

CRAY

New Documentation Portal
Peggy Sanchez





Definitions

- **CCMS – Component Content Management System**
- **DITA – Darwin Information Typing Architecture**
- **Topic Based Writing – stand alone content**
- **Single Source – write once and reuse**
- **The users- developers, admins, programmers, people interested in technical documentation for Cray machines**
- **CrayPort ≠ CrayDocs**

Where We Started

- Joined team in 2013



Where We Started

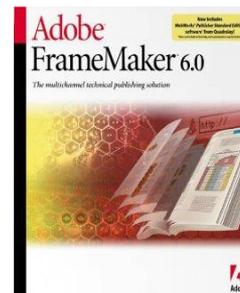
- Joined team in 2013
- 16 members



Where We Started



- Joined team in 2013
- 16 members
- 5 authoring tools



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Arbortext®

Where We Started

- Joined team in 2013
- 16 members
- 5 authoring tools
- Homegrown customization



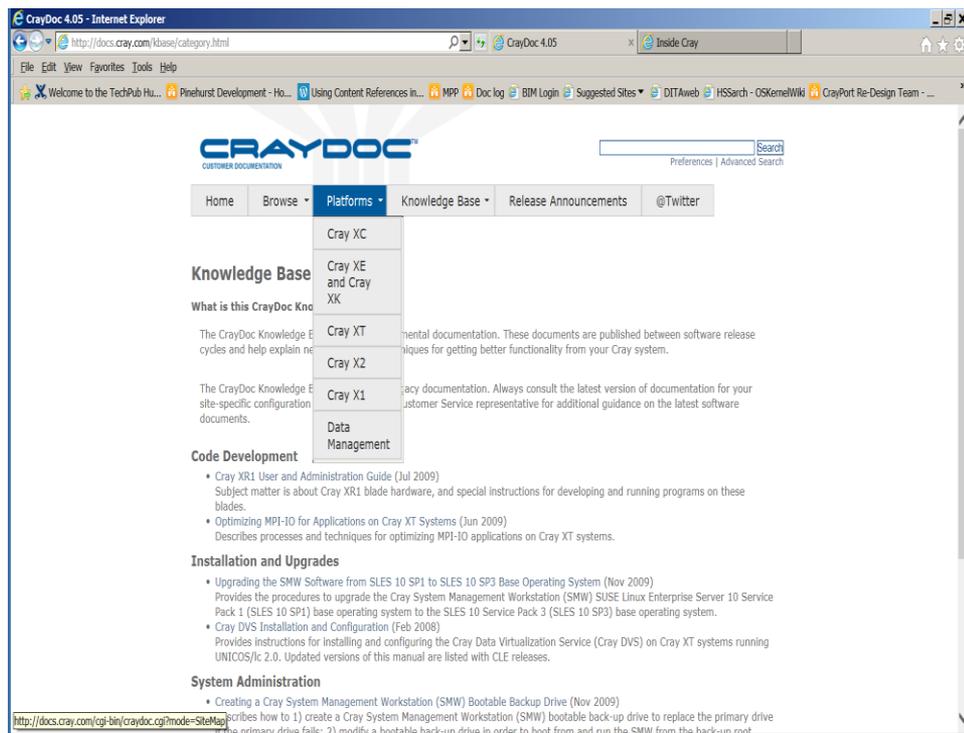
Where We Started

- Joined team in 2013
- 16 members
- 5 authoring tools
- Homegrown custom
- Researched building



Problems to Solve

- Outdated Portal



Problems to Solve

- Outdated Portal
- Delivering outdated format --pdfs -- these are just books online



Problems to Solve

- Outdated Portal
- Delivering outdated format --pdfs -- these are just books online
- Non-intuitive expectations



Problems to Solve

- Outdated Portal
- Delivering outdated format --pdfs -- these are just books online
- Non-intuitive expectations
- Publishing cycle was a complicated process

Problems to Solve

- Outdated Portal
- Delivering outdated format --pdfs -- these are just books online
- Non-intuitive expectations
- Publishing cycle was a complicated process
- Publishing failures often required more than one person to fix



1 Problem to Solve

Users were not satisfied

Team Preparations

- Rebuild Our Infrastructure



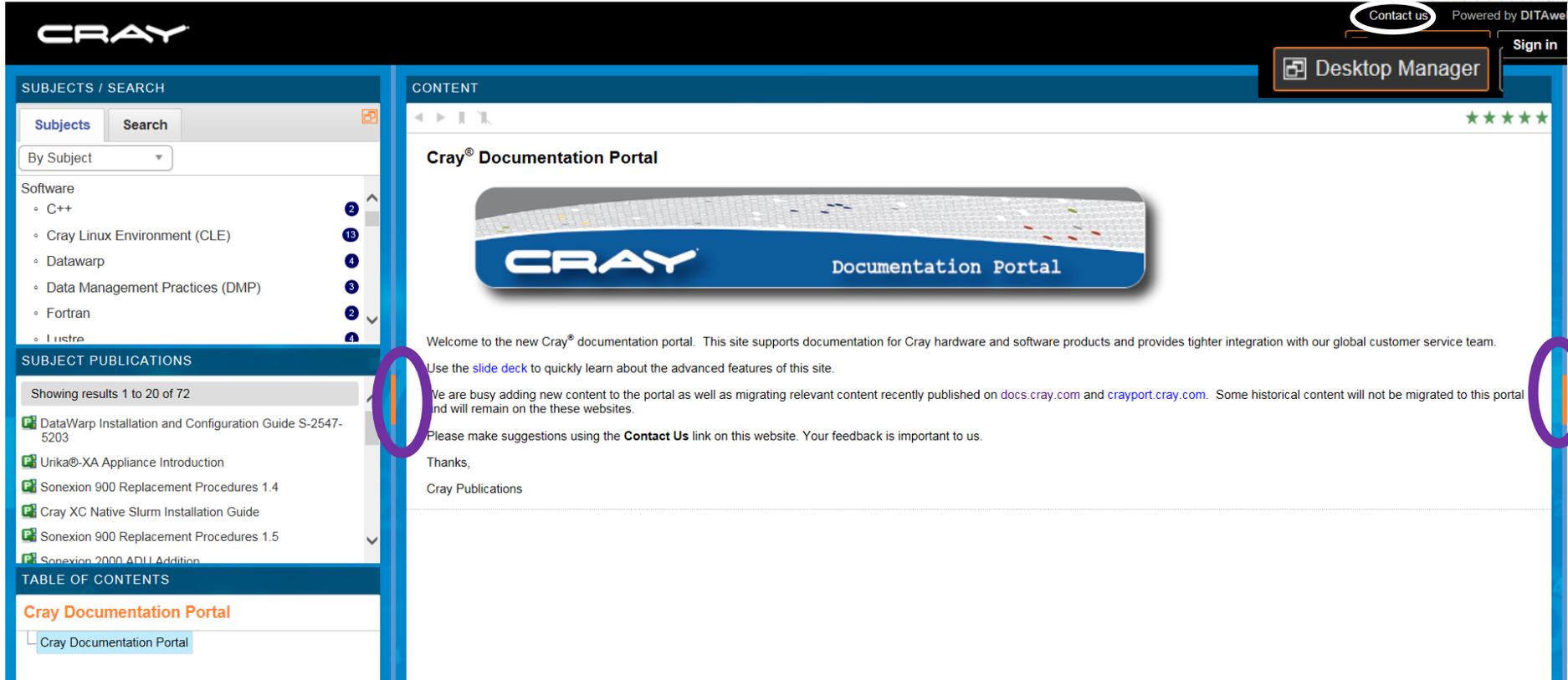
Team Preparations

- Rebuild Our Infrastructure
- Extensive training



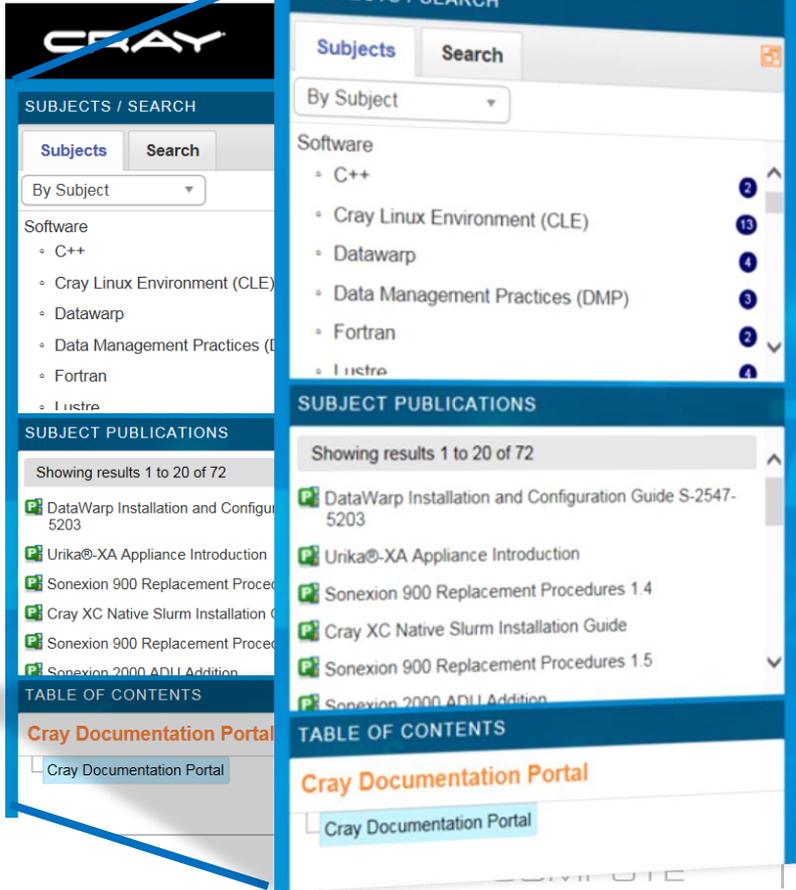
Departmental Changes

- **Hired additional writers**
- **Extensive training**
- **Changed writing style**
 - Descriptive headings
 - Titles of documents are specific
 - Documents have been reorganized
 - Content where needed
 - Metadata for searching and organization
 - Increased reuse



The screenshot shows the Cray Documentation Portal interface. At the top right, there are links for "Contact us" and "Powered by DITAWeaver", along with a "Sign in" button. A "Desktop Manager" icon is also present. The left sidebar contains a "SUBJECTS / SEARCH" section with a search bar and a list of software categories: C++ (2 items), Cray Linux Environment (CLE) (13 items), Datawarp (4 items), Data Management Practices (DMP) (3 items), Fortran (2 items), and Lustre (4 items). Below this is a "SUBJECT PUBLICATIONS" section showing results 1 to 20 of 72, with a list of documents including "DataWarp Installation and Configuration Guide S-2547-5203", "Urika®-XA Appliance Introduction", "Sonexion 900 Replacement Procedures 1.4", "Cray XC Native Sturm Installation Guide", "Sonexion 900 Replacement Procedures 1.5", and "Sonexion 2000 ADU Addition". A "TABLE OF CONTENTS" section is also visible, listing "Cray Documentation Portal". The main content area is titled "Cray® Documentation Portal" and features a large banner with the Cray logo and "Documentation Portal" text. Below the banner, there is a welcome message and a slide deck link. The page is marked with a "5 star" rating in the top right corner. Two purple circles highlight the "Contact Us" link in the top right and a vertical orange bar in the left sidebar.

Portal



SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

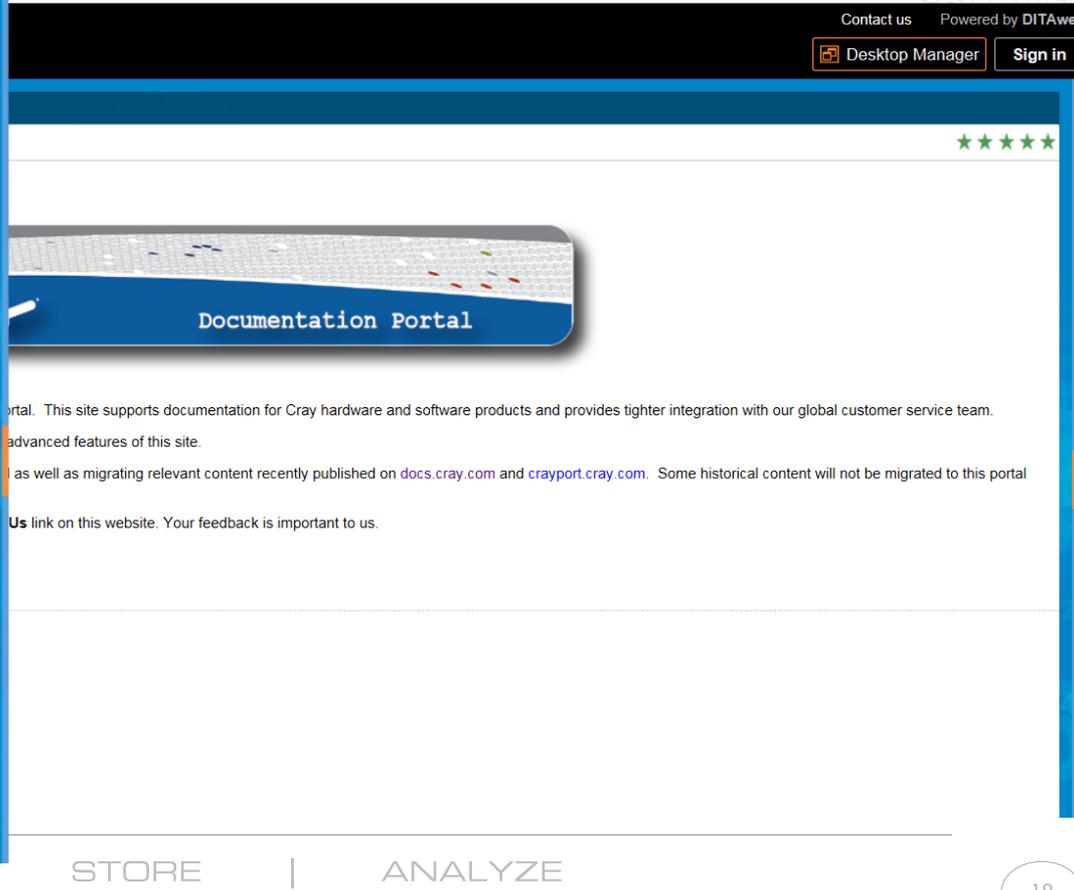
SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
- Unika®-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Slurm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

TABLE OF CONTENTS

- Cray Documentation Portal



Contact us Powered by DITAwe

Desktop Manager Sign in

Documentation Portal

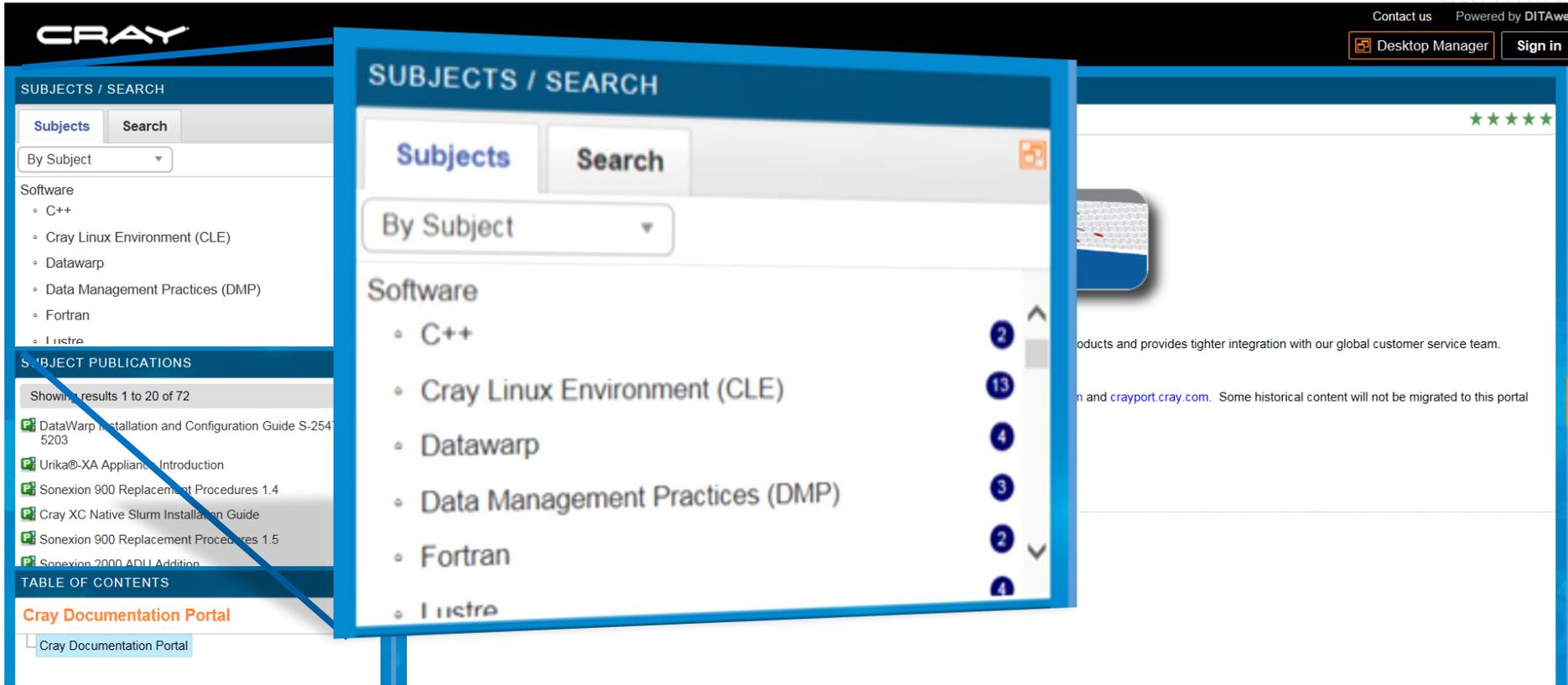
Documentation Portal. This site supports documentation for Cray hardware and software products and provides tighter integration with our global customer service team.

advanced features of this site.

as well as migrating relevant content recently published on docs.cray.com and crayport.cray.com. Some historical content will not be migrated to this portal

Us link on this website. Your feedback is important to us.

