not a commitment of actual release or support by Cray Research, Inc. Cray Research, Inc. assumes no liability for any damages resulting from attempts to use any functionality or documentation not officially released and supported. If it is released, the final form and the time of official release and start of support is at the discretion of Cray Research, Inc.

Autotasking, CF77, CRAY, Cray Ada, CraySoft, CRAY Y-MP, CRAY-1, HSX, MPP Apprentice, SSD, UniChem, UNICOS, and X-MP EA are federally registered trademarks and Because no workstation is an island, CCI, CCMT, CF90, CFT, CFT2, CFT77, ConCurrent Maintenance Tools, COS, Cray Animation Theater, CRAY C90, CRAY C90D, Cray C++ Compiling System, CrayDoc, CRAY EL, CRAY J90, Cray NQS, Cray/REELlibrarian, CRAY T90, CRAY T3D, CrayTutor, CRAY X-MP, CRAY XMS, CRAY-2, CRInform, CRI/*Turbo*Kiva, CSIM, CVT, Delivering the power . . . , DGauss, Docview, EMDS, HEXAR, IOS, LibSci, ND Series Network Disk Array, Network Queuing Environment, Network Queuing Tools, OLNETH, RQS, SEGLDR, SMARTE, SUPERCLUSTER, SUPERLINK, System Maintenance and Remote Testing Environment, Trusted UNICOS, and UNICOS MAX are trademarks of Cray Research, Inc.

UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company Limited.

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.

Requests for copies of Cray Research, Inc. publications should be sent to the following address:

Cray Research, Inc.
Distribution Center
2360 Pilot Knob Road
Mendota Heights, MN 55120
USA

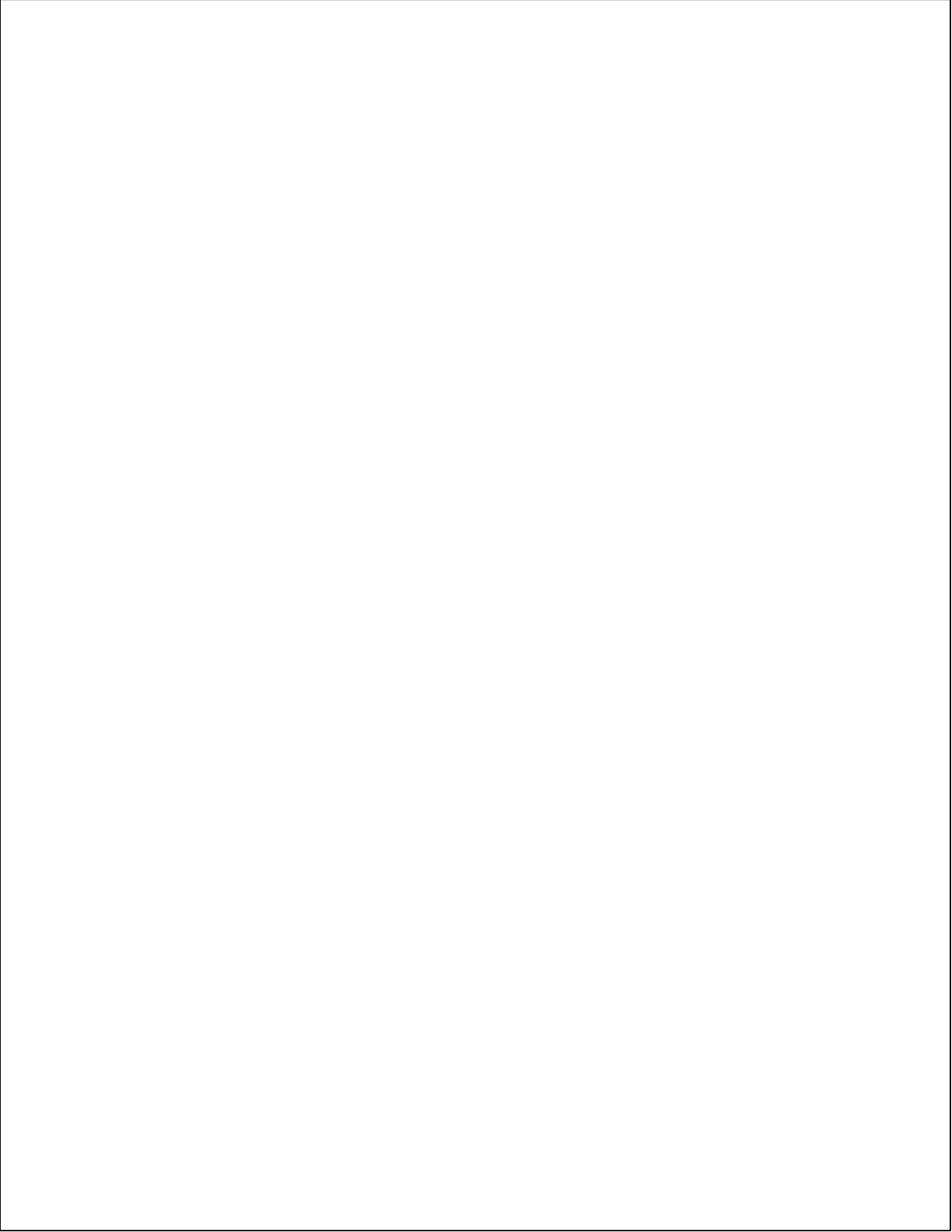
Order desk +1-612-683-5907
Fax number +1-612-452-0141

