

z/OS Documentation:

Navigating IBM Knowledge Center and Beyond

Rita Beisel (beisel@us.ibm.com)

Toshiba Burns-Johnson (tlburnsj@us.ibm.com)

Sue Shumway (chalensk@us.ibm.com)

Geoffrey K. Smith (gksmith@us.ibm.com)

June 15, 2015 – Enterprise Computing Community Conference



Agenda

- Overview of IBM Knowledge Center
- Getting Started
- Navigating Content and the Table of Contents View
- Creating Customized Views and Documents with the My Collections View
- Social Features
- Searching Content and the Search Results View
- Using Multiple Tools and Methods to Enhance Search Results
- New and Upcoming Documentation Solutions



Overview of IBM Knowledge Center

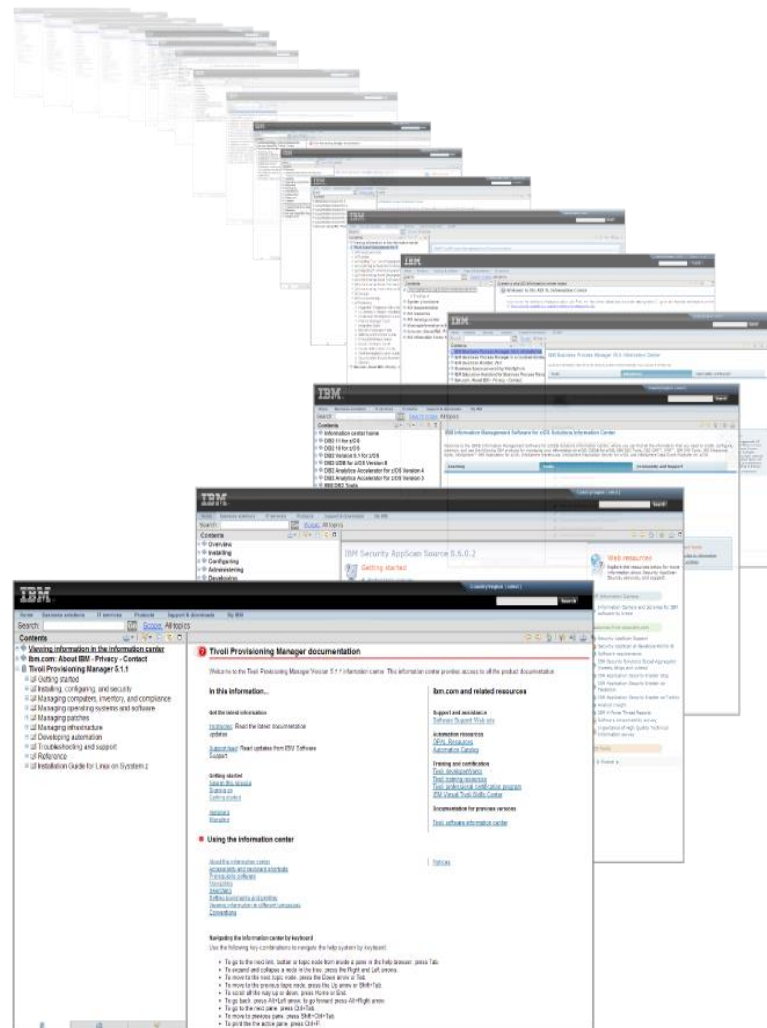
IBM technical publications at ibm.com: A large volume of documentation

Information centers: Technical publications

- More than 2200 IBM products
- More than 850 individual URLs at ibm.com
- More than 60M individual pages
- More than 30 languages across information centers
- More than 60M total unique visitors per year
- More than 200M internal search queries (queries within the information center search framework, not organic searches to get to the information center) per year

