

Software Publications Documentation and Delivery

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Software Documentation

- **Delivery methods**
 - Current
 - Future
- **Deliverables**
 - Cray SuperCluster system
 - Cray MTA system
 - Cray SV2 system
 - Cray T90, Cray T3E, Cray J90, and Cray SV1 systems
 - NEC systems



Current Documentation Delivery Mechanisms

- **Manuals**
 - Printed (subset)
 - Online browseable (on CD and public web site)
 - PDF and/or PostScript files (on CD and public web site)
- **Man pages**
- **Product help systems**



We currently deliver documentation in many forms, including manuals, man pages, and product help systems.

Manuals are delivered in both printed and online forms. Online manuals are delivered in online browseable and PDF and/or PostScript formats, both on CD and on the Cray public web site.

Printed Manuals

- **Nearly all manuals are available in print**
 - Receive core set of installation and configuration documentation
 - Release overviews contain list of available documentation
- **To order additional printed manuals, call Cray Distribution Center at 651.605.9100 or contact service rep.**
- **To print manuals yourself, go to <http://www.cray.com/swpubs/>**



Nearly all manuals are available in printed and bound form. You automatically receive a core set of documentation in printed form with a software release. The core set includes the following types of information:

- Release overview or letter
- Installation and upgrade documentation
- System configuration documentation

The release overviews contain a list of documentation that's available with a release.

To order printed copies of documentation, contact the Cray Software Distribution Center in any of the following ways:

- Email: orderdisk@cray.com
- Web: <http://www.cray.com/swpubs/> (Click on the Download Request Form link.)
- Telephone (inside U.S., Canada): 1-800-284-2729 (BUG CRAY), then 605-9100.
- Telephone (outside U.S., Canada): Contact your account or service representative, or call +1-651-605-9100
- Fax: +1-651-605-9001
- Mail: Software Distribution Center, Cray Inc., 1340 Mendota Heights Road, Mendota Heights, MN 55120-1128 USA

Cray Online Library Delivery

- **Public web site at**
<http://www.cray.com/swpubs/>
- **CD-ROM for those sites unable to
access public web sites**



Nearly all manuals are available in online browseable and searchable form. The UNICOS and UNICOS/mk manuals are currently not available in the Cray Online Library, due to legal restrictions. The release overviews for UNICOS and UNICOS/mk, however, are available.

We also deliver the Cray Online Library on CD-ROM, which is particularly helpful for those sites unable to access public web sites.

Current CD-ROM Delivery of Cray Online Library

- **SGML source**
- **Based on DynaWeb product**
- **Installed as documentation server on IBM, HP, SGI, and Sun systems**
- **Viewed using any web browser**
- **Browseable and searchable**
- **Includes PDF and/or PostScript files**



When you order software you also receive a CD containing the documentation for that software. Currently, this CD contains the documentation source (SGML) files and a software product called DynaWeb, which converts the SGML to HTML on the fly; and provides web server, search tool, and installation and configuration software for the documentation. The DynaWeb software allows you to install your own documentation server and access it from any platform that supports a common web browser. DynaWeb is supported on IBM, HP, SGI, and Sun platforms.

The documentation CD also contains PostScript and/or PDF versions of most manuals and the DynaWeb installation tool supports the installation of these files.

Problems with Current Online Library (CD-ROM Delivery)

- **Can't search both man pages and manuals at once**
- **Requires specific server hardware**
- **Delivers SGML source, not HTML**



We've known for some time that our current online documentation delivery does not meet everyone's needs.

From a user standpoint, the search mechanism does not allow you to search both man pages and manuals at the same time. That is, should you be so inclined to find all instances of "UNICOS" in our documentation you would not be able to search the man pages with the DynaWeb search mechanism and would only come up with the instances of UNICOS that occur in the manuals.

From an administrative standpoint, requiring specific server hardware for the tool is a problem for some since their site does not have any of the supported hardware available for a documentation server.