STORE | ANALYZE



The screenshot shows the Cray Documentation Portal interface. At the top right, there are links for 'Contact us' and 'Powered by DITAWe', along with buttons for 'Desktop Manager' and 'Sign in'. The main content area is titled 'SUBJECTS / SEARCH' and features a search bar with 'By Subject' selected. Below the search bar, a list of software categories is displayed, each with a corresponding count in a blue circle: C++ (2), Cray Linux Environment (CLE) (13), Datawarp (4), Data Management Practices (DMP) (3), Fortran (2), and Lustre (4). The left sidebar contains a 'SUBJECT PUBLICATIONS' section showing a list of documents, and a 'TABLE OF CONTENTS' section with a link to 'Cray Documentation Portal'.

CRAY

Contact us Powered by DITAWe

Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

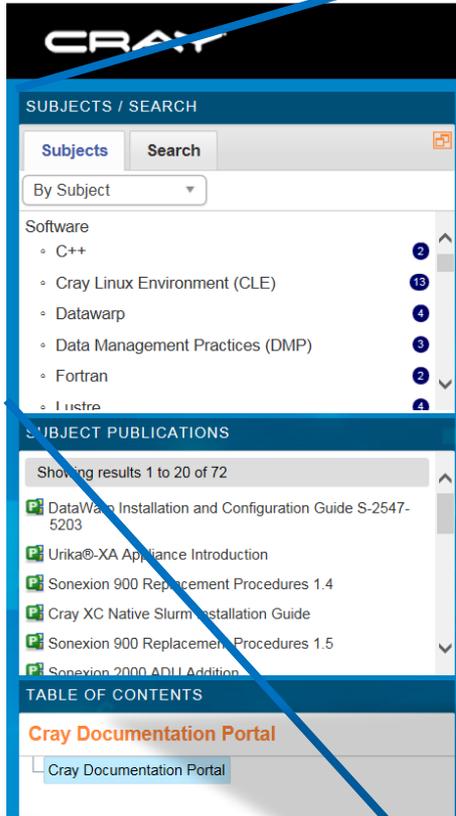
- DataWarp Installation and Configuration Guide S-254 5203
- Urika®-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Slurm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
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TABLE OF CONTENTS

Cray Documentation Portal

Cray Documentation Portal

Portal



CRAY

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- lustre

SUBJECT PUBLICATIONS

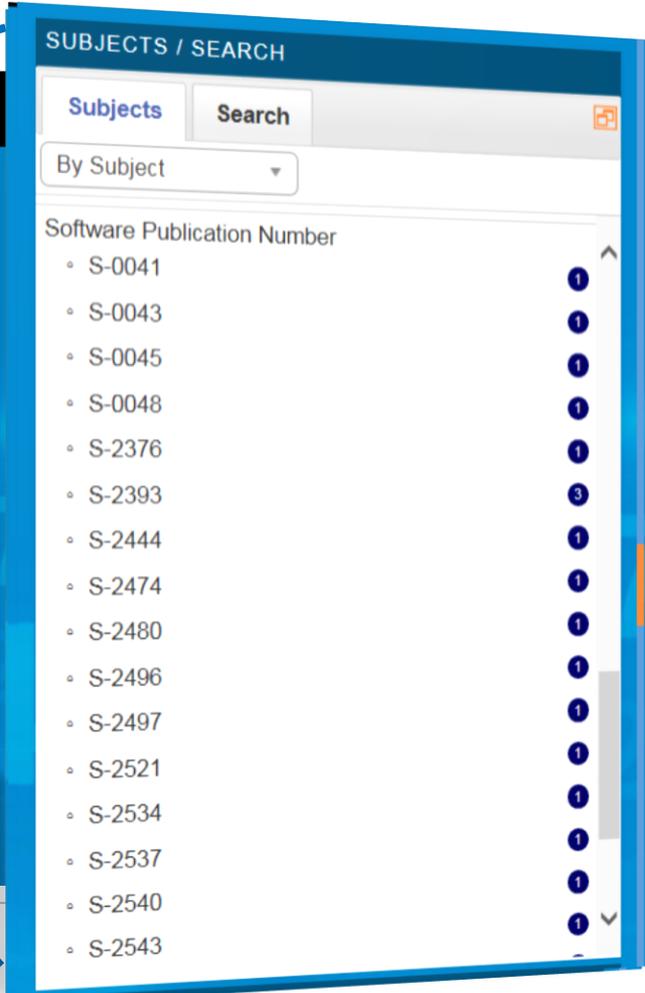
Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
- Unika@-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Slurm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

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Cray Documentation Portal

- Cray Documentation Portal



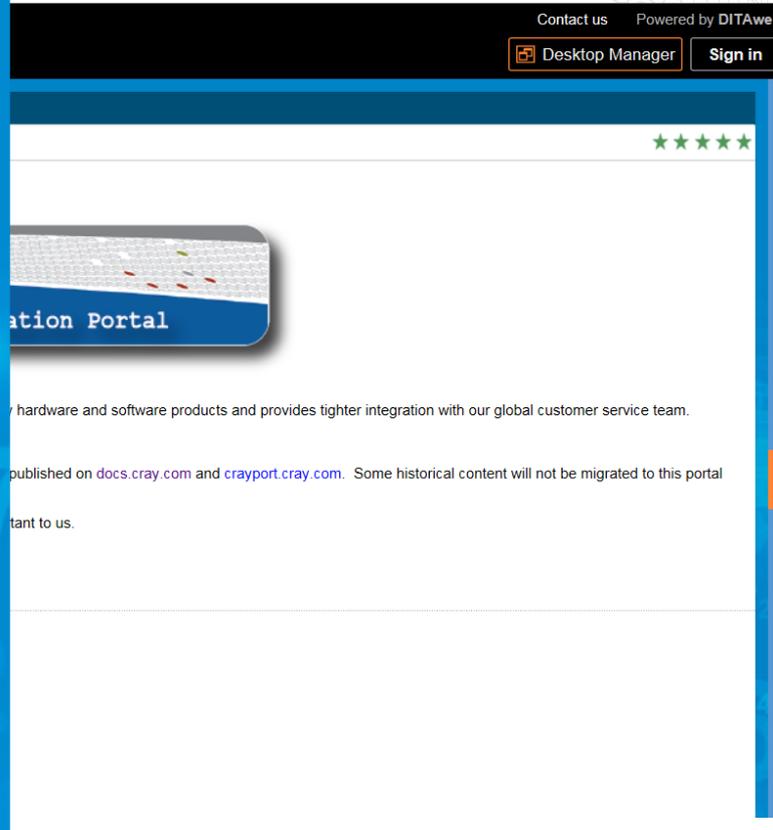
SUBJECTS / SEARCH

Subjects Search

By Subject

Software Publication Number

- S-0041
- S-0043
- S-0045
- S-0048
- S-2376
- S-2393
- S-2444
- S-2474
- S-2480
- S-2496
- S-2497
- S-2521
- S-2534
- S-2537
- S-2540
- S-2543



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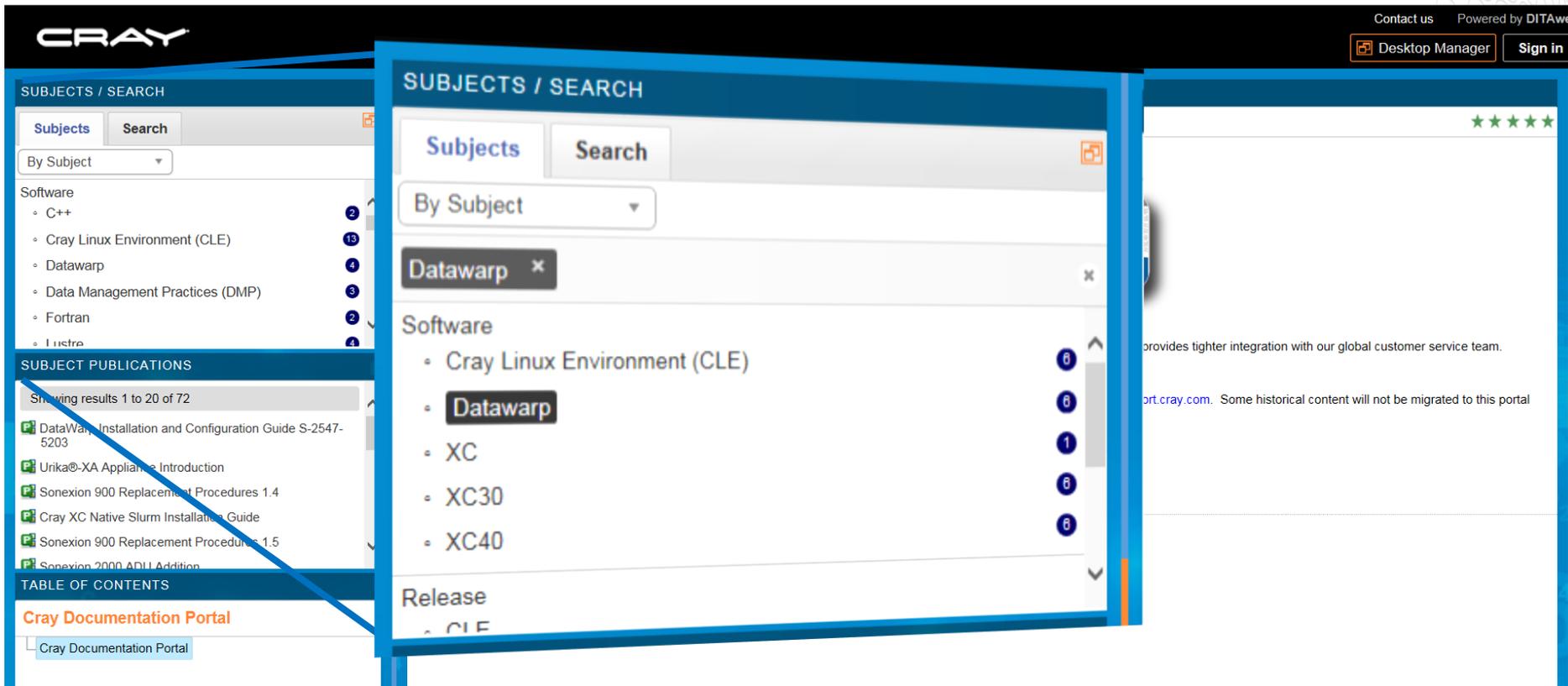
ation Portal

hardware and software products and provides tighter integration with our global customer service team.

published on docs.cray.com and crayport.cray.com. Some historical content will not be migrated to this portal

tant to us.

Faceted Search



CRAY Contact us Powered by DITAwe Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++ (2)
- Cray Linux Environment (CLE) (13)
- Datawarp (4)
- Data Management Practices (DMP) (3)
- Fortran (2)
- Lustre (4)

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
- Urika®-XA Appliances Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Slurm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADLL Addition

TABLE OF CONTENTS

Cray Documentation Portal

- Cray Documentation Portal

SUBJECTS / SEARCH

Subjects Search

By Subject

Datawarp x

Software

- Cray Linux Environment (CLE) (6)
- Datawarp** (6)
- XC (1)
- XC30 (6)
- XC40 (6)

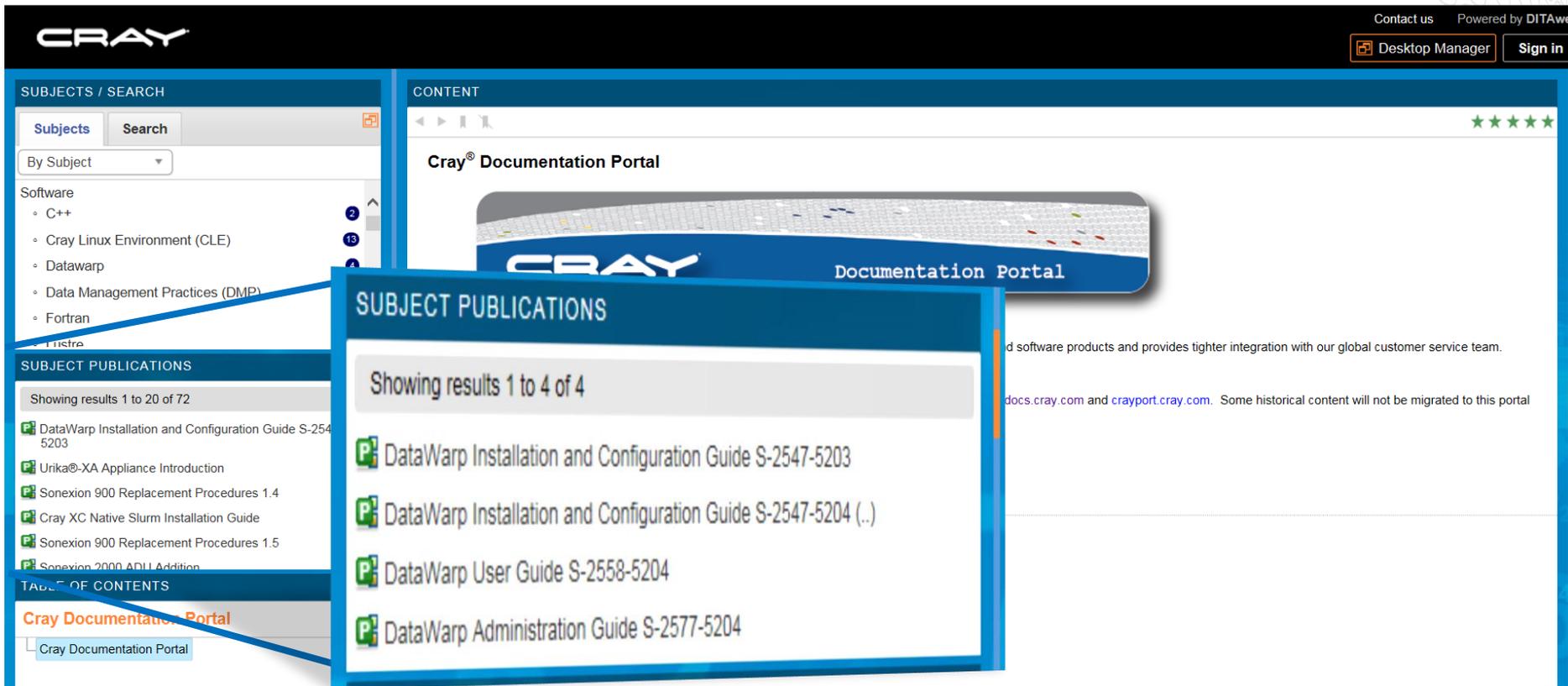
Release

CLE

provides tighter integration with our global customer service team.

port.cray.com. Some historical content will not be migrated to this portal

Faceted Search



CRAY Contact us Powered by DITAwe Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Truste

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
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TABLE OF CONTENTS

Cray Documentation Portal

CRAY Documentation Portal

SUBJECT PUBLICATIONS

Showing results 1 to 4 of 4

- DataWarp Installation and Configuration Guide S-2547-5203
- DataWarp Installation and Configuration Guide S-2547-5204 (..)
- DataWarp User Guide S-2558-5204
- DataWarp Administration Guide S-2577-5204

First Topic Opens in Content Panel

The screenshot shows the CRAY website interface. At the top left is the CRAY logo. At the top right are links for 'Contact us', 'Powered by DITAweb', 'Desktop Manager', and 'Sign in'. The main content area is divided into two panels: 'SUBJECTS / SEARCH' on the left and 'CONTENT' on the right. The 'SUBJECTS / SEARCH' panel shows a search bar and a list of subjects, with 'DataWarp' selected. The 'CONTENT' panel displays the 'About the DataWarp Administration Guide' page. A blue box highlights the 'Download PDF' link in the table of contents, and a purple circle highlights the 'About the DataWarp Administration Guide' item in the table of contents.