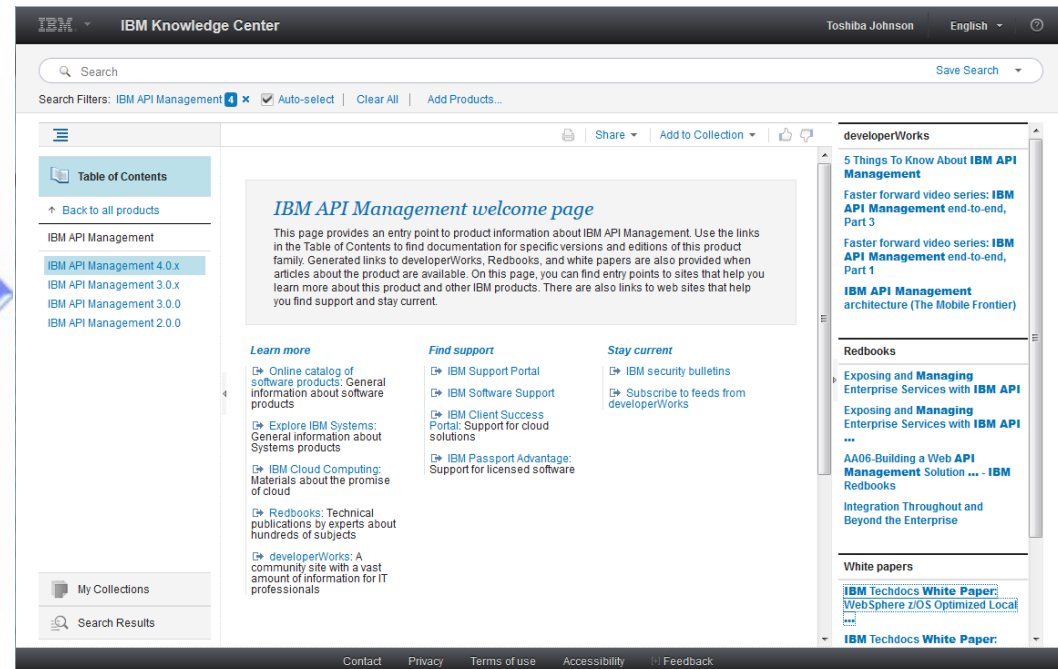
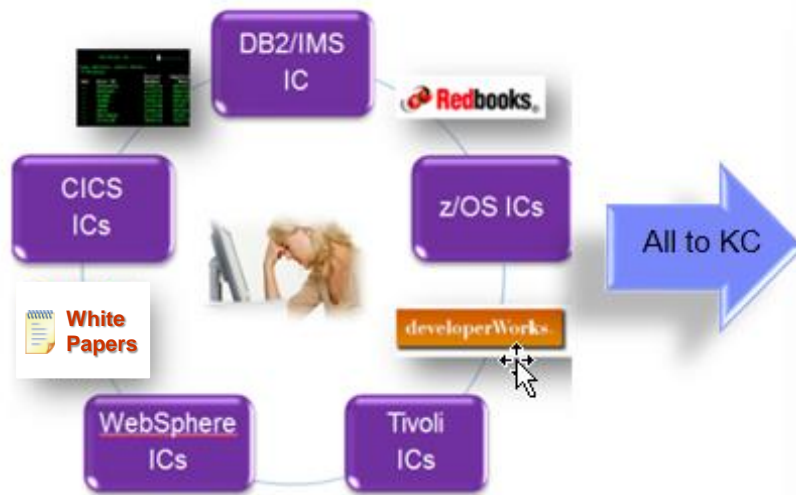
Information centers: User experience

- Too many individual sites to work with multiple IBM products
- Inconsistent user experience from information center to information center
- Potentially poor search relevance, and searching is impossible across product information centers
- Performance and availability issues



IBM Knowledge Center: One stop shopping for all IBM documentation

IBM Knowledge Center is one central repository that contains ALL IBM product documentation. It contains all the existing information centers and other materials in a single application, at a single URL.



Getting Started

Opening IBM Knowledge Center

IBM Knowledge Center: www.ibm.com/support/knowledgecenter/

The screenshot shows the IBM Knowledge Center homepage. The top navigation bar includes the IBM logo, the text "IBM Knowledge Center", and links for "Sign In", "English", and a help icon. Below the navigation bar is a search bar with a magnifying glass icon and the text "Search". To the right of the search bar is a "Save Search" button. Below the search bar is a section for "Search Filters" with the text "No products selected." and checkboxes for "Auto-select" and "Add Products...". On the left side of the page is a "Table of Contents" sidebar with a list of products: Algorithms, CICS, Clarity Systems, Cloud & Smarter Infrastructure, Cluster software, Cognos, Collaboration Solutions, Enterprise Content Management, ExperienceOne, Financial Operations, IBM Operating Systems, Information Management, OpenPages, Other Software, Platform Computing, Power Systems, PureSystems, and Rational. Below the products list are sections for "My Collections" and "Search Results". The main content area features the heading "IBM Knowledge Center" and a welcome message: "Welcome to the new home for IBM product documentation. Customize IBM Knowledge Center to design the experience that you want with the technology, products, and versions that you use and by creating your own collection of documents. You can also interact with IBM and with your colleagues by sharing through email, LinkedIn, or Twitter or by adding comments to topics." Below the welcome message are three columns of links: "Getting Started" (with a right arrow icon), "My Knowledge Center" (with a book icon), and "Resources" (with a person icon). The "Getting Started" column includes links for "Search tips", "Searching within a product", and "Setting filters". The "My Knowledge Center" column includes links for "Signing in", "Creating your collections", "Adding comments", and "Sharing topics". The "Resources" column includes links for "IBM Support Portal", "IBM Client Success Portal", "IBM Technical Content Twitter site", and "IBM Technical Content Blog". At the bottom of the page is a footer with links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

IBM Knowledge Center

Search

Search Filters: No products selected. ☒ Auto-select | Add Products...