New Features

Segment Loader (SEGLDR) and 1d Reference Manual

SR-0066 9.0

The 9.0 version of this manual removes references to CRAY-2 and CRAY X-MP systems. No new technical information has been added. In addition, the information on the massively parallel processing (MPP) system loader (MPPLDR) has been removed and is now located in the *Cray MPP Loader User's Guide*, publication SG-2514.



Cray Research Software Documentation Map

The illustration on the following pages highlights the major body of documentation available for Cray Research (CRI) customers. The illustration is organized into categories by audience designation:

<u>Audience</u>	<u>Description</u>
End users	Those who use the UNICOS operating system, products, applications, or networking software
Application and system programmers	Those who write or modify system or application code on a CRI system for the purpose of solving computer system, scientific, or engineering problems
System administrators	Those who perform system administration tasks, such as installation, configuration, and basic troubleshooting
System analysts	Those who perform advanced troubleshooting, tuning, and customization
Operators	Those who perform operational functions, such as performing system dumps, and those who administer an operator workstation

To use the map, find the audience designation closest to your specific needs or role as a CRI system user. Note that manuals under other audiences may also be of interest to you; manuals are listed only once, underneath the audience to which they most directly apply. Some manual titles are abbreviated. The date in the map's footer tells you when the information was last revised.

For more information

In addition to the illustration, you can use the following publications to find documentation specific to your needs:

- *Software Documentation Ready Reference*, publication SQ-2122, serves as a general index to the CRI documentation set. The booklet lists documents and man pages according to topic.
- *Software Overview for Users*, publication SG-2052, introduces the UNICOS operating system, its features, and its related products. It directs you to documentation containing user-level information.
- *User Publications Catalog*, publication CP-0099, briefly describes all CRI manuals available to you, including some not shown on the map, such as training workbooks and other supplementary documentation.

Ordering

To obtain CRI publications, order them by publication number from the Distribution Center:

Cray Research, Inc.
Distribution Center
2360 Pilot Knob Road
Mendota Heights, MN 55120
USA

Order desk (612) 683-5907
Fax number (612) 452-0141

END USERS

Introductory

Software Overview for Users (SG-2052)●★

User's Guide to Online Information (SG-2143)●★

General

Software Documentation Ready Reference (SQ-2122)★

User Commands Reference (SR-2011)▲

User Commands Ready Reference (SQ-2056)▲

Korn Shell Ready Reference (SQ-2115)

UNICOS Shells Ready Reference (SQ-2116)

UNICOS Environment Variables Ready Reference (SQ-2117)

UNICOS Index for Man Pages (SR-2049)

Visual Interfaces Guide (SG-3094)●★

Tape Subsystem Guide (SG-2051)●★

Security (MLS) Guide (SG-2111)●

MPP Software Guide (SG-2508)●★

CRL

CRL User's Guide (SG-2126)★

Networking

NQS Guide (SG-2105)●★

TCP/IP and OSI Network Guide (SG-2009)●★

FTA Guide (SG-2144)●★

Text Editing

Text Editors Primer (SG-2050)

vi Reference Card (SQ-2054)

ed Reference Card (SQ-2055)