CRAY

Contact us Powered by DITAweb
Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search Titles

By Subject

DataWarp

Software

- Cray Linux Environment (CLE)
- DataWarp
- XC
- XC30
- XC31

SUBJECT PUBLICATIONS

Showing results 1 to 4 of 4

- DataWarp Installation and Configuration Guide S-2547-5203
- DataWarp Installation and Configuration Guide S-2547-5204
- DataWarp User Guide S-2558-5204
- DataWarp Administration Guide S-2577-5204

TABLE OF CONTENTS

DataWarp Administration Guide S-2557-5204

- Download PDF
- About the DataWarp Administration Guide
- Important Information about this DataWarp Release
- About DataWarp
- DataWarp Administrator Tools
- DataWarp Administrator Tasks
- Troubleshooting
- Diagnostics
- Terminology
- Prefixes for Binary and Decimal Multiples

CONTENT

About the DataWarp Administration Guide

This publication covers administrative concepts and tasks for Cray XC™ series systems running CLE5.2.UPO4 and installed with DataWarp SSD cards; it is intended for system administrators.

Release Information

This publication includes information, guidance, and procedures for DataWarp on Cray XC series systems running software release CLE5.2.UPO4. It supports both implementations of DataWarp: DataWarp with DWS and Static DataWarp.

Record of Revision

... of source code for the `dirpoolhelp` command and modified the [DataWarp with DWS: Create a Storage Pool](#) procedure to use `dirpoolhelp`.

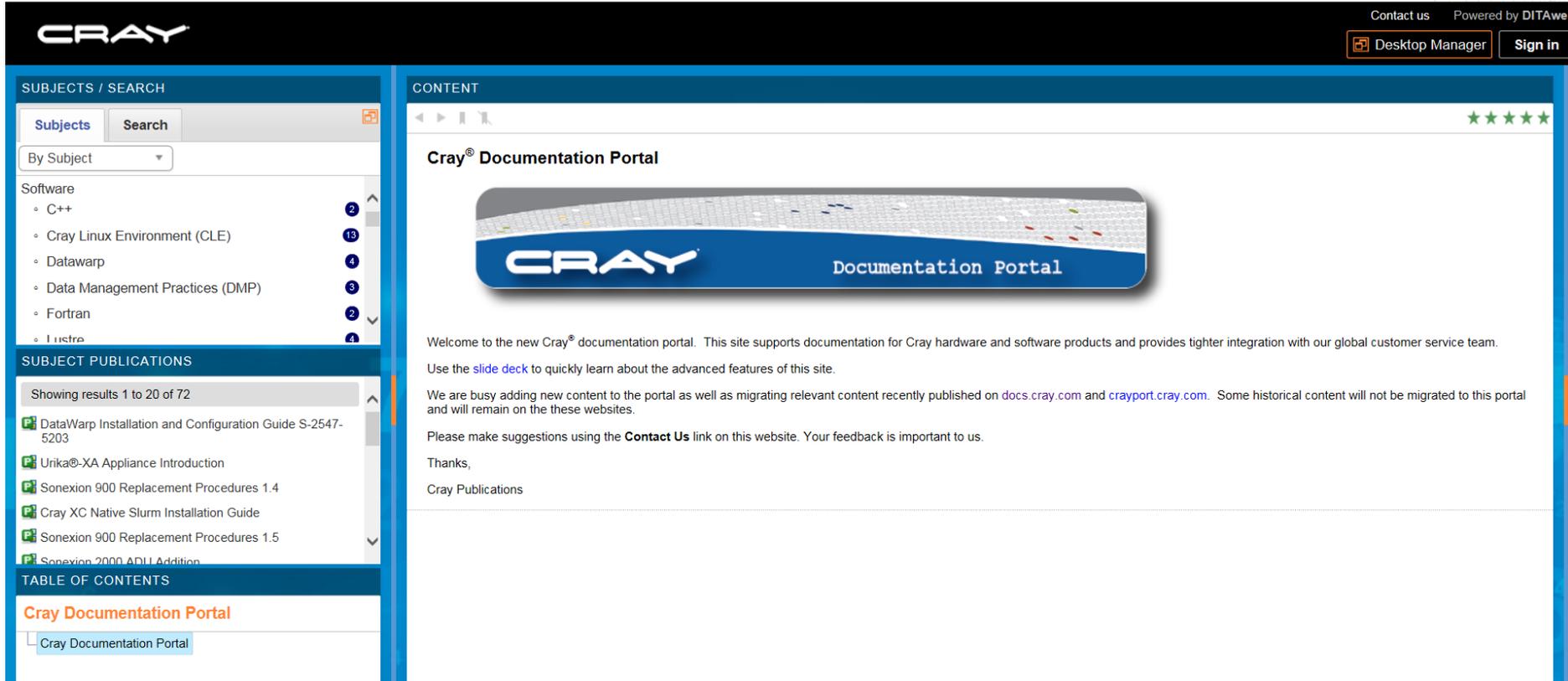
TABLE OF CONTENTS

DataWarp Administration Guide S-2557-5204

- Download PDF
- About the DataWarp Administration Guide
- Important Information about this DataWarp Release
- About DataWarp
- DataWarp Administrator Tools
- DataWarp Administrator Tasks
- Troubleshooting
- Diagnostics
- Terminology
- Prefixes for Binary and Decimal Multiples

... functions, command-line prompts, screen output, file/path names, key strokes (e.g., Enter and Alt-Ctrl-F), and other software constructs. ... command line or in response to an interactive prompt. ... syntax definitions. ... ment. ... shell line continuation character (lines joined by a backslash are parsed as a single line). Do not type anything after the backslash or the ... in the upper-right corner or Email pubs@cray.com.

Back to the Home Page



The screenshot shows the Cray Documentation Portal home page. At the top right, there are links for "Contact us" and "Powered by DITAWe", along with buttons for "Desktop Manager" and "Sign in". The main content area features a large banner with the Cray logo and "Documentation Portal" text. Below the banner, there is a welcome message and a list of subject publications. The left sidebar contains navigation options for "Subjects" and "Search", a "By Subject" dropdown menu, and a list of software categories with counts. The bottom of the page has a navigation bar with "COMPUTE", "STORE", and "ANALYZE" options, and a page number "24" in a circle.

CRAY

Contact us Powered by DITAWe

Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++ 2
- Cray Linux Environment (CLE) 13
- Datawarp 4
- Data Management Practices (DMP) 3
- Fortran 2
- Lustre 4

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
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- Cray XC Native Sturm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

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Cray Documentation Portal

Cray Documentation Portal

CONTENT

CRAY Documentation Portal

Welcome to the new Cray® documentation portal. This site supports documentation for Cray hardware and software products and provides tighter integration with our global customer service team.

Use the [slide deck](#) to quickly learn about the advanced features of this site.

We are busy adding new content to the portal as well as migrating relevant content recently published on [docs.cray.com](#) and [crayport.cray.com](#). Some historical content will not be migrated to this portal and will remain on the these websites.

Please make suggestions using the **Contact Us** link on this website. Your feedback is important to us.

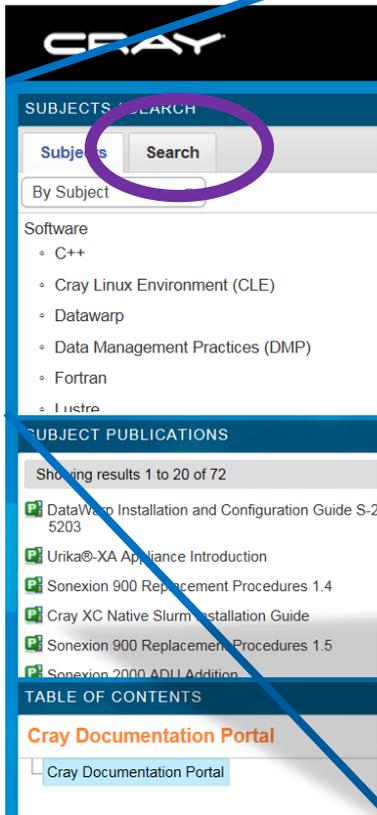
Thanks,

Cray Publications

COMPUTE | STORE | ANALYZE

24

Search Tab



CRAY

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

SUBJECT PUBLICATIONS

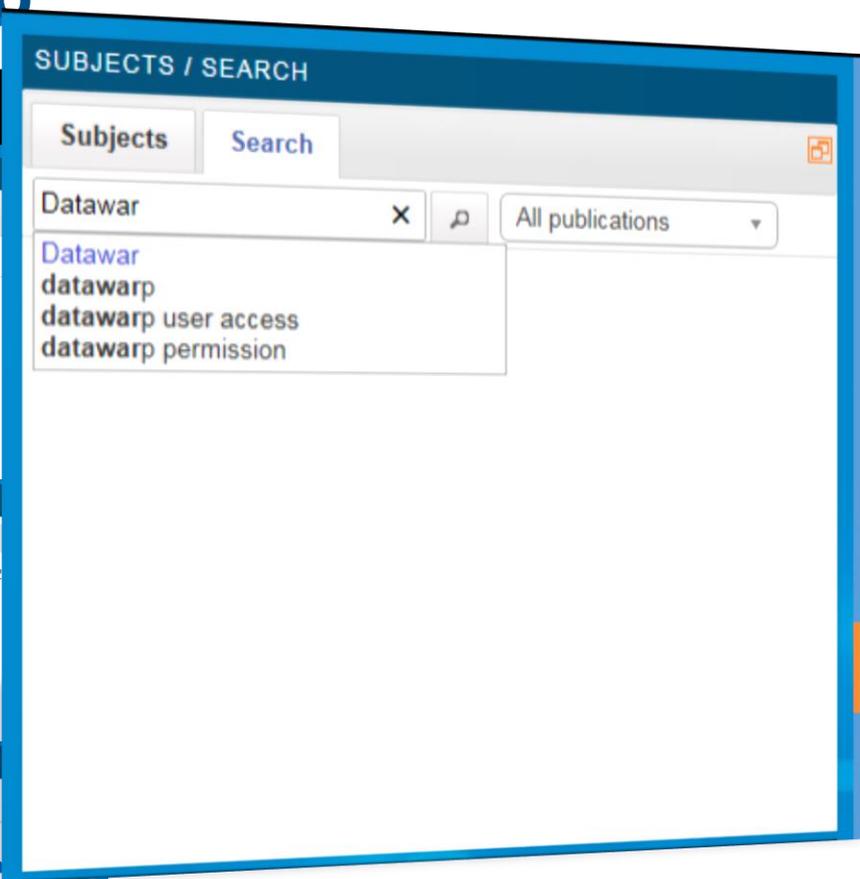
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- DataWarp Installation and Configuration Guide S-25203
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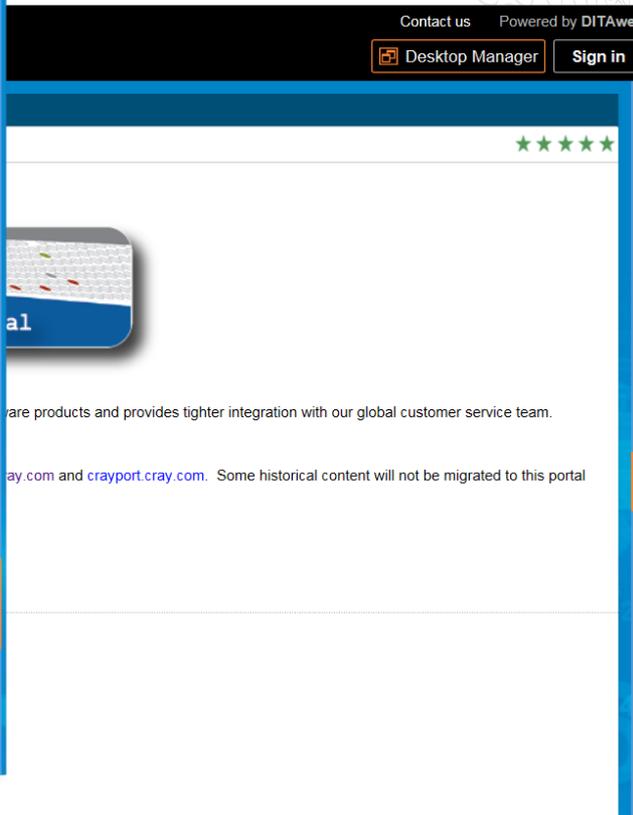


SUBJECTS / SEARCH

Subjects Search

Datawar x p All publications

- Datawar
- datawarp
- datawarp user access
- datawarp permission



Contact us Powered by DITAWe

Desktop Manager Sign in

★★★★★

a1

are products and provides tighter integration with our global customer service team.

ay.com and crayport.cray.com. Some historical content will not be migrated to this portal

Search Results

CRAY

Contact us Powered by DITAweb

Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search Titles

data X Subject publications

datawarp

system environment data collections

(sedc)

system environment data collections

About DataWarp Installation and Configuration Guide

...[S2547] About DataWarp Installation and Configuration Guide

Specific release information. This publication is intended for system administrators of...

Supported DataWarp SSD Cards

...[S2547] Supported DataWarp SSD Cards What are the differences and why are they important? The following types of SSD cards are supported on

What are the differences and why are they important?

Static DataWarp: Configure Scratch Storage on FusionIO SSD Cards

...[S2547] Static DataWarp: Configure Scratch Storage on FusionIO SSD Cards Procedure to use with deprecated version of DataWarp. Complete the install...

Static DataWarp: Configure Swap Storage on FusionIO SSD Cards

...[S2547] Static DataWarp: Configure Swap Storage on FusionIO SSD Cards Procedure to use with deprecated version of DataWarp. Complete the install the

Set CLEInstall.conf Parameters for FusionIO SSD Cards

... installation or upgrade of CLE system software or when running CLEInstall as a separate event. Supported DataWarp SSD Cards What are the differences and why are they important?

Static DataWarp: Repair a Volume Group when an SSD Fails

...[S2547] Static DataWarp: Repair a Volume Group when an SSD Fails Process to recover from SSD device failure when a logical volume group is defined...

Troubleshooting FusionIO Card Issues

... tool included with the SSD driver and is available on the DataWarp service node. # fio-status -a The -a option specifies that all available data from the

SUBJECT PUBLICATIONS

TABLE OF CONTENTS

CONTENT

SUBJECTS / SEARCH

Subjects Search Titles

datawarp user access Current publication

Showing results 1 to 8 of 8

About DataWarp Installation and Configuration Guide

...[S2547] About DataWarp Installation and Configuration Guide

Specific release information. This publication is intended for system administrators of...

Supported DataWarp SSD Cards

...[S2547] Supported DataWarp SSD Cards

What are the differences and why are they important? The following types of SSD cards are supported on Cray XC...