Table of Contents

Products

- Algorithms
- CICS
- Clarity Systems
- Cloud & Smarter Infrastructure
- Cluster software
- Cognos
- Collaboration Solutions
- Enterprise Content Management
- ExperienceOne
- Financial Operations
- IBM Operating Systems
- Information Management
- OpenPages
- Other Software
- Platform Computing
- Power Systems
- PureSystems
- Rational

My Collections

Search Results

English | Share

IBM Knowledge Center

Welcome to the new home for IBM product documentation. Customize IBM Knowledge Center to design the experience that you want with the technology, products, and versions that you use and by creating your own collection of documents. You can also interact with IBM and with your colleagues by sharing through email, LinkedIn, or Twitter or by adding comments to topics.

Getting Started

Search tips: Search through all the content in IBM Knowledge Center for subjects that interest you.

Searching within a product: Restrict your search to one or more products or to one version of a product.

Setting filters: Set filters to define your own personal search preferences.

My Knowledge Center

Signing in: Sign in to take advantage of the personal features available in IBM Knowledge Center.

Creating your collections: Gather collections of documents that you use regularly.

Adding comments: Communicate with colleagues and IBM by adding comments to topics.

Sharing topics: Communicate with others by sharing links through email, LinkedIn, or Twitter.

Resources

IBM Support Portal: IBM Support Portal is your starting point for information about product downloads, troubleshooting, service requests, and communities.

IBM Client Success Portal: IBM support services provides a support page for users entitled to access support for specific cloud products. You need authorization to use this resource.

IBM Technical Content Twitter site: You can subscribe to receive tweets about IBM Knowledge Center technical content.

IBM Technical Content Blog: You can participate in a blog about IBM Knowledge Center technical content.

[See the IBM Knowledge Center Terms and Conditions](#)