MVS Link

RQS User's Guide (SG-2405)

UNIX Link

NQE User's Guide (SG-2148)●

NQE Ready Reference (SQ-2149)●

Introducing NQE (IN-2153)●

VAX/VMS Link

RQS User's Guide (SV-3151)

- Available online with CrayDoc
- ★ Available online with Docview
- ▲ Man pages available with the `man` command

APPLICATION AND SYSTEM PROGRAMMERS

Ada

Cray Ada Reference (SR-3014)★
Cray Ada Programming Guide (SR-3082)★

C

Cray Standard C Reference (SR-2074)●★
Cray Standard C Ready Reference (SQ-2076)
Cray Standard C for MPP (SR-2506)●★

CAL for CRAY Y-MP and CRAY Y-MP C90

Reference (SR-3108)●
Symbolic Machine Instructions (SR-3109)

Ready Reference (SQ-3110)
UNICOS Macros and Opdefs (SR-2403)▲

Cray Assembler for MPP

CAM Reference (SR-2510)●★

FORTRAN 77

CF77 Ready Reference (SQ-3770)

CF77 Commands and Directives (SG-3771)●★

CF77 Fortran Reference (SR-3772)●★

CF77 Optimization Guide (SG-3773)★

CF77 Message Manual (SR-3774)

Cray MPP Fortran Reference (SR-2504)●★

Fortran 90

CF90 Commands and Directives (SR-3901)●★

CF90 Fortran Language Reference (SR-3902)●★

CF90 Ready Reference (SQ-3900)

Introducing CF90 SPARC Prog. Env. (IN-2155)●

Introducing DPE (IN-2163)●

Libraries

System Libraries (SR-2080)▲
System Libraries Ready Ref. (SQ-2147)▲
Scientific Libraries (SR-2081)▲
Math Library (SR-2138)▲
Application Programmer's I/O Guide (SG-2168)▲
Application Programmer Library Ref. Manual (SG-2165)▲
Introducing CrayLibs (IN-2167)●
PVM and HeNCE Ref. (SR-2501)●★

PVM Reference Card (SQ-2512)

Loaders

Loader Reference (SR-0066)●★
SEGLDR Ready Reference (SQ-0303)

Loader for MPP

Cray MPP Loader Guide (SG-2514)●

Networking

RPC Reference (SR-2089)●★
Kerberos User's Guide (SG-2409)●★

Programming Tools

UNICOS Message System Programmer's Guide (SG-2121)●★

Compiler Information File (CIF) Reference (SR-2401)●★

CDBX Debugger Reference (SR-2091)●★

CDBX Debugger User's Guide (SG-2094)●★

CDBX Reference Card (SQ-2110)

Program Browser (xbrowse) (IN-2140)●

Tuning Guide to Parallel Vector Applications (SG-2182)●

MPP Apprentice Tool (IN-2511)●

Introducing Cray TotalView Debugger (IN-2502)●

Simulators

Cray MPP Simulator Guide (SG-2503)●

Source Control

USM User's Guide (SG-2097)●★

System Calls

System Calls (SR-2012)▲

X Window System

Reference (SR-2101)●★
Ready Reference (SQ-2123)

OPERATORS

OWS-E/IOS-E

OWS-E/IOS-E Reference (SR-3077)▲
OWS-E/IOS-E Ready Reference (SQ-3080)
OWS-E/IOS-E Operator's Guide (SG-3078)
OWS-E/IOS-E Administrator's Guide (SG-3079)

- Available online with CrayDoc
- ★ Available online with Docview
- ▲ Man pages available with the man command

SYSTEM ADMINISTRATORS AND ANALYSTS

UNICOS

UNICOS Installation Guide (SG-2112)
Installation Ref. Card (SQ-2411)
UNICOS Installation Tool Menus and Help Files (SG-2412)
UNICOS System Administration (SG-2113)●★
Administrator Commands Reference (SR-2022)▲
Administrator Commands Ready Ref. (SQ-2413)▲