Static DataWarp: Configure Scratch Storage on FusionIO SSD Cards

...[S2547] Static DataWarp: Configure Scratch Storage on FusionIO SSD Cards

Content include:

About

This pu

Rele

This p

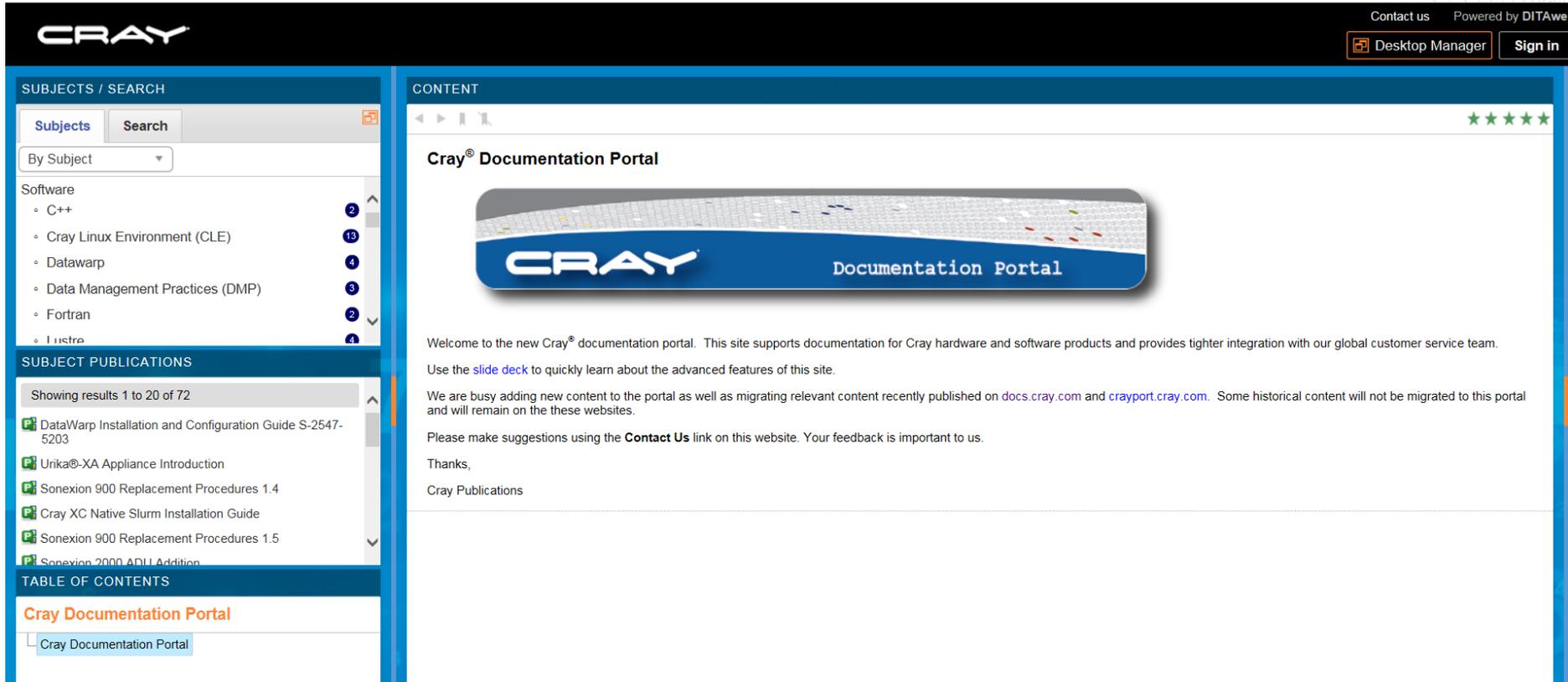
Adde

St

es lines joined by a backslash as though they were a single line. Do not type anything

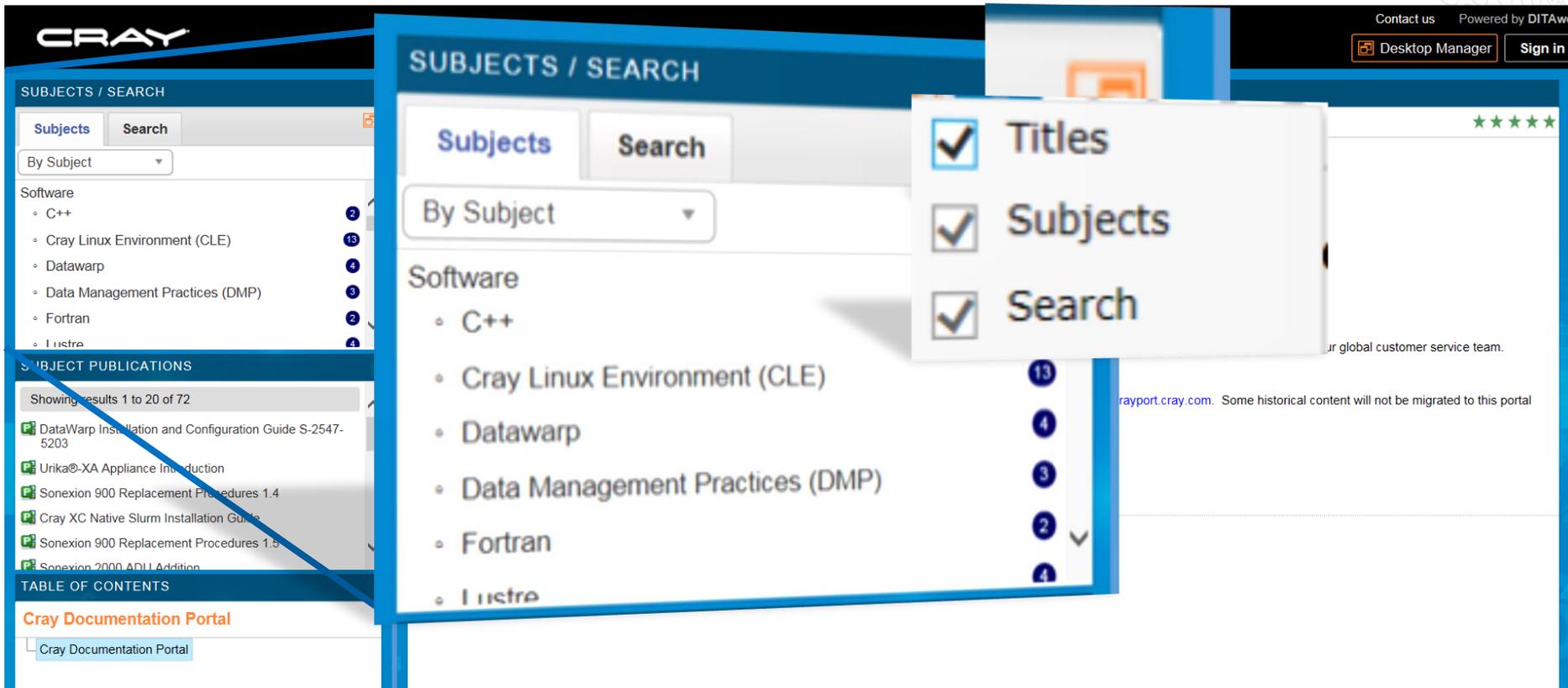
COMPUTE | STORE | ANALYZE

Back to the Home Page



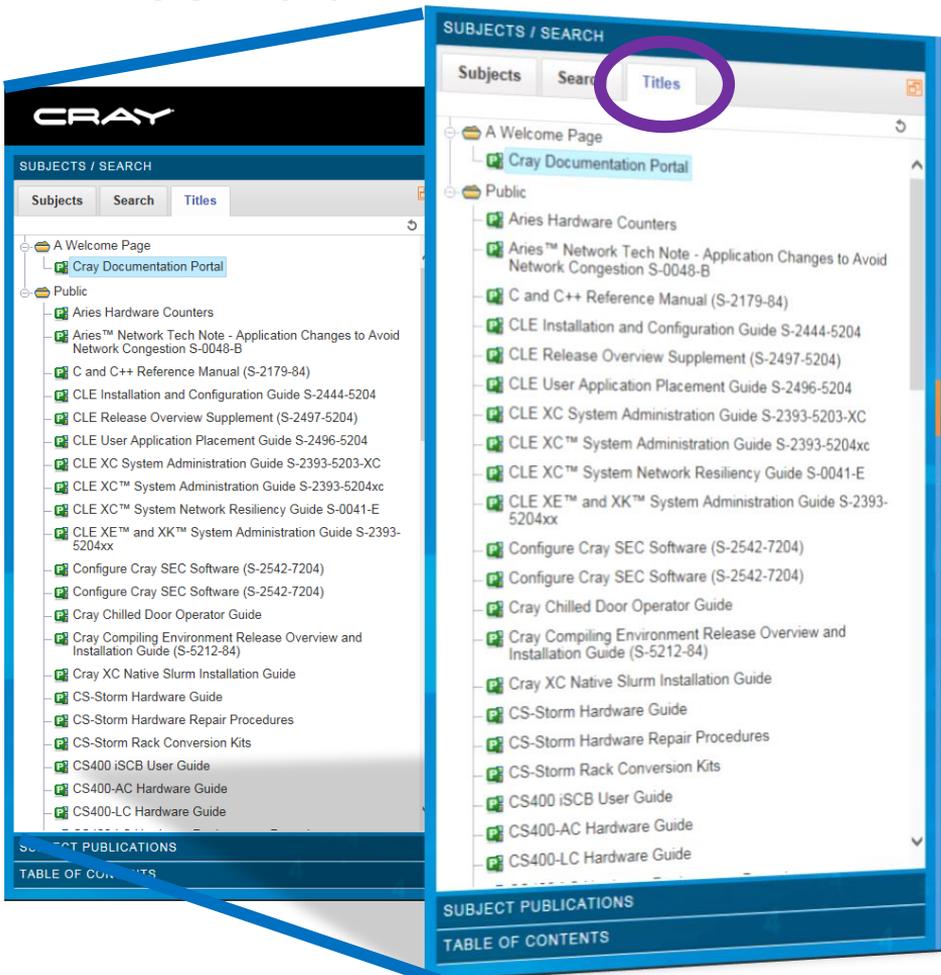
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Tab Manager



The screenshot displays the Cray website interface with a 'Tab Manager' overlay. The background shows the 'SUBJECTS / SEARCH' section with a sidebar menu and a main content area. The overlay is a semi-transparent white box with a blue border, containing a 'Subjects' tab, a 'Search' tab, a 'By Subject' dropdown menu, and a list of software categories with circular icons. A dropdown menu is open over the overlay, listing 'Titles', 'Subjects', and 'Search', each with a checked checkbox. The background interface includes a 'CRAY' logo, 'Contact us', 'Powered by DITAwe', 'Desktop Manager', and 'Sign in' buttons. The sidebar menu lists software categories like C++, Cray Linux Environment (CLE), Datawarp, Data Management Practices (DMP), Fortran, and Lustre. The main content area shows 'SUBJECT PUBLICATIONS' with a list of documents and a 'TABLE OF CONTENTS' section.

Titles Tab



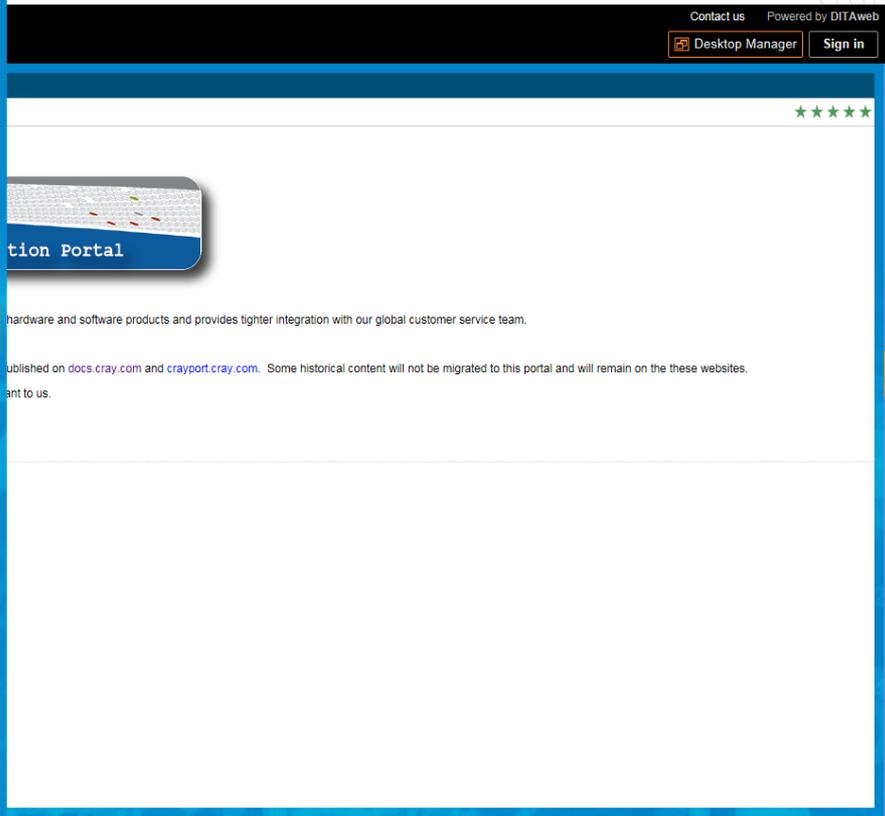
SUBJECTS / SEARCH

Subjects Search **Titles**

- A Welcome Page
 - Cray Documentation Portal
- Public
 - Aries Hardware Counters
 - Aries™ Network Tech Note - Application Changes to Avoid Network Congestion S-0048-B
 - C and C++ Reference Manual (S-2179-84)
 - CLE Installation and Configuration Guide S-2444-5204
 - CLE Release Overview Supplement (S-2497-5204)
 - CLE User Application Placement Guide S-2496-5204
 - CLE XC System Administration Guide S-2393-5203-XC
 - CLE XC™ System Administration Guide S-2393-5204xx
 - CLE XC™ System Network Resiliency Guide S-0041-E
 - CLE XE™ and XK™ System Administration Guide S-2393-5204xx
 - Configure Cray SEC Software (S-2542-7204)
 - Configure Cray SEC Software (S-2542-7204)
 - Cray Chilled Door Operator Guide
 - Cray Compiling Environment Release Overview and Installation Guide (S-5212-84)
 - Cray XC Native Slurm Installation Guide
 - CS-Storm Hardware Guide
 - CS-Storm Hardware Repair Procedures
 - CS-Storm Rack Conversion Kits
 - CS400 iSCB User Guide
 - CS400-AC Hardware Guide
 - CS400-LC Hardware Guide

SUBJECT PUBLICATIONS

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Contact us Powered by DITAweb

Desktop Manager Sign in

Documentation Portal

hardware and software products and provides tighter integration with our global customer service team.

published on docs.cray.com and crayport.cray.com. Some historical content will not be migrated to this portal and will remain on the these websites. Contact us.

Side by Side Comparison to Choose Content

SUBJECTS / SEARCH

Subjects Search

By Subject

- Software
 - C++ (2)
 - Cray Linux Environment (CLE) (13)
 - Datawarp (4)
 - Data Management Practices (DMP) (3)
 - Fortran (2)
 - Lustre (4)
 - Programming Environment (PE) (4)
 - Performance Tools (2)
 - Simple Event Correlator (SEC) (2)
 - System Management Workstation (SMW) (4)
 - System Management Workstation High Availability (SMW HA) (2)
 - Snap Shot Analyzer (SSA) (1)
 - Tiered Adaptive Storage (TAS) (2)
 - XC (2)
 - XC30 (17)
 - XC40 (14)

SUBJECTS / SEARCH

Subjects Search

Datawarp x All publications

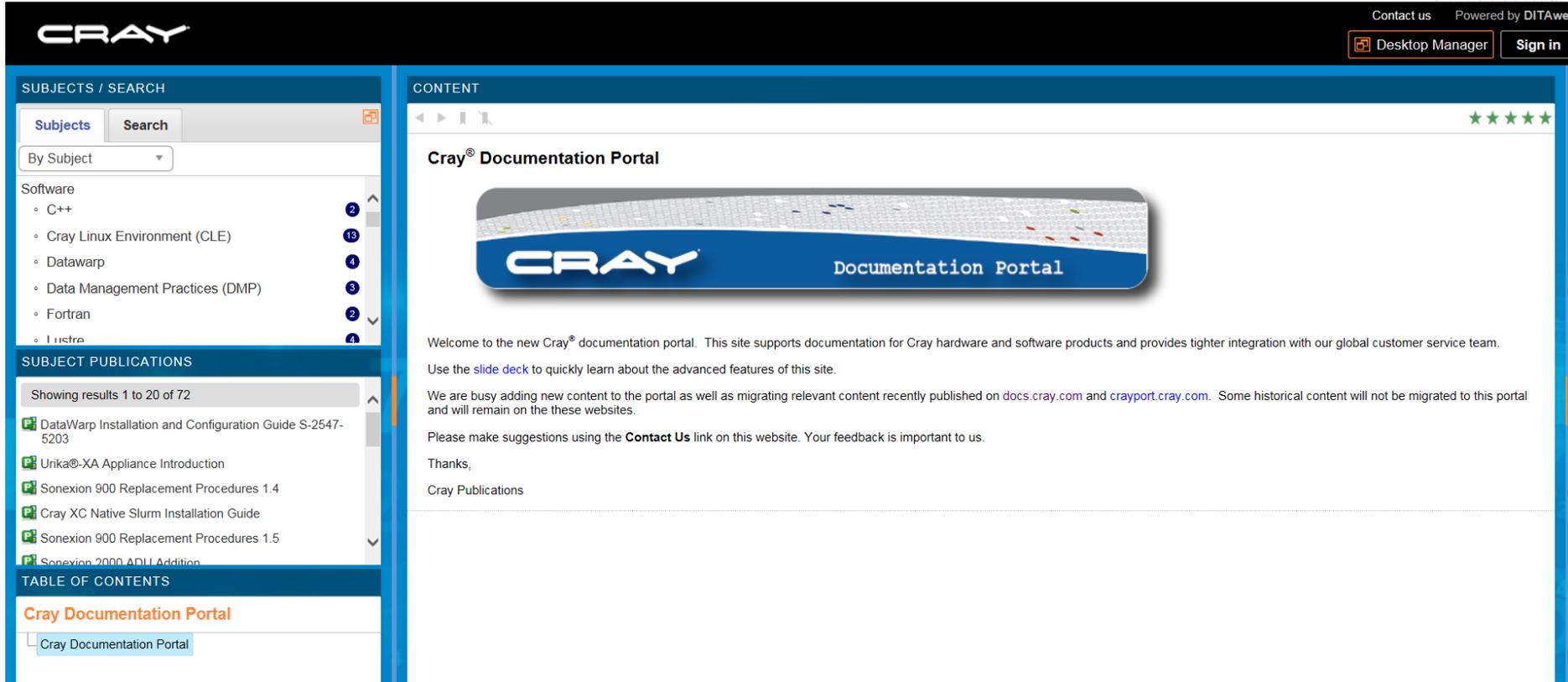
- Datawarp
- datawarp
- datawarp user access
- datawarp permission

SUBJECTS / SEARCH

Subjects Search Titles

- A Welcome Page
 - Cray Documentation Portal
- Public
 - Aries Hardware Counters
 - Aries™ Network Tech Note - Application Changes to Avoid Network Congestion S-0048-B
 - C and C++ Reference Manual (S-2179-84)
 - CLE Installation and Configuration Guide S-2444-5204
 - CLE Release Overview Supplement (S-2497-5204)
 - CLE User Application Placement Guide S-2496-5204
 - CLE XC System Administration Guide S-2393-5203-XC
 - CLE XC™ System Administration Guide S-2393-5204xc
 - CLE XC™ System Network Resiliency Guide S-0041-E
 - CLE XE™ and XK™ System Administration Guide S-2393-5204xx
 - Configure Cray SEC Software (S-2542-7204)
 - Configure Cray SEC Software (S-2542-7204)
 - Cray Chilled Door Operator Guide
 - Cray Compiling Environment Release Overview and Installation Guide (S-5212-84)
 - Cray XC Native Slurm Installation Guide
 - CS-Storm Hardware Guide
 - CS-Storm Hardware Repair Procedures
 - CS-Storm Rack Conversion Kits
 - CS400 iSCB User Guide
 - CS400-AC Hardware Guide
 - CS400-LC Hardware Guide

Back to the Home Page



The screenshot shows the Cray Documentation Portal home page. The top navigation bar includes the Cray logo, a search bar, and links for 'Contact us', 'Powered by DITAWe', 'Desktop Manager', and 'Sign in'. The main content area features a large banner with the Cray logo and 'Documentation Portal' text. Below the banner, there is a welcome message and a list of subject publications. The left sidebar contains a 'SUBJECTS / SEARCH' section with a search bar and a list of software categories, and a 'SUBJECT PUBLICATIONS' section showing search results.