Contact Privacy Terms of use Accessibility Feedback

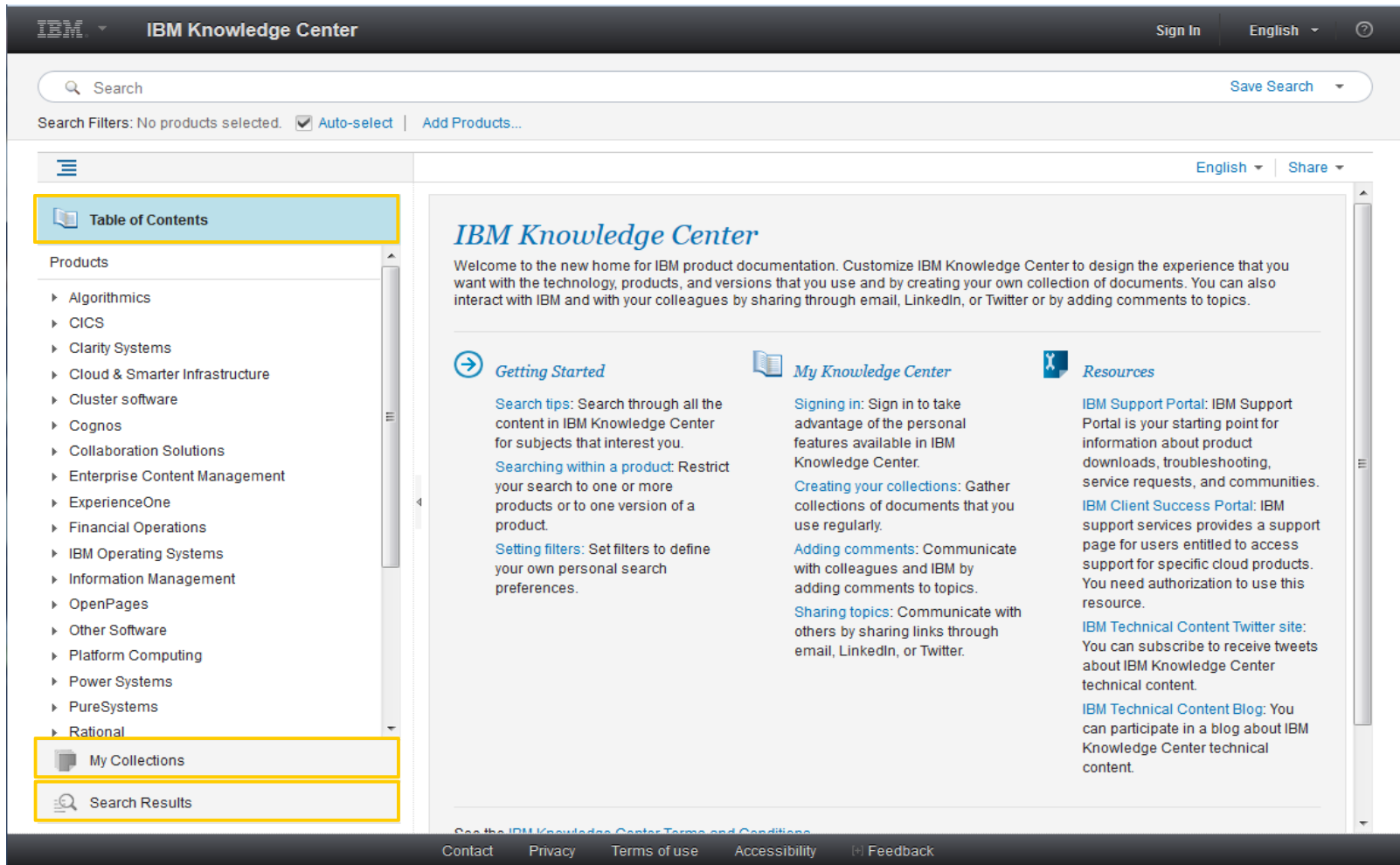
Signing in to IBM Knowledge Center

Sign in to IBM Knowledge Center using your ibm.com user ID and password. Among other benefits, signing in allows you to save search queries and create persistent, personalized collections.

The screenshot shows the IBM Knowledge Center homepage. A 'Sign In' button is highlighted in the top right corner with a yellow callout that says: "Click **Sign in** to log in to IBM Knowledge Center." A 'Register' button is highlighted in the bottom left of the sign-in modal with a yellow callout that says: "Click **Register** to create an ibm.com user ID and password." The sign-in modal contains fields for 'IBM ID' and 'Password', with links for 'Forgot IBM ID?' and 'Forgot password?'. The background shows a search bar, a table of contents, and various product categories.