And since SGML source is converted to HTML on the fly and the HTML files are not saved it's less flexible.

We've been aware of these problems but unable to do anything about them for various reasons, including resource constraints. Now, however, we're working on a replacement for DynaWeb.

Current Web Delivery of Cray Online Publications Library

- **Until two weeks ago, the same as CD-ROM delivery of library**
- **<http://www.cray.com/swpubs/> temporarily contains only PostScript and PDF versions of manuals and a search mechanism; no HTML to browse**



Before getting into discussing a DynaWeb replacement I'd like to talk a little bit about the web delivery of our online library. Up until two weeks ago, our web site used DynaWeb in the same way customers did – we built a documentation server using all the software we usually send out to customers. Unfortunately, we've had some hardware problems (the SGI server crashed) and we've chosen this time to move everything on the server to a Sun platform.

While this is not a problem technically since DynaWeb also runs on Sun platforms, it is a timing and resource issue. We had done quite a bit of site-specific configuration that would have to be done again to reinstall the DynaWeb software and all the manuals on the new server. This would take quite a bit of time to do, meaning the server would be unavailable for quite a while. Also, the person that would need to install and reconfigure DynaWeb was the same person that was researching and creating the DynaWeb replacement. Was it worth it to put a lot of time into a tool that we were working to get rid of? And taking the time away from development of the new tool?

In the end, I decided to get the web site up as quickly as possible and put as little work as possible into DynaWeb. This meant that within a couple of days we were able to get PostScript and PDF versions of the manuals available on the site with a search mechanism. Unfortunately, there is no HTML to browse, though you can browse the PostScript and PDF files with Ghostview or Acrobat Reader. While this is a temporary situation it may be several months before we can get browseable HTML back on the site. If this is going to be a problem please let me know and I can change our priorities and get HTML back on the site sooner.

One of the benefits of doing things this way is that it will allow us to test out some of our plans for our DynaWeb replacement. The search engine that's out there now is one we're considering using, for example.

Future Online Publications Library Similarities

- Still to be available at <http://www.cray.com/swpubs/>
- Still to be delivered on CD-ROM
- Still able to be viewed using any web browser
- Still able to be browsed and searched
- Still to include PDF files



Now that I've talked a little about the DynaWeb replacement I want to make sure and outline the things we will NOT be changing. The online library (both on the web and on CD-ROM) will still have the following characteristics:

- Available at <http://www.cray.com/swpubs/>
- Delivered on CD-ROM
- Able to view using any web browser
- Able to be browsed and searched
- Contain PDF files of most manuals

Future Online Publications Library Differences

- **No longer based on DynaWeb product**
 - No restrictions on the hardware on which the documentation server can be installed
 - Delivering HTML files instead of SGML
- **Moving away from PostScript files; delivery of PDF and HTML only**
- **Ability to search man pages and manuals from single interface**



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Our current plans for the future Online Publications Library include the following differences:

- The library will no longer be based on the DynaWeb product; therefore, there will be no restrictions on the hardware on which the documentation can be installed and we will be delivering HTML files instead of SGML files, allowing you more flexibility if you'd like to put the manuals in a location of your own choosing.
- We will be moving away from delivering PostScript files and will be delivering PDF and HTML files only.
- Users will have the ability to search man pages and manuals from a single interface.

Goals for Delivery of New Online Library

- **Delivery of library: 1Q02**
- **Cray SV2 man pages into library: first complete release of Cray SV2 software**



While it is a bit soon to set a delivery date, our current plan is to begin delivering the new library on CD by 1Q02. The public web site will contain the new tools sooner. We also plan to begin delivering Cray SV2 man pages in the library by the time we have the first complete release of Cray SV2 software. At that time, you will be able to search man pages along with other Cray documentation.