CRAY

Contact us Powered by DITAWe
Desktop Manager Sign in

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S-2547-5203
- Urika®-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Sturm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

TABLE OF CONTENTS

Cray Documentation Portal

CRAY Documentation Portal

Welcome to the new Cray® documentation portal. This site supports documentation for Cray hardware and software products and provides tighter integration with our global customer service team.

Use the [slide deck](#) to quickly learn about the advanced features of this site.

We are busy adding new content to the portal as well as migrating relevant content recently published on [docs.cray.com](#) and [crayport.cray.com](#). Some historical content will not be migrated to this portal and will remain on the these websites.

Please make suggestions using the **Contact Us** link on this website. Your feedback is important to us.

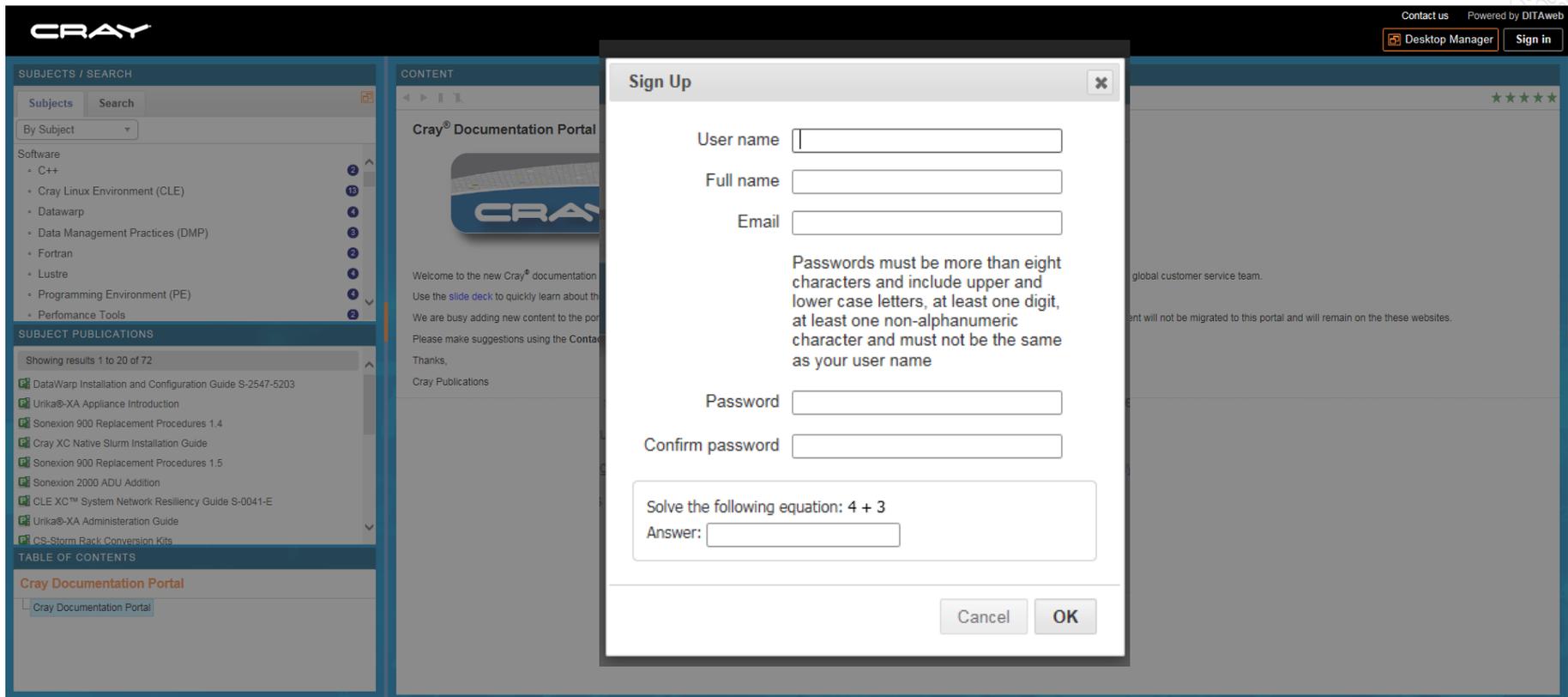
Thanks,
Cray Publications

Sign In for Additional Privileges



A screenshot of the Cray Documentation Portal interface. The page is titled "Cray® Documentation Portal" and features a navigation sidebar on the left with categories like "Software" and "SUBJECT PUBLICATIONS". The main content area displays a welcome message and a list of publications. A "Sign in" modal dialog is overlaid in the center, containing fields for "Username" (with the value "peggy") and "Password" (represented by dots). Below the password field are links for "Forgotten password?" and "New user?". The modal has "Cancel" and "OK" buttons at the bottom. In the top right corner of the portal, there are links for "Contact us", "Powered by DITAweb", "Desktop Manager", and "Sign in".

Sign In for Additional Privileges



The screenshot shows the Cray Documentation Portal interface. At the top right, there are links for "Contact us" and "Powered by DITAweb", along with buttons for "Desktop Manager" and "Sign in". The main content area is titled "Cray® Documentation Portal" and includes a welcome message: "Welcome to the new Cray® documentation. Use the slide deck to quickly learn about the portal. We are busy adding new content to the portal. Please make suggestions using the Contact Us link. Thanks, Cray Publications". A "Sign Up" modal is overlaid on the page, containing the following fields and text:

Sign Up

User name

Full name

Email

Passwords must be more than eight characters and include upper and lower case letters, at least one digit, at least one non-alphanumeric character and must not be the same as your user name

Password

Confirm password

Solve the following equation: $4 + 3$

Answer:

Buttons: Cancel, OK

Sign in for additional features



CRAY Admin Analytics Collaborate Manager Users

Contact us Powered by D... Web
Desktop Manager peggy

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Graph Engine (CGE)
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- eLogin
- Fortran
- Lustre

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 121

- DataWarp Installation and Configuration Guide S-2547-5203
- Unika®-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Unika-GX System Introduction (S-4000-0500)
- Cray XC Native Slurm Installation Guide
- Unika®-XA Appliance Introduction (S-3000-1500)
- DataWarp User Guide (S-2558-60-draft_02-11-16)
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

TABLE OF CONTENTS

Cray Documentation Portal

- Cray Documentation Portal

CONTENT

Cray® Documentation Portal

Welcome to the new Cray® documentation portal. This site supports documentation for Cray hardware and software products and provides tighter integration with our global customer service team.

Use the [slide deck](#) to quickly learn about the advanced features of this site.

We are busy adding new content to the portal as well as migrating relevant content recently published on [docs.cray.com](#) and [crayport.cray.com](#). Some historical content will not be migrated to this portal and will remain on these websites.

Please make suggestions using the [Contact Us](#) link on this website. Your feedback is important to us.

Thanks,
Cray Publications

RELATED LINKS

No related links

COLLECTIONS

- My Collections
- Group Collections

Sign in for additional features



The screenshot shows the Cray Documentation Portal interface. At the top, there is a navigation bar with the Cray logo and icons for Admin, Analytics, Collaborate, Manager, and Users. On the right, there are links for 'Contact us', 'Powered by DITAweb', 'Desktop Manager', and a user profile for 'peggy'.

The main content area is divided into three columns:

- SUBJECTS / SEARCH:** Includes a search bar, a dropdown menu for 'By Subject', and a list of software categories such as C++, Cray Graph Engine (CGE), Cray Linux Environment (CLE), Datawarp, Data Management Practices (DMP), eLogin, Fortran, and Lustre.
- CONTENT:** Displays the 'Cray® Documentation Portal' header, a welcome message, and a 'slide deck' link. Below this is a 'TABLE OF CONTENTS' section with a link to 'Cray Documentation Portal'.
- RELATED LINKS:** Currently shows 'No related links'.

A 'COLLECTIONS' modal is open in the center, showing a tree view with 'My Collections' and 'Group Collections'. A blue arrow points from the 'My Collections' link in the modal to the 'My Collections' link in the 'RELATED LINKS' section of the main page.

COMPUTE

STORE

ANALYZE

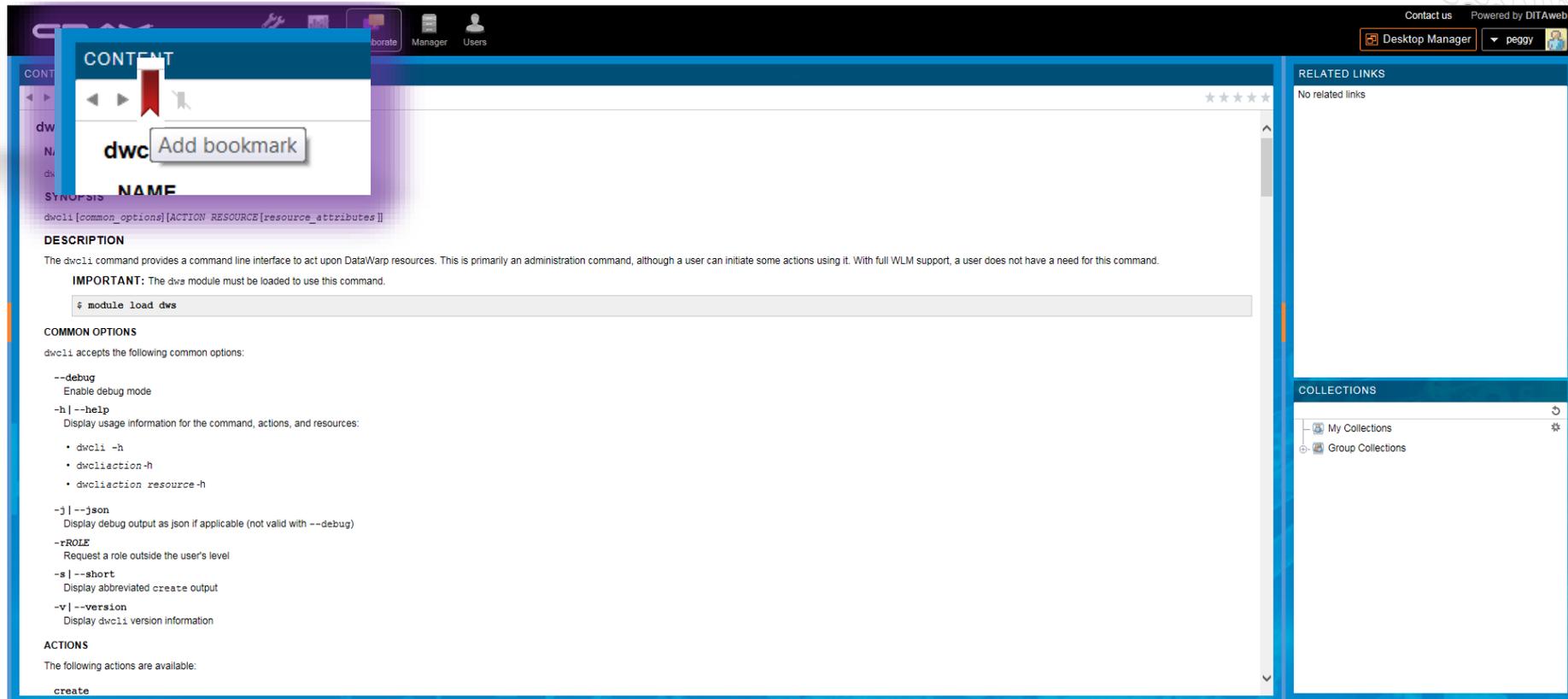
Add to Collection



The screenshot shows a documentation page for the 'dwcli' command. The page is divided into several sections:

- SUBJECTS / SEARCH:** A search bar with a dropdown menu set to 'By Subject'. A search filter 'Datawarp' is applied, showing a list of software items including 'Cray Linux Environment (CLE)', 'Datawarp', and 'YRC'.
- SUBJECT PUBLICATIONS:** A list of publications related to DataWarp, including installation and configuration guides and user guides.
- TABLE OF CONTENTS:** A navigation menu for the 'DataWarp Administration Guide S-2557-5204', with 'dwcli(8)' highlighted.
- CONTENT:** The main body of the page, containing the following text:
 - dwcli** - Command line interface for DataWarp
 - SYNOPSIS**
`dwcli [common_options] [ACTION RESOURCE [resource_attributes]]`
 - DESCRIPTION**
The `dwcli` command provides a command line interface to act upon DataWarp resources. This is primarily an administration command, although a user can initiate some actions using it. With full WLM support, a user can also use `dwcli` to manage WLM resources loaded to use this command.
 - dwcli** accepts the following common options:
 - `--debug`
Enable debug mode
 - `-h | --help`
Display usage information for the command, actions, and resources:
 - `dwcli -h`
 - `dwcli action -h`
 - `dwcli action resource -h`
 - `-j | --json`
Display debug output as json if applicable (not valid with `--debug`)
 - ROLE**
A role outside the user's level
 - ACTIONS**
The following actions are available:
- RELATED LINKS:** A section with the text 'No related links'.
- COLLECTIONS:** A section with a search bar and a list of collections: 'My Collections' and 'Group Collections'.

Add to Collection



CONTACT us | Powered by DITAweb

Desktop Manager | peggy

CONTENT

dwcli **Add bookmark**

NAME

`dwcli [common_options][ACTION RESOURCE[resource_attributes]]`

DESCRIPTION

The `dwcli` command provides a command line interface to act upon DataWarp resources. This is primarily an administration command, although a user can initiate some actions using it. With full WLM support, a user does not have a need for this command.