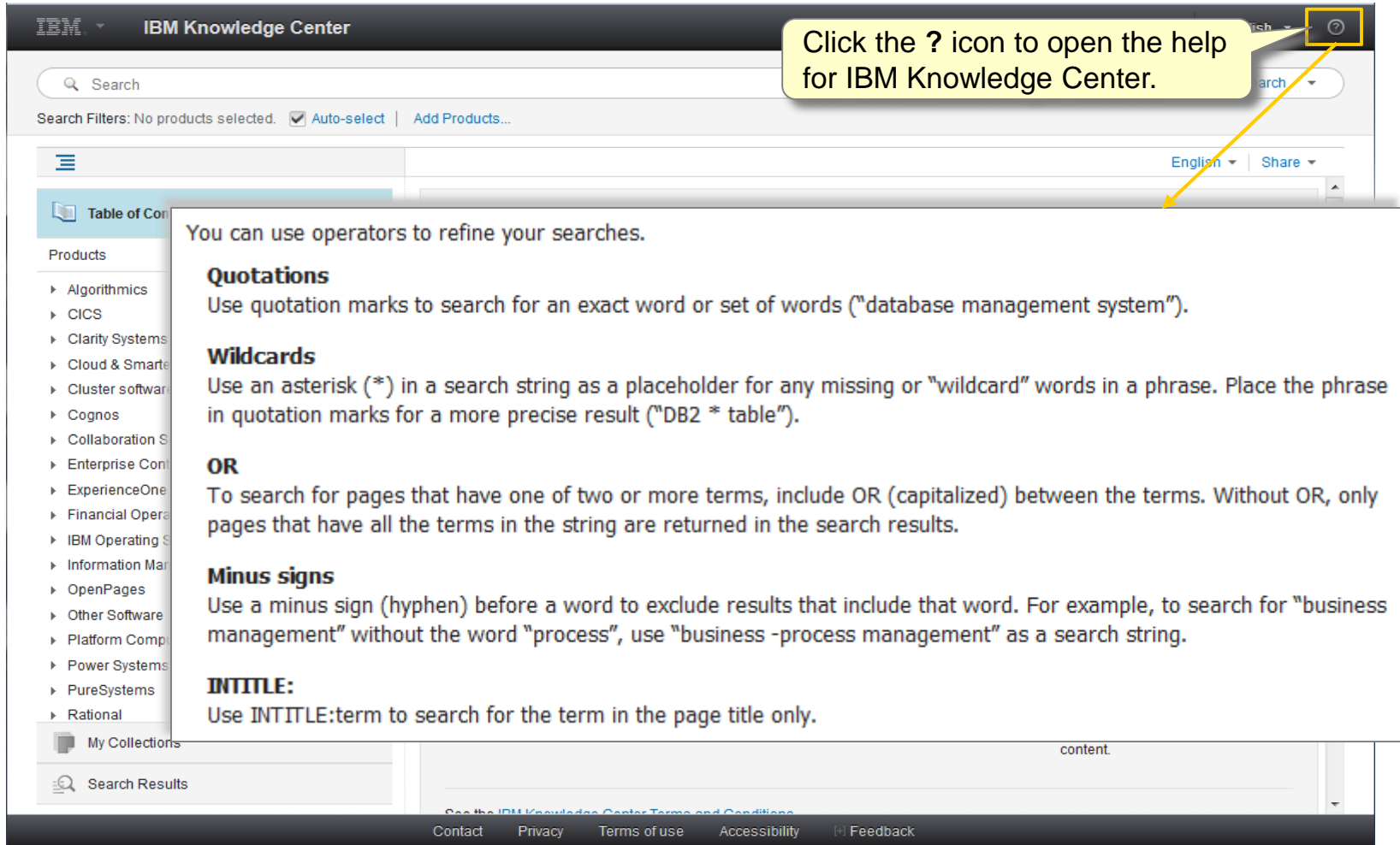
Utilizing the three main views

IBM Knowledge Center provides three views: Table of Contents, My Collections, and Search Results. To switch between them, click the section header for the view that you want to open.



Getting help in IBM Knowledge Center

IBM Knowledge Center provides an integrated help system that explains how to use various aspects of the interface including searching, sharing topics, and providing feedback.



The screenshot shows the IBM Knowledge Center interface. At the top, there's a dark header with the IBM logo and "IBM Knowledge Center". Below this is a search bar with a magnifying glass icon and the word "Search". To the right of the search bar, there's a language dropdown set to "English" and a "Share" button. A yellow callout box with a question mark icon and the text "Click the ? icon to open the help for IBM Knowledge Center." points to a small question mark icon in the top right corner. On the left side, there's a "Table of Contents" section with a list of products: Algorithms, CICS, Clarity Systems, Cloud & Smart, Cluster software, Cognos, Collaboration S, Enterprise Con, ExperienceOne, Financial Opera, IBM Operating S, Information Mar, OpenPages, Other Software, Platform Comp, Power Systems, PureSystems, and Rational. Below this is a "My Collections" section. The main content area displays a help overlay titled "You can use operators to refine your searches." which includes sections on Quotations, Wildcards, OR, Minus signs, and INTITLE:.

IBM Knowledge Center

Search

Search Filters: No products selected. ☒ Auto-select | [Add Products...](#)

English | Share

Table of Contents

Products

- ▶ Algorithms
- ▶ CICS
- ▶ Clarity Systems
- ▶ Cloud & Smart
- ▶ Cluster software
- ▶ Cognos
- ▶ Collaboration S
- ▶ Enterprise Con
- ▶ ExperienceOne
- ▶ Financial Opera
- ▶ IBM Operating S
- ▶ Information Mar
- ▶ OpenPages
- ▶ Other Software
- ▶ Platform Comp
- ▶ Power Systems
- ▶ PureSystems
- ▶ Rational

My Collections

Search Results

You can use operators to refine your searches.

Quotations
Use quotation marks to search for an exact word or set of words ("database management system").

Wildcards
Use an asterisk (*) in a search string as a placeholder for any missing or "wildcard" words in a phrase. Place the phrase in quotation marks for a more precise result ("DB2 * table").

OR
To search for pages that have one of two or more terms, include OR (capitalized) between the terms. Without OR, only pages that have all the terms in the string are returned in the search results.

Minus signs
Use a minus sign (hyphen) before a word to exclude results that include that word. For example, to search for "business management" without the word "process", use "business -process management" as a search string.

INTITLE:
Use INTITLE:term to search for the term in the page title only.

[See the IBM Knowledge Center Terms and Conditions](#)

[Contact](#) [Privacy](#) [Terms of use](#) [Accessibility](#) [Feedback](#)

Navigating Content and the Table of Contents View

Navigating to the z/OS content

z/OS documentation is located in the Table of Contents under *IBM Operating Systems > System z Operating Systems > z/OS*.

The screenshot displays the IBM Knowledge Center interface. At the top, the header includes the IBM logo, the text "IBM Knowledge Center", the user name "Toshiba Johnson", and a language dropdown set to "English". Below the header is a search bar with the text "Search" and a "Save Search" button. Under the search bar, it says "Search Filters: No products selected." with checkboxes for "Auto-select" and a link for "Add Products...".