CRL

CRL Administrator's Guide (SG-2127)★

DMF

DMF Administrator's Guide (SG-2135)★

Security and Licensing

UNICOS System Security Overview (SG-2141)★

FLEXIm Guide (SG-2181)●★

UNICOS under UNICOS

UuU Administrator's Guide (SG-2156)●★

CRAY EL Series

IOS Commands Reference (SR-2408)▲

IOS Commands Ready Ref. (SQ-2162)

UNICOS Basic Administration Guide (SG-2416)●★

UNICOS Installation Guide for CRAY Y-MP EL Systems (SG-5201)

IOS Messages (SQ-2402)

Networking

Network Driver Administrator's Guide (SG-2132)

MPP

CRAY T3D Administrator's Guide (SG-2507)●

MVS Link

RQS Administrator's Guide (SG-2406)

VAX/VMS Link

RQS Administrator's Guide (SV-3152)

UNIX Link

RQS Administrator's Guide (SG-2120)

NQE Administration (SG-2150)●

NQE Installation (SG-5236)●

Analysts

File Formats and Special Files Reference (SR-2014)▲

Data Migration MSP Writer's Guide (SN-2098)★

UNICOS Tuning Guide (SR-2099)●

UNICOS *nmake* Card (SQ-2146)

Installation and Configuration Tool Reference (SR-3090)

USCP

Front-end Protocol Internals (SM-0042)★

USCP Optimization (SN-2103)

- Available online with CrayDoc
- ★ Available online with Docview
- ▲ Man pages available with the `man` command

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
	September 1983. Original printing.
01	December 1983. This change packet brings the manual into agreement with version 1.13 of the Cray operating system COS. New material includes the ALIGN, HEAP, and STACK directives and related error messages.
A	November 1984. This reprint with revision brings the manual into agreement with version 1.14 of COS. New material includes the MLEVEL, LOWHEAP, and SID directives and related error messages. This reprint obsoletes all previous versions.
B	February 1986. This rewrite brings the manual into agreement with SEGLDR release 2.0 running under COS 1.15 and SEGLDR release 2.1 running under UNICOS 1.0. New material includes the NOECHO and TRIAL directives and related error messages. The manual has been reorganized: appendixes A, B, and C have become sections 8, 9, and 10, respectively; most of the directives in section 4 have been moved to section 3. This rewrite obsoletes all previous versions.
C	September 1986. This reprint with revision brings the manual into agreement with SEGLDR release 3.1 running under COS version 1.16 and SEGLDR release 3.0 running under UNICOS version 2.0. New error messages have been added, obsolete ones have been removed, and the -v option has been added to the UNICOS <code>segldr</code> command line. Change bars in the left margin indicate technical changes. All trademarks are now documented in the record of revision. This reprint obsoletes all previous versions.
D	June 1987. This reprint with revision brings the manual into agreement with SEGLDR release 4.0 running under UNICOS version 3.0. SEGLDR has a new option to its split directive and a new pair of directives for defining program calling sequences.

Version	Description
E	June 1988. This rewrite brings the manual into agreement with SEGLDR version 5.0, supporting the 4.0 release of UNICOS and the 1.17 release of COS. The UNICOS command line has 19 new options, and the COS control statement has 25 new parameters. Four new directives have been added, and parameters available to 6 existing directives have changed.
F	February 1989. This rewrite updates the manual to document SEGLDR version 5.1, supporting the 5.0 release of UNICOS. Additionally, the title of the manual has changed to reflect the fact that it now documents the UNICOS 1d(1) command, which is an interface to the segment loader. SEGLDR 5.1 supports segmented programs on CRAY-2 systems. The UNICOS command line has two new options; four new directives have been added; and parameters for the ORDER directive have changed.
6.0	December 1990. This reprint with revision updates the manual to document SEGLDR version 6.0, supporting the UNICOS 6.0 release. COS support has been removed from SEGLDR version 6.0.
7.0	April 1992. This reprint with revision updates the manual to document SEGLDR version 7.0, supporting the UNICOS 7.0 release. For detailed descriptions of changes to SEGLDR and this manual, see the New Features page.
8.0	November 1993. This rewrite updates the manual to document SEGLDR version 8.0, supporting the UNICOS 8.0 release and the MPP system 1.0 release. For detailed descriptions of changes to SEGLDR and this manual, see the New Features page.
9.0	July 1995. This reprint removes references to CRAY-2 and CRAY X-MP, and the information related to the MPP loader.