IMPORTANT: The `dws` module must be loaded to use this command.

```
$ module load dws
```

COMMON OPTIONS

`dwcli` accepts the following common options:

- `--debug`
Enable debug mode
- `-h | --help`
Display usage information for the command, actions, and resources:
 - `dwcli -h`
 - `dwcli action -h`
 - `dwcli action resource -h`
- `-j | --json`
Display debug output as json if applicable (not valid with `--debug`)
- `-r ROLE`
Request a role outside the user's level
- `-s | --short`
Display abbreviated create output
- `-v | --version`
Display `dwcli` version information

ACTIONS

The following actions are available:

- `create`

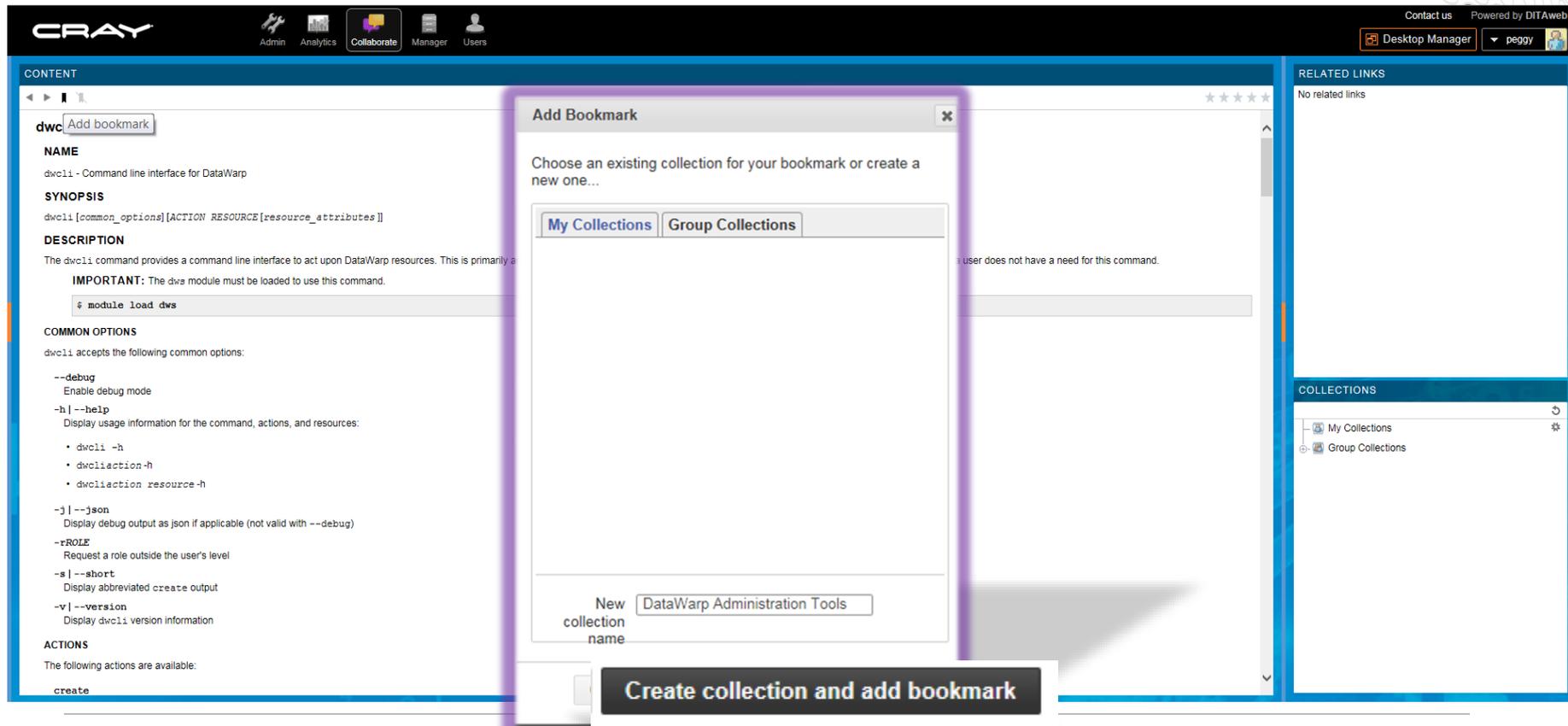
RELATED LINKS

No related links

COLLECTIONS

- My Collections
- Group Collections

Add to Collection



CRAY Admin Analytics Collaborate Manager Users Contact us Powered by DITAweb Desktop Manager peggy

CONTENT

dwc Add bookmark

NAME
dwc11 - Command line interface for DataWarp

SYNOPSIS
dwc11 [common_options][ACTION RESOURCE [resource_attributes]]

DESCRIPTION
The dwc11 command provides a command line interface to act upon DataWarp resources. This is primarily a user does not have a need for this command.

IMPORTANT: The `dws` module must be loaded to use this command.

```
$ module load dws
```

COMMON OPTIONS
dwc11 accepts the following common options:

- `--debug`
Enable debug mode
- `-h | --help`
Display usage information for the command, actions, and resources:
 - `dwc11 -h`
 - `dwc11action -h`
 - `dwc11action resource -h`
- `-j | --json`
Display debug output as json if applicable (not valid with `--debug`)
- `-rROLE`
Request a role outside the user's level
- `-s | --short`
Display abbreviated create output
- `-v | --version`
Display dwc11 version information

ACTIONS
The following actions are available:

- `create`

Add Bookmark

Choose an existing collection for your bookmark or create a new one...

My Collections **Group Collections**

New collection name:

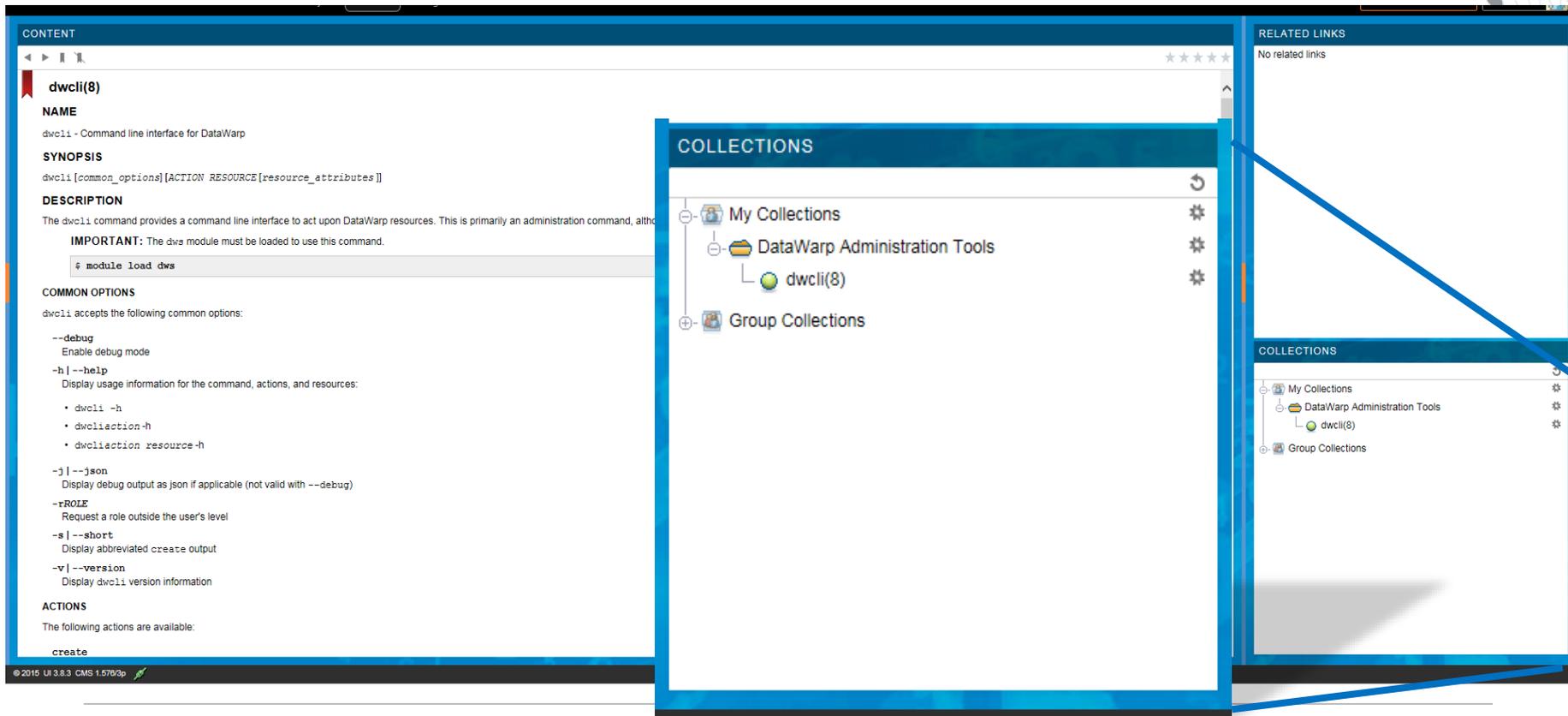
RELATED LINKS
No related links

COLLECTIONS

- My Collections
- Group Collections

Create collection and add bookmark

Add to Collection



The screenshot displays a web interface with a main content area on the left and a sidebar on the right. The main content area shows the details for a document titled "dwcli(8)". The sidebar, titled "COLLECTIONS", shows a tree structure of collections: "My Collections" (expanded), "DataWarp Administration Tools" (expanded), and "Group Collections" (collapsed). The "DataWarp Administration Tools" collection contains the "dwcli(8)" document. A blue arrow points from the "dwcli(8)" document in the sidebar to the main content area.

CONTENT

dwcli(8)

NAME

dwcli - Command line interface for DataWarp

SYNOPSIS

dwcli [common_options] [ACTION RESOURCE [resource_attributes]]

DESCRIPTION

The dwcli command provides a command line interface to act upon DataWarp resources. This is primarily an administration command, although it can also be used to create resources.

IMPORTANT: The dws module must be loaded to use this command.

```
module load dws
```

COMMON OPTIONS

dwcli accepts the following common options:

- debug Enable debug mode
- h | --help Display usage information for the command, actions, and resources:
 - dwcli -h
 - dwcli action -h
 - dwcli action resource -h
- j | --json Display debug output as json if applicable (not valid with --debug)
- r ROLE Request a role outside the user's level
- s | --short Display abbreviated create output
- v | --version Display dwcli version information

ACTIONS

The following actions are available:

- create

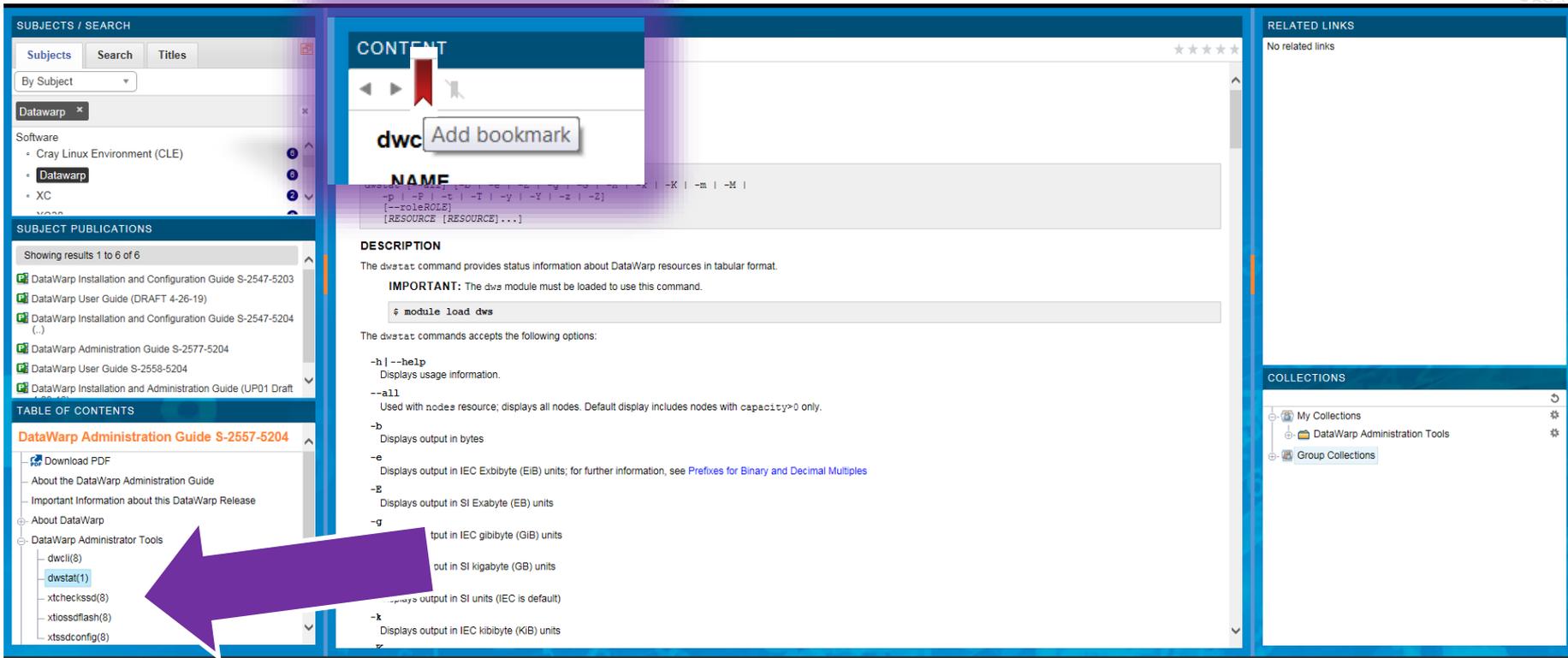
RELATED LINKS

No related links

COLLECTIONS

- My Collections
 - DataWarp Administration Tools
 - dwcli(8)
 - Group Collections

Add to Collection



SUBJECTS / SEARCH

Subjects Search Titles

By Subject

Datawarp

Software

- Cray Linux Environment (CLE)
- Datawarp
- XC

SUBJECT PUBLICATIONS

Showing results 1 to 6 of 6

- DataWarp Installation and Configuration Guide S-2547-5203
- DataWarp User Guide (DRAFT 4-26-19)
- DataWarp Installation and Configuration Guide S-2547-5204 (..)
- DataWarp Administration Guide S-2577-5204
- DataWarp User Guide S-2558-5204
- DataWarp Installation and Administration Guide (UPD01 Draft

TABLE OF CONTENTS

DataWarp Administration Guide S-2557-5204

- Download PDF
- About the DataWarp Administration Guide
- Important Information about this DataWarp Release
- About DataWarp
- DataWarp Administrator Tools
 - dwc(8)
 - dwcstat(1)
 - xtcheckssd(8)
 - xtiossdfash(8)
 - xtssdconfig(8)

CONTENT

dwc **Add bookmark**

NAME

```
dwc [-P | -F | -S | -I | -Y | -Z] [-K | -m | -M |
```

DESCRIPTION

The `dwcstat` command provides status information about DataWarp resources in tabular format.

IMPORTANT: The `dws` module must be loaded to use this command.

```
$ module load dws
```

The `dwcstat` commands accepts the following options:

- `-h | --help`
Displays usage information.
- `--all`
Used with `nodes` resource; displays all nodes. Default display includes nodes with `capacity>0` only.
- `-b`
Displays output in bytes
- `-e`
Displays output in IEC Exbibyte (EIB) units; for further information, see [Prefixes for Binary and Decimal Multiples](#)
- `-B`
Displays output in SI Exabyte (EB) units
- `-g`
Displays output in IEC gibibyte (GiB) units
- `-k`
Displays output in SI kilobyte (KB) units
- `-G`
Displays output in SI gigaibyte (GiB) units
- `-s`
Displays output in SI units (IEC is default)
- `-K`
Displays output in IEC kibibyte (KiB) units

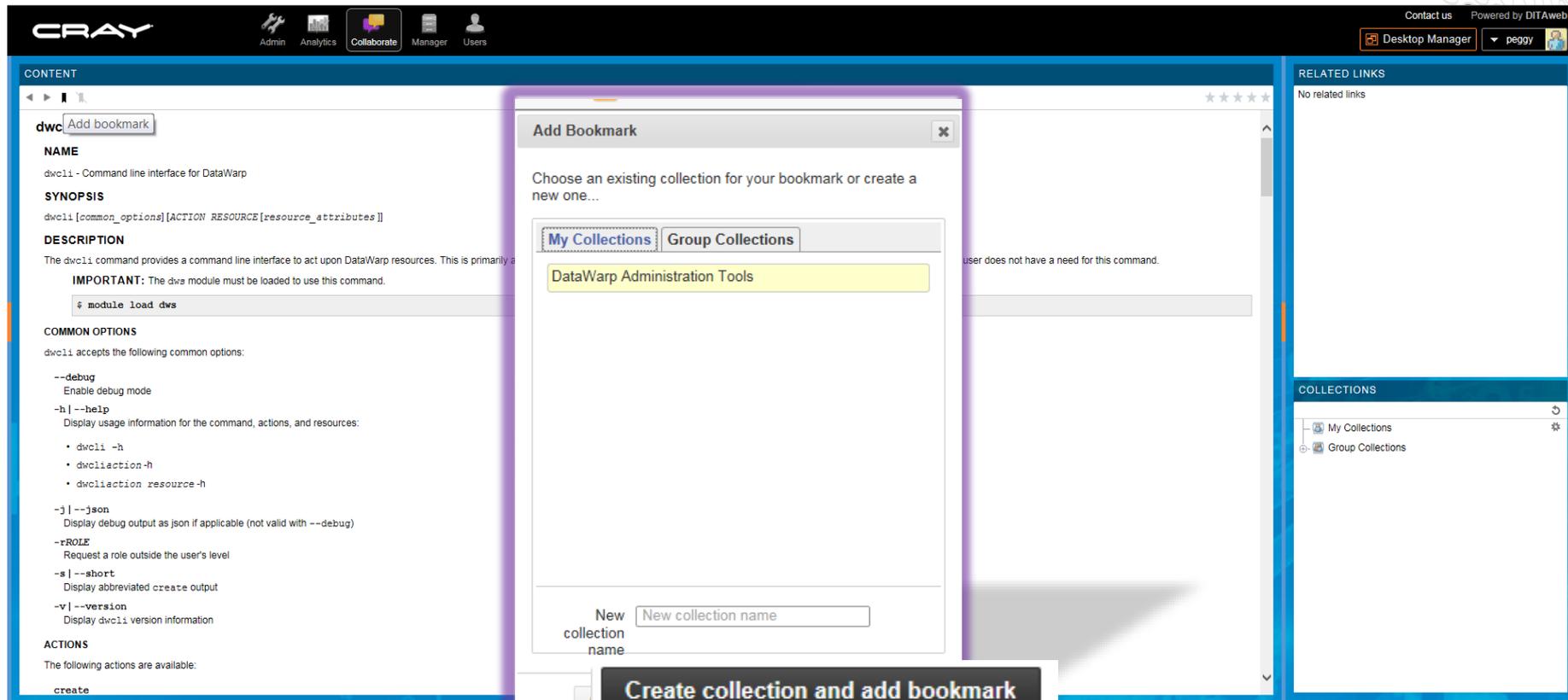
RELATED LINKS

No related links

COLLECTIONS

- My Collections
- DataWarp Administration Tools
- Group Collections

Add to Collection



CRAY Admin Analytics Collaborate Manager Users Contact us Powered by DITAweb Desktop Manager peggy

CONTENT

dwcli

NAME
dwcli - Command line interface for DataWarp

SYNOPSIS
dwcli [common_options][ACTION RESOURCE [resource_attributes]]

DESCRIPTION
The dwcli command provides a command line interface to act upon DataWarp resources. This is primarily a user does not have a need for this command.