Documentation Deliverables

- Cray SuperCluster systems
- Cray MTA systems
- Cray SV2 systems
- Won't be discussing:
 - Cray T90, Cray T3E, Cray J90, and Cray SV1 systems
 - NEC systems



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When you talk about documentation you not only have to discuss how it's delivered but what is delivered. The Cray Software Publications group is responsible for documenting Cray software products on the following systems:

- Cray T90, Cray T3E, Cray J90, and Cray SV1 systems
- Cray SuperCluster systems
- Cray MTA systems
- Cray SV2 systems

Today I won't be discussing the Cray T90, Cray T3E, Cray J90, or Cray SV1 systems since if you have those systems you already know what documentation you receive!

And I won't discuss the NEC documentation, either, since the anti-dumping order was just lifted and we haven't yet had time to look closely at how we'll be delivering that documentation.

Cray SuperCluster Documentation

- **Software documentation from other vendors (Red Hat, Compaq, etc.)**
- **Written by Cray writers:**
 - Release Overview and Installation and Configuration Guides for all software
 - Operator workstation documentation
 - OS General and Resource Administration documentation
 - Overview of Programming Environment
 - Cray MPT documentation



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For the first ship of the Cray SuperCluster system, much of the software documentation will be passed through from other vendors. For example, we will provide the Compaq compiler documentation and the Red Hat documentation.

We will, however, be writing the following documentation:

- Release Overview and Installation and Configuration Guides for all software
- Operator workstation documentation
- OS General and Resource Administration documentation
- Overview of Programming Environment
- Cray MPT documentation

Cray MTA Documentation

- **Release Overviews and Installation Guides for all software**
- **System Administration Guide**
- **User's Guide**
- **Programming Guide, Performance Programming Tools Guide, Debugger Guide, and Optimization and Debugging Guide**
- **Test Environment User's Guide**
- **Assembler Manual**



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Documentation for the Cray MTA systems includes:

- Release Overviews and Installation Guides for all software
- System Administration Guide
- User's Guide
- Programming Guide, Performance Programming Tools Guide, Debugger Guide, and Optimization and Debugging Guide
- Test Environment User's Guide
- Assembler Manual

Cray SV2 Documentation Plans

- **Hardware and Software Overview manuals**
- **Migration Guides for administrators and for programmers**
- **Release Overviews and Installation Guides for each software product**



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For the first ship of the Cray SV2 system the following documentation will be available:

- Hardware and Software Overview manuals
- Migration Guides for administrators and for programmers (from UNICOS and UNICOS/mk systems). A draft of these manuals will actually be available 6 months prior to the first customer ship of the Cray SV2. Many of us here actually have copies of the outlines for these guides with us at CUG. See Don Mason, Janet Lebens, Krys Supplee, Lynn Sayles, or me if you're interested.
- Release Overviews and Installation Guides for each software product.

Cray SV2 OS and CWS Documentation Plans

- OS Configuration Guide
- OS Administration Guide
- OS Resource Administration Guide
- OS System Debugger Guide
- I/O Functional Overview
- CWS Operating System and Devices Installation Guide
- CWS Administration Guide



Cray SV2 PE Documentation Plans

- Performance Analysis and Optimization Guide
- Fortran Commands and Directives Guide
- Fortran Language Reference Manual (volumes 1-3)
- Cray C/C++ Reference Manual
- Debugger Guide
- Application Programmer's I/O Guide
- Cray Assembly Language



Cray SV2 Man Pages

- **Thousands of man pages!**
 - User and Administrator Commands
 - User Libraries
 - System calls/libraries
 - Compilers, debugger, performance tool
 - Applications and Scientific Libraries
 - MPI, MPI library, shmem
- **First time manuals and man pages to be viewable/searchable through same interface**



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input!***

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You and other Cray users at your site are the folks we want to please. If you find our delivery methods difficult to use or our documentation hard to understand please let us know! You can e-mail me at ljm@cray.com, or call me at 651.605.9032. You can also send e-mail to swpubs@cray.com