On the left side, there is a "Table of Contents" sidebar. It lists various categories: "Clarity Systems", "Cloud & Smarter Infrastructure", "Cluster software", "Cognos", "Collaboration Solutions", "Enterprise Content Management", "ExperienceOne", "Financial Operations", "IBM Operating Systems" (highlighted with a yellow box), "AIX", "IBM i", "Education Assistant for IBM Operating Syst", "Linux on IBM Systems", "System z Operating Systems" (highlighted with a yellow box), "z/OS" (highlighted with a yellow box), "z/OS Basic Skills", "z/VM", and "Transaction Processing Facility Databa". Below the sidebar are sections for "My Collections" and "Search Results".

The main content area is titled "IBM Knowledge Center" and includes a welcome message: "Welcome to the new home for IBM product documentation. Customize IBM Knowledge Center to design the experience that you want with the technology, products, and versions that you use and by creating your own collection of documents. You can also interact with IBM and with your colleagues by sharing through email, LinkedIn, or Twitter or by adding comments to topics." Below this, there are three columns of links: "Getting Started" (with links for Search tips, Searching within a product, and Setting filters), "My Knowledge Center" (with links for Signing in, Creating your collections, Adding comments, and Sharing topics), and "Resources" (with links for IBM Support Portal, IBM Client Success Portal, IBM Technical Content Twitter site, and IBM Technical Content Blog).

At the bottom of the page, there is a footer with links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

Navigating to the z/OS content

The z/OS product page lists the available content by release and highlights z/OS–specific content from developerWorks, IBM Redbooks, and white papers. To navigate to z/OS content more quickly in the future, bookmark the z/OS product page or a z/OS release-specific page.

The screenshot shows the IBM Knowledge Center interface for the z/OS product page. The page layout includes a top navigation bar with the IBM logo, 'Sign In', and 'English'. Below this is a search bar and a filter section showing 'z/OS' as the selected filter. The main content area is titled 'z/OS welcome page' and provides an overview of the product information available. On the left, a 'Table of Contents' sidebar lists various z/OS releases, with a callout highlighting the URL for the z/OS V2R1 content. On the right, a sidebar lists related content from developerWorks, Redbooks, and White papers, with a callout highlighting the URL for the z/OS product page. The bottom of the page features a footer with links for Contact, Privacy, Terms of use, Accessibility, and Feedback.

URL for the z/OS product page:
www.ibm.com/support/knowledgecenter/SSLTBW

URL for the z/OS V2R1 content:
www.ibm.com/support/knowledgecenter/SSLTBW_2.1.0

Using the Table of Contents to navigate z/OS documentation

The Table of Contents contains a hierarchical structure just like the z/OS information center. The top-level node is the z/OS element followed by each book and the topics within a book.

The screenshot displays the IBM Knowledge Center interface. At the top, the header includes the IBM logo, 'IBM Knowledge Center', the user name 'Toshiba Johnson', and a language dropdown set to 'English'. Below the header is a search bar with a magnifying glass icon and a 'Save Search' button. Under the search bar, search filters are shown: 'z/OS 2.1.0' (selected), 'Auto-select' (checked), 'Clear All', and 'Add Products...'. The main content area is divided into a left sidebar and a right pane. The sidebar, titled 'Table of Contents', shows a hierarchical tree of topics. The path 'z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products' is highlighted. The right pane displays the selected topic, 'Identifying modules, components, and products', with a breadcrumb trail at the top. The content includes a paragraph explaining the topic's purpose, a list of three links for further information, and a section titled 'Each table contains the following sections:' followed by a list of three items: 'Module prefix', 'Component name', and 'Product ID'. The footer of the page contains links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Feedback'.

IBM Knowledge Center

Toshiba Johnson English

Search

Save Search

Search Filters: z/OS 2.1.0 Auto-select Clear All Add Products...

Table of Contents

- z/OS Language Environment
- Library Server
- z/OS Metal C Runtime Library
- z/OS MVS
 - z/OS Batch Runtime Planning and User's C
 - z/OS MVS Capacity Provisioning User's Gui
 - z/OS MVS Device Validation Support
 - z/OS MVS Diagnosis: Reference
 - Summary of changes for z/OS Version 2
 - Summary of changes for z/OS Version 2
 - System Reference
 - Identifying modules, components, and products
 - Specifying symptoms
 - SYSEVENTs
 - SVC summary
 - Program call services in the system
 - Serialization summary
 - Status indicators for system resource
 - Storage summary

My Collections

Search Results

z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products

Identifying modules, components, and products

This topic contains information to help you identify module, component, and product information related to where an error is occurring. The three tables contain the same information, indexed three different ways. Use the tables as follows:

- [Relating a module prefix to component and product](#)
- [Relating component name to module, component, and product](#)
- [Relating component ID to component name, module prefix, and product.](#)

Each table contains the following sections:

- Module prefix:** The module prefix is the first three or more characters in:
 - CSECT name
 - Entry point name
 - Macro name
 - Module name

The name of a module or macro owned by IBM® usually begins with the characters A through I. There are a few exceptions beginning with S or X.