IMPORTANT: The dws module must be loaded to use this command.

```
$ module load dws
```

COMMON OPTIONS
dwcli accepts the following common options:

- debug Enable debug mode
- h | --help Display usage information for the command, actions, and resources:
 - dwcli -h
 - dwcli action -h
 - dwcli action resource -h
- j | --json Display debug output as json if applicable (not valid with --debug)
- r ROLE Request a role outside the user's level
- s | --short Display abbreviated create output
- v | --version Display dwcli version information

ACTIONS
The following actions are available:

- create

Add Bookmark

Choose an existing collection for your bookmark or create a new one...

My Collections | Group Collections

DataWarp Administration Tools

New collection name

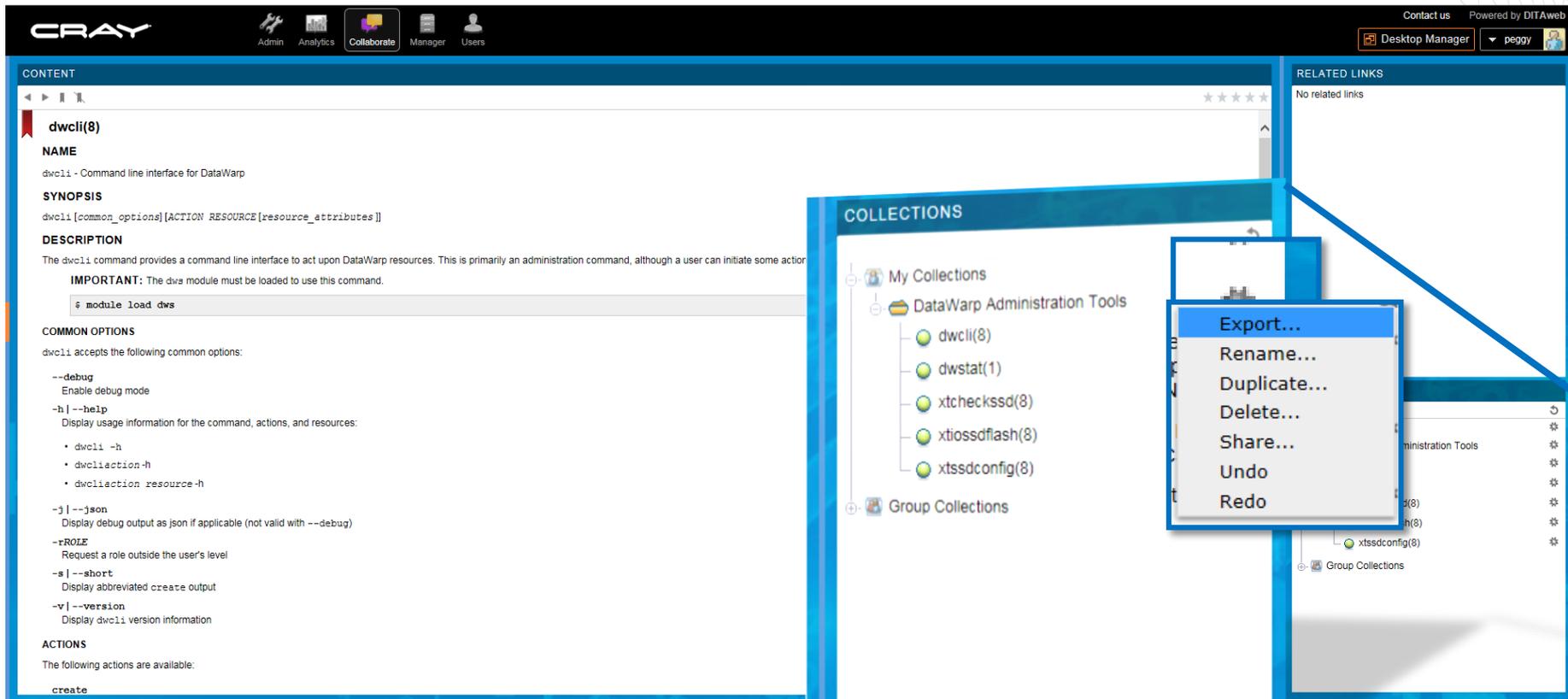
RELATED LINKS
No related links

COLLECTIONS

- My Collections
- Group Collections

Create collection and add bookmark

Curate Your Own Content



The screenshot displays the CRAY web interface. At the top, there are navigation icons for Admin, Analytics, Collaborate, Manager, and Users, along with 'Contact us' and 'Powered by DITAweb'. A 'Desktop Manager' button and a user profile 'peggy' are also visible.

The main content area is titled 'CONTENT' and shows details for 'dwcli(8)'. It includes sections for NAME, SYNOPSIS, DESCRIPTION, COMMON OPTIONS, and ACTIONS. A terminal snippet shows the command `module load dws`.

On the right, there is a 'RELATED LINKS' section with 'No related links'.

A 'COLLECTIONS' sidebar is overlaid on the right, showing a tree structure under 'My Collections' with items: 'DataWarp Administration Tools' (containing 'dwcli(8)', 'dwstat(1)', 'xtcheckssd(8)', 'xtiossdfish(8)', and 'xtssdconfig(8)'), and 'Group Collections'. A context menu is open over the 'DataWarp Administration Tools' collection, listing actions: 'Export...', 'Rename...', 'Duplicate...', 'Delete...', 'Share...', 'Undo', and 'Redo'.

Personal PDF



The image shows a screenshot of a PDF viewer interface. On the left side, there is a "Bookmarks" panel with a list of items:

- Contents
- dwcli(8)
- dwstat(1)
- xtcheckssd(8)
- xtiossdfash(8)
- xtssdconfig(8)

The main area of the viewer displays the cover page of a document. The cover page features a background of a grid of small, light gray circles that create a 3D effect. The CRAY logo is centered at the top. Below it, the title "DataWarp Administration Tools" is written in a bold, blue, sans-serif font. At the bottom right of the cover page, the text "DataWarp Administration Tools" is repeated in a smaller, blue, sans-serif font.



CRAY ADMIN ANALYTICS COLLABORATE MANAGER USERS DITAweb by Mekon

peggy

ANALYTICS

From 12 February 2015
To 13 March 2015

Publication: All Publications

Select Range: Last 30 days

Start Date: February 2015

Mo	Tu	We	Th	Fr
2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27

End Date: March 2015

Mo	Tu	We	Th	Fr
2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27
30	31			

Submit

USAGE SUMMARY

Site Usage		Registered Users	
Visits	266	Visits	98
Visitors	174	Visitors	6
Pages Viewed	2867	Pages Viewed	1149
Page Views Per Visit	10.78	Page Views Per Visit	11.72
Avg. Time	00:09:06	Avg. Time	04:24:09

METRICS

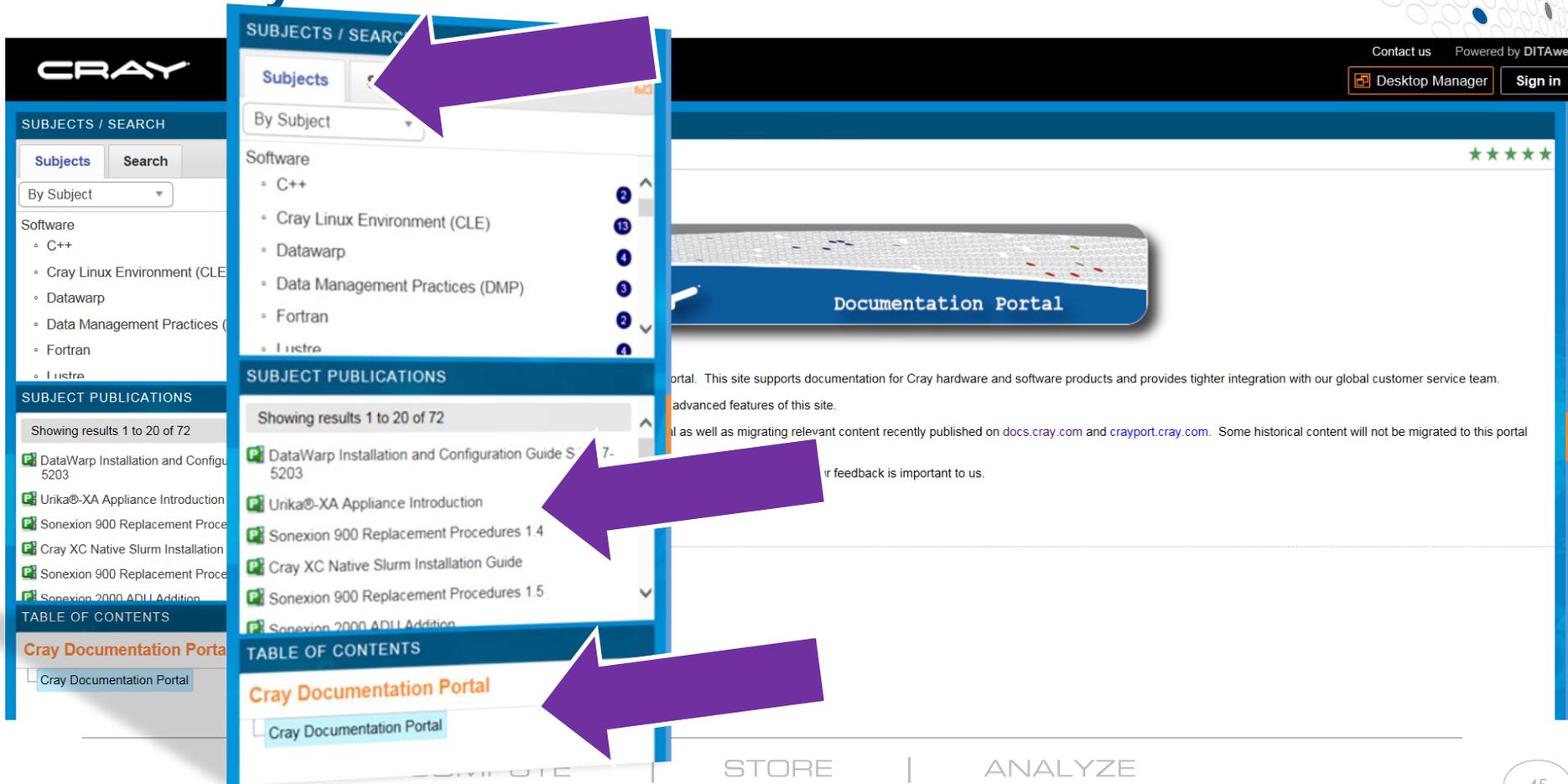
Analytics Daily Summary | Publications | Top Pages | Search

Chart | Table

Date	Visits	Visitors
14/2	0	0
16/2	17	12
18/2	22	16
20/2	13	11
22/2	9	8
24/2	23	22
26/2	10	7
28/2	17	14
30/2	13	10
1/3	2	1
3/3	1	0
5/3	11	11
7/3	0	0
8/3	17	17
10/3	12	10
12/3	14	12

Visits/Visitors | Pages Viewed | Time on site

Summary



The screenshot shows the Cray Documentation Portal interface. The main navigation bar includes 'Contact us', 'Powered by DITAWe', 'Desktop Manager', and 'Sign in'. The left sidebar contains 'SUBJECTS / SEARCH' and 'SUBJECT PUBLICATIONS'. The main content area features a 'Documentation Portal' banner and a list of publications. Three purple arrows point to specific elements: the 'Subjects' tab, the 'By Subject' dropdown menu, and the 'Cray Documentation Portal' link in the table of contents.

Navigation and Search:

- Subjects
- Search
- By Subject

Software Categories:

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

Subject Publications:

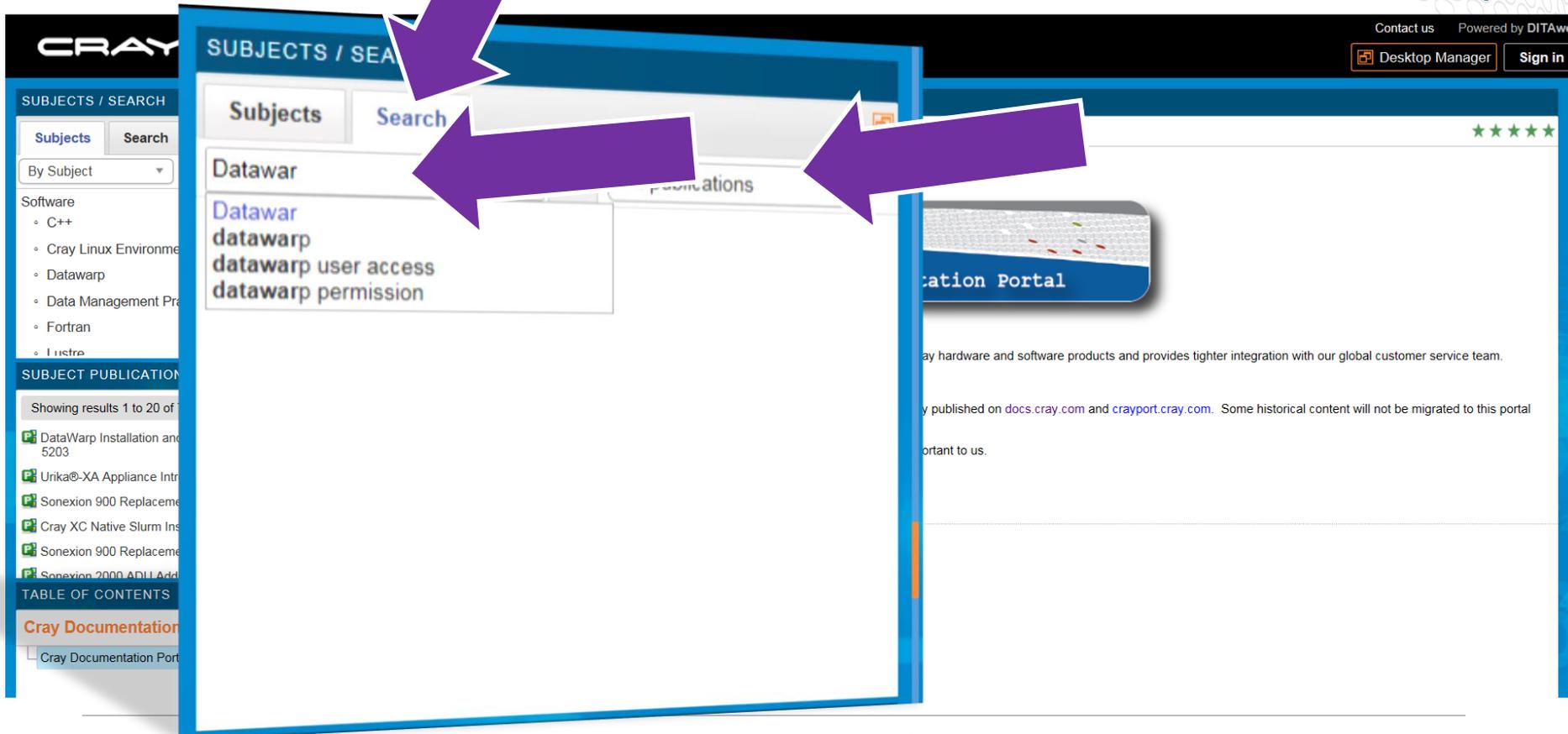
Showing results 1 to 20 of 72

- DataWarp Installation and Configuration Guide S 5203
- Unika®-XA Appliance Introduction
- Sonexion 900 Replacement Procedures 1.4
- Cray XC Native Slurm Installation Guide
- Sonexion 900 Replacement Procedures 1.5
- Sonexion 2000 ADU Addition

Table of Contents:

- Cray Documentation Portal

Summary



The screenshot shows the Cray website's search interface. At the top right, there are links for "Contact us" and "Powered by DITAwe", along with buttons for "Desktop Manager" and "Sign in". The main navigation bar includes "SUBJECTS / SEARCH". Below this, there are tabs for "Subjects" and "Search". A search dropdown menu is open, showing a list of search results under the heading "Datawar". The results include "datawarp", "datawarp user access", and "datawarp permission". To the left of the search bar, there is a sidebar with a "Subjects" section containing a list of software categories: C++, Cray Linux Environment, Datawarp, Data Management Platform, Fortran, and Lustre. Below the sidebar, there is a "SUBJECT PUBLICATION" section showing "Showing results 1 to 20 of" and a list of publications with green document icons. At the bottom of the page, there is a navigation bar with the text "COMPUTE | STORE | ANALYZE".