- Component name:** The component name shows the component associated with the module prefix. In some cases, this section shows the name of a command or macro.
- Product ID:** The product ID is a number identifying the product that a component is associated with. Each separately orderable product has a unique product ID.
- Component ID:** The component ID is an alphanumeric identifier unique for each component.

Contact Privacy Terms of use Accessibility Feedback

Using the Table of Contents to navigate z/OS documentation – automatic search filter updates

Navigating through products adds them to product search filters – automatically! That is, when you search, your search results will be filtered for the version and release of the product's content that you are navigating.

The screenshot displays the IBM Knowledge Center interface. At the top, the header includes the IBM logo, 'IBM Knowledge Center', the user name 'Toshiba Johnson', and the language 'English'. Below the header is a search bar with a magnifying glass icon and a 'Save Search' button. Under the search bar, a 'Search Filters' section is highlighted with a yellow box, showing 'z/OS 2.1.0' with a close icon, and buttons for 'Auto-select', 'Clear All', and 'Add Products...'. The main content area is divided into a left sidebar and a right pane. The sidebar contains a 'Table of Contents' section with a tree view. The tree view shows the following structure: 'z/OS Language Environment', 'Library Server', 'z/OS Metal C Runtime Library', 'z/OS MVS' (expanded), 'z/OS Batch Runtime Planning and User's C...', 'z/OS MVS Capacity Provisioning User's Gui', 'z/OS MVS Device Validation Support', 'z/OS MVS Diagnosis: Reference' (expanded), 'Summary of changes for z/OS Version 2', 'Summary of changes for z/OS Version 2', 'System Reference' (expanded), 'Identifying modules, components, a...' (selected), 'Specifying symptoms', 'SYSEVENTS', 'SVC summary', 'Program call services in the system', 'Serialization summary', 'Status indicators for system resourc', and 'Storage summary'. The right pane shows the breadcrumb path 'z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products'. The main heading is 'Identifying modules, components, and products'. The text below the heading states: 'This topic contains information to help you identify module, component, and product information related to where an error is occurring. The three tables contain the same information, indexed three different ways. Use the tables as follows:'. There are three links: 'Relating a module prefix to component and product', 'Relating component name to module, component, and product', and 'Relating component ID to component name, module prefix, and product'. Below the links, it says 'Each table contains the following sections:'. There are three sections: 'Module prefix: The module prefix is the first three or more characters in: CSECT name, Entry point name, Macro name, Module name', 'Component name: The component name shows the component associated with the module prefix. In some cases, this section shows the name of a command or macro.', and 'Product ID: The product ID is a number identifying the product that a component is associated with. Each separately orderable product has a unique product ID.' There is also a section for 'Component ID: The component ID is an alphanumeric identifier unique for each component. For component...'. At the bottom of the page, there is a footer with links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Feedback'.

IBM Knowledge Center

Search

Search Filters: z/OS 2.1.0 x Auto-select Clear All Add Products...

Table of Contents

- z/OS Language Environment
- Library Server
- z/OS Metal C Runtime Library
- z/OS MVS
 - z/OS Batch Runtime Planning and User's C...
 - z/OS MVS Capacity Provisioning User's Gui
 - z/OS MVS Device Validation Support
 - z/OS MVS Diagnosis: Reference
 - Summary of changes for z/OS Version 2
 - Summary of changes for z/OS Version 2
 - System Reference
 - Identifying modules, components, a...
 - Specifying symptoms
 - SYSEVENTS
 - SVC summary
 - Program call services in the system
 - Serialization summary
 - Status indicators for system resourc
 - Storage summary

My Collections

Search Results

z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products

Identifying modules, components, and products

This topic contains information to help you identify module, component, and product information related to where an error is occurring. The three tables contain the same information, indexed three different ways. Use the tables as follows:

- [Relating a module prefix to component and product](#)
- [Relating component name to module, component, and product](#)
- [Relating component ID to component name, module prefix, and product](#)

Each table contains the following sections:

- Module prefix:** The module prefix is the first three or more characters in:
 - CSECT name
 - Entry point name
 - Macro name
 - Module name

The name of a module or macro owned by IBM® usually begins with the characters A through I. There are a few exceptions beginning with S or X.