COMPUTE

STORE

ANALYZE

SUBJECTS / SEARCH

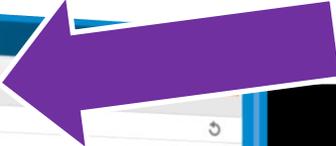
Subjects Search Titles

A Welcome Page

- Cray Documentation Portal

Public

- Aries Hardware Counters
- Aries™ Network Tech Note - Application Changes to Avoid Network Congestion S-0048-B
- C and C++ Reference Manual (S-2179-84)
- CLE Installation and Configuration Guide S-2444-5204
- CLE Release Overview Supplement (S-2497-5204)
- CLE User Application Placement Guide S-2496-5204
- CLE XC System Administration Guide S-2393-5203-XC
- CLE XC™ System Administration Guide S-2393-5204xc
- CLE XC™ System Network Resiliency Guide S-0041-E
- CLE XE™ and XK™ System Administration Guide S-2393-5204xx
- Configure Cray SEC Software (S-2542-7204)
- Configure Cray SEC Software (S-2542-7204)
- Cray Chilled Door Operator Guide
- Cray Compiling Environment Release Overview and Installation Guide (S-5212-84)
- Cray XC Native Slurm Installation Guide
- CS-Storm Hardware Guide
- CS-Storm Hardware Repair Procedures
- CS-Storm Rack Conversion Kits
- CS400 iSCB User Guide
- CS400-AC Hardware Guide
- CS400-LC Hardware Guide



CRAY

SUBJECTS / SEARCH

Subjects Search

By Subject

Software

- C++
- Cray Linux Env
- Datawarp
- Data Management
- Fortran
- Linux

SUBJECT PUBLIC

Showing results 1 to 10

- DataWarp Installation 5203
- Unika®-XA Application
- Sonexion 900 Release
- Cray XC Native Slurm
- Sonexion 900 Release
- Sonexion 2000 Application

TABLE OF CONTENTS

Cray Documentation

- Cray Documentation

Contact us Powered by DITAWeaver

Desktop Manager Sign in

Documentation Portal

Documentation Portal

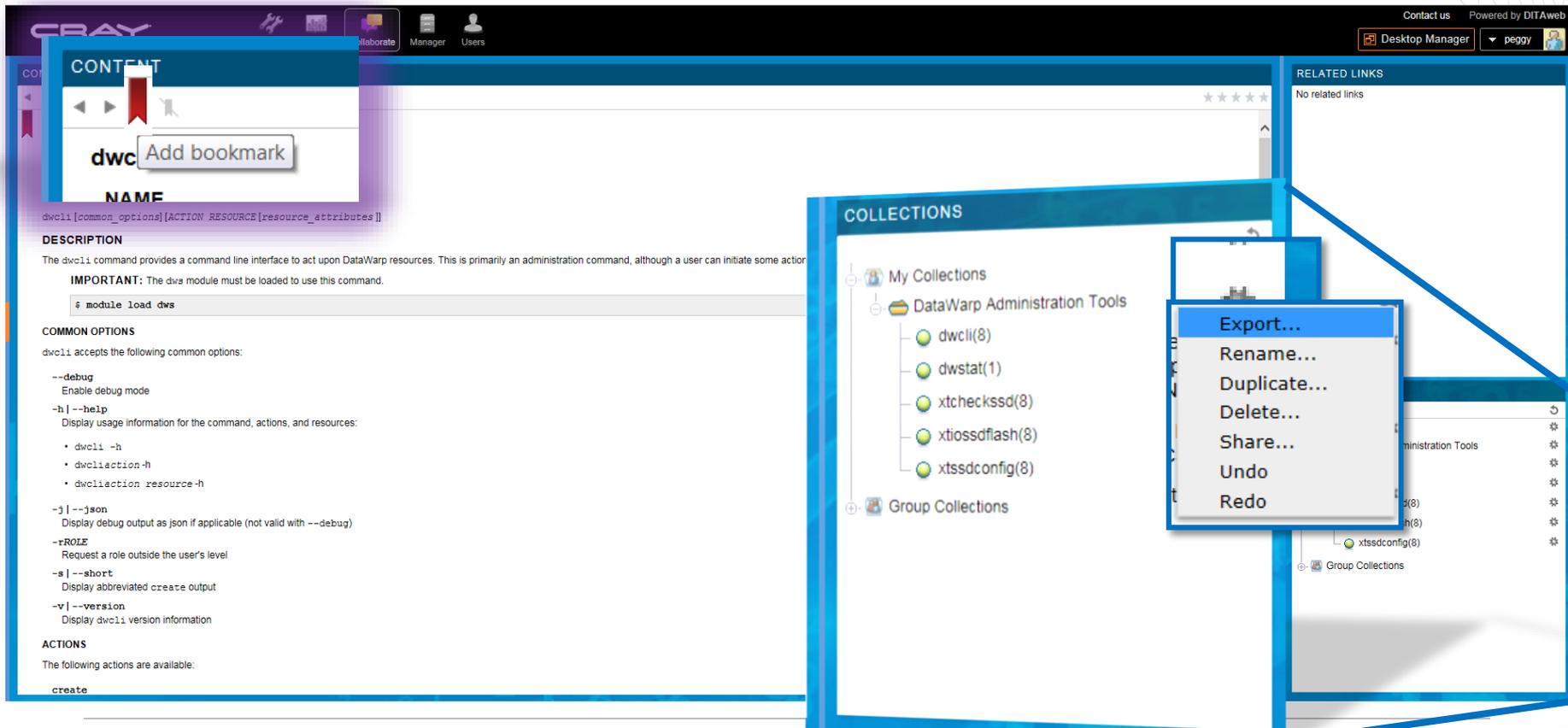
Documentation portal. This site supports documentation for Cray hardware and software products and provides tighter integration with our global customer service team.

about the advanced features of this site.

the portal as well as migrating relevant content recently published on docs.cray.com and crayport.cray.com. Some historical content will not be migrated to this portal as of 12/15/2015.

Contact Us link on this website. Your feedback is important to us.

Curate Your Own Content



The screenshot displays the CRAY user interface with several key components:

- Navigation Bar:** Includes 'Contact us', 'Powered by DITAweb', 'Desktop Manager', and a user profile 'peggy'.
- CONTENT Panel:** Shows a search bar with 'dwc' entered and an 'Add bookmark' button. Below is the command syntax: `dwc1 [common_options][ACTION_RESOURCE[resource_attributes]]`.
- DESCRIPTION:** Explains that the `dwc1` command provides a command line interface for DataWarp resources. It includes an **IMPORTANT** note: 'The `dws` module must be loaded to use this command.' Below this is a terminal snippet: `module load dws`.
- COMMON OPTIONS:** Lists options such as `--debug`, `-h | --help`, `-j | --json`, `-rROLE`, `-s | --short`, and `-v | --version`.
- ACTIONS:** Lists available actions, including `create`.
- COLLECTIONS Panel:** Displays a tree view under 'My Collections' with items like 'DataWarp Administration Tools' containing sub-items: `dwcli(8)`, `dwstat(1)`, `xtcheckssd(8)`, `xtiossdfash(8)`, and `xtssdconfig(8)`.
- Context Menu:** A blue-bordered menu is open over the 'DataWarp Administration Tools' collection, listing actions: 'Export...', 'Rename...', 'Duplicate...', 'Delete...', 'Share...', 'Undo', and 'Redo'.
- RELATED LINKS:** Shows 'No related links'.

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ABOUT THE DATAWARP ADMINISTRATION GUIDE

Scope, audience, release information

This publication covers administrative tasks for Cray XC™ series systems installed with DataWarp SSD cards; it is intended for system administrators.

Release Information

This is the initial release of this publication; it supports DataWarp with the DataWarp Service on Cray XC™ series systems running Cray software release CLE5.2.UPO4. It does not support Static DataWarp. See [Important Information about this DataWarp Release](#).

Typographic Conventions

Monospace

Indicates program code, reserved words, library functions, command-line prompts, screen output, file/path names, key strokes (e.g., **Enter** and **Alt-Ctrl-F**), and other software constructs.

Monospaced Bold

Indicates commands that must be entered on a command line or in response to an interactive prompt.

Oblique or *Italics*

Indicates user-supplied values in commands or syntax definitions.

Proportional Bold

Indicates a graphical user interface window or element.

\ (backslash)

At the end of a command line, indicates the Linux® shell line continuation character (lines joined by a backslash are parsed as a single line). Do not type anything after the backslash or the continuation feature will not work correctly.

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DWCLI(8)

Reference page for dwcli

NAME

dwcli - Command line interface for DataWarp

SYNOPSIS

dwcli [*common_options*] [*ACTION RESOURCE* [*resource_attributes*]]

DESCRIPTION

The dwcli command provides a command line interface to act upon DataWarp resources. This is primarily an administration command, although a user can initiate some actions using it. With full WLM support, a user does not have a need for this command.

Important:

The `dws` module must be loaded to use this command.

```
$ module load dws
```

COMMON OPTIONS

dwcli accepts the following common options:

--debug

Enable debug mode

-h | --help

Display usage information for the command, actions, and resources:

- dwcli -h
- dwcli *action* -h
- dwcli *action resource* -h

-j | --json

Display debug output as json if applicable (not valid with



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DataWarp with DWS: Verify the DataWarp Configuration

Enable the Node Health Checker DataWarp Test

Manage Log Files

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UPDATE DWS CONFIGURATION FILES

The files an admin can modify

There are three DataWarp Service (DWS) configuration files:

1. The scheduler configuration file: `/etc/opt/cray/dws/dwsd.yaml`
2. The manager daemon configuration file: `/etc/opt/cray/dws/dwmd.yaml`
3. The API gateway configuration file: `/etc/opt/cray/dws/dwrest.yaml`

Use `xtopview` to modify any of these files from within the shared root. For the changes to take affect, exit `xtopview` and either restart or send `SIGHUP` to the corresponding daemon(s).

The DataWarp Service Daemon (`dwsd`)

The `dwsd`, which runs on the `sdb` node, reads `/etc/opt/cray/dws/dwsd.yaml` at startup and when it receives the `SIGHUP` signal. For example, if a change is made to `dwsd.yaml`:

```
boot:# ssh sdb
sdb:# kill -HUP $(
sdb:# tail -5 /var/opt/cray/dws/log/dwsd.log
2015-09-17 14:15:26 ===== Event on fd 4
2015-09-17 14:15:26 Caught signal Hangup
2015-09-17 14:15:26 vvvvvvvvv Configuration Delta Summary vvvvvvv
2015-09-17 14:15:26 log_mask: 0x7 -> 0x587
2015-09-17 14:15:26 ^^^^^^^^^ End Configuration Delta Summary ^^^
```

The DataWarp Manager Daemon (`dwmd`)

The `dwmd`, which runs on each SSD-endowed node, reads `/etc/opt/cray/dws/dwmd.yaml` at startup and when it receives the `SIGHUP` signal. For example, if a change is made to `dwmd.yaml`:

```
boot:# ssh nid00777
nid00777:# kill -HUP $(
nid00777:# tail -4 /var/opt/cray/dws/log/dwmd.log
2015-09-17 14:21:54 (31678) Caught signal Hangup
2015-09-17 14:21:54 (31678) vvvvvvvvv Configuration Delta Summary vvvvvvv
2015-09-17 14:21:54 (31678) log_mask: 0xfffff -> 0xf
2015-09-17 14:21:54 (31678) ^^^^^^^^^ End Configuration Delta Summary ^^^
```

On systems with many SSDs, it may be necessary to send `SIGHUP` to `dwmd` daemons on many nodes. The

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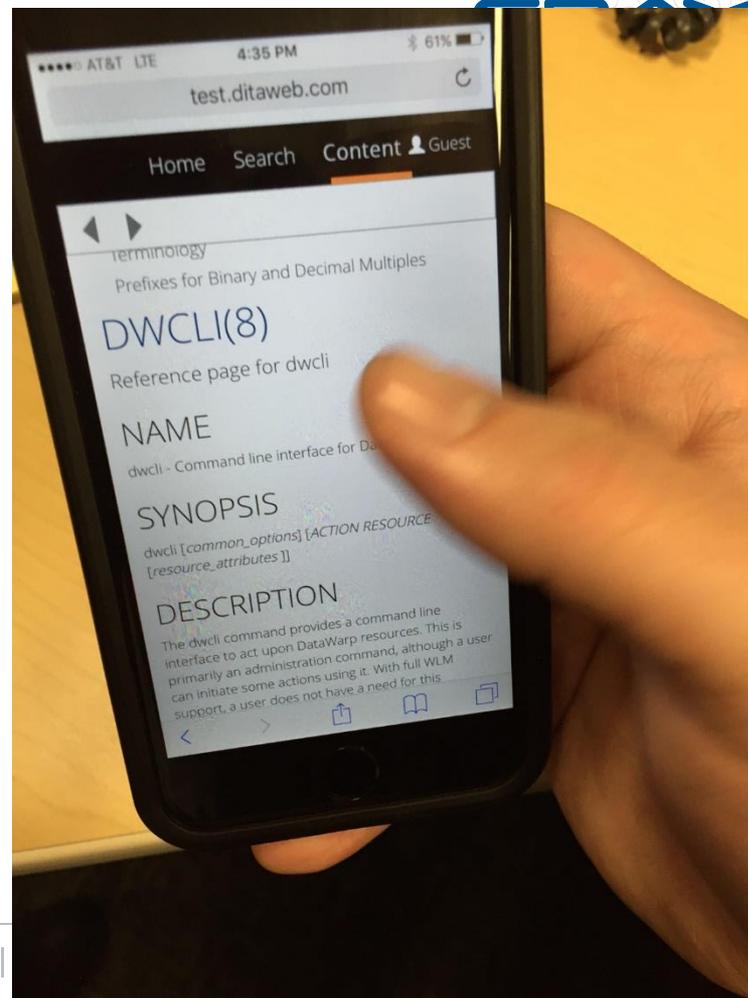
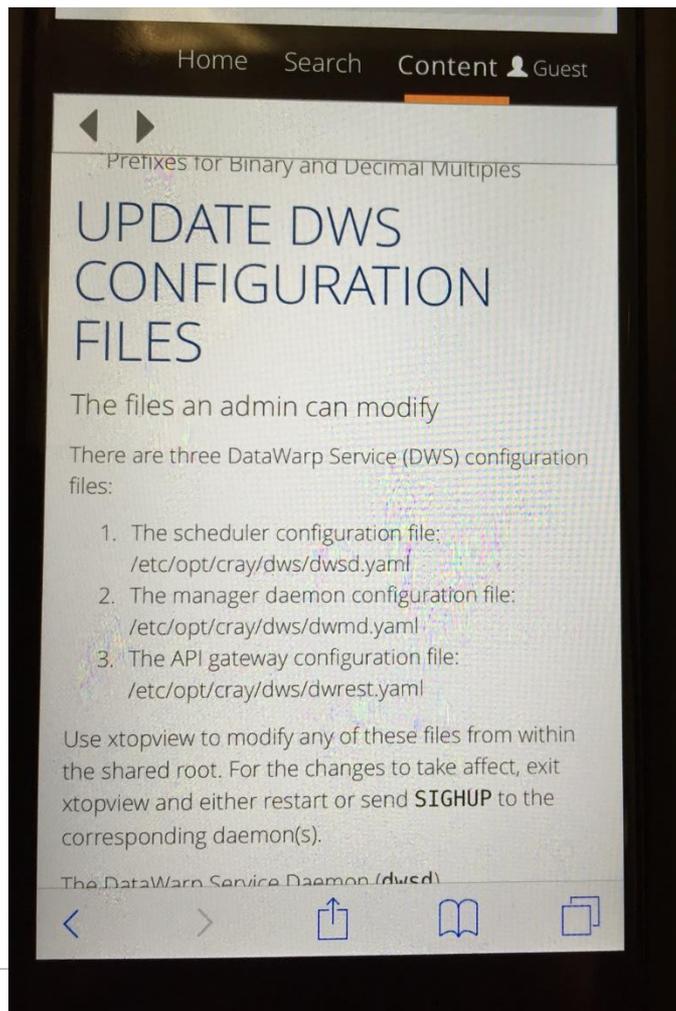
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2015-09-17 14:21:54 (31678) log_mask: 0xfffff -> 0xf
2015-09-17 14:21:54 (31678) ^^^^^^^^^ End Configuration Delta Summary ^^^
```

On systems with many SSDs, it may be necessary to send `SIGHUP` to `dwmd` daemons on many nodes. The following command generates a file that contains identifiers that can be used with `pcmd` to perform the `SIGHUP` in parallel:



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2015-09-17 14:15:26 log_mask: 0x7 -> 0x587
2015-09-17 14:15:26 ^^^^^^^^^ End Configuration Delta Summary ^^^
```

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