- Component name:** The component name shows the component associated with the module prefix. In some cases, this section shows the name of a command or macro.
- Product ID:** The product ID is a number identifying the product that a component is associated with. Each separately orderable product has a unique product ID.
- Component ID:** The component ID is an alphanumeric identifier unique for each component. For component...

Contact Privacy Terms of use Accessibility Feedback

Using breadcrumbs to navigate z/OS documentation

IBM Knowledge Center provides breadcrumbs that reflect the path to a topic, starting with the z/OS release. To return to a parent topic, click the corresponding link in the breadcrumb trail.

The screenshot displays the IBM Knowledge Center web application. At the top, the header includes the IBM logo, the text "IBM Knowledge Center", the user name "Toshiba Johnson", and a language selector set to "English". Below the header is a search bar with the text "Search" and a "Save Search" button. Under the search bar, there are search filters: "z/OS 2.1.0", "Auto-select" (checked), "Clear All", and "Add Products...".

The main content area is divided into a left sidebar and a right main pane. The sidebar contains a "Table of Contents" section with a tree view. The tree view shows the following structure:

- z/OS Language Environment
- Library Server
- z/OS Metal C Runtime Library
- z/OS MVS
 - z/OS Batch Runtime Planning and User's Guide
 - z/OS MVS Capacity Provisioning User's Guide
 - z/OS MVS Device Validation Support
 - z/OS MVS Diagnosis: Reference
 - Summary of changes for z/OS Version 2
 - Summary of changes for z/OS Version 2
 - System Reference
 - Identifying modules, components, and products (highlighted)
 - Specifying symptoms
 - SYSEVENTs
 - SVC summary
 - Program call services in the system
 - Serialization summary
 - Status indicators for system resource
 - Storage summary

The right main pane shows the breadcrumb trail at the top: "z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products". Below the breadcrumb trail is the title "Identifying modules, components, and products". The main text of the page states: "This topic contains information to help you identify module, component, and product information related to where an error is occurring. The three tables contain the same information, indexed three different ways. Use the tables as follows:" followed by three bullet points:

- [Relating a module prefix to component and product](#)
- [Relating component name to module, component, and product](#)
- [Relating component ID to component name, module prefix, and product.](#)

Below the bullet points, the text says: "Each table contains the following sections:" followed by a bullet point:

- Module prefix:** The module prefix is the first three or more characters in:
 - o CSECT name
 - o Entry point name
 - o Macro name
 - o Module name

The text continues: "The name of a module or macro owned by IBM® usually begins with the characters A through I. There are a few exceptions beginning with S or X."

Below this, there are two more bullet points:

- Component name:** The component name shows the component associated with the module prefix. In some cases, this section shows the name of a command or macro.
- Product ID:** The product ID is a number identifying the product that a component is associated with. Each separately orderable product has a unique product ID.

At the bottom of the page, there is a footer with links: "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

Using the URL to navigate between topic versions

The z/OS version and release are included in a topic's URL. To quickly navigate between different versions/releases of the same topic, manually modify the version and release.

The image displays two screenshots of the IBM Knowledge Center web interface, illustrating how to navigate between different versions of a topic by modifying the URL.

Top Screenshot: The browser address bar shows the URL `www-01.ibm.com/support/knowledgecenter/SSLTBW_2.1.0/com.ibm.zos.v2r1.eav200/i`. The version `2.1.0` and release `v2r1` are highlighted with yellow boxes.

Bottom Screenshot: The browser address bar shows the URL `www-01.ibm.com/support/knowledgecenter/SSLTBW_1.13.0/com.ibm.zos.v1r13.eav200/i`. The version `1.13.0` and release `v1r13` are highlighted with yellow boxes. The page content shows the "Table of Contents" on the left and the main topic "z/OS 1.13.0" on the right. The topic title is "z/OS MVS Diagnosis: Reference" with a sub-title "Identifying modules, components, and products". The page also includes a search bar, filters, and a "Share" button.



Maximizing the viewable content

To display more of the content within a topic, collapse the navigation area or open the topic in a new window.

The screenshot shows the IBM Knowledge Center interface. The navigation area on the left is expanded, showing a 'Table of Contents' with various topics. A yellow callout box points to the hamburger menu icon in the top left corner, stating 'Click to hide the navigation area.' Another yellow callout box points to the vertical scrollbar on the navigation area, stating 'Drag left or double click to decrease the size of the navigation area.' A third yellow callout box points to the 'Open in new tab (content only)' option in the right-click context menu, stating 'Right-click a topic, and select this option to display the topic in a new browser tab without the IBM Knowledge Center framework.' A blue starburst callout box on the right side of the page states 'Tip: Always open linked topics in new browser tabs so that each original page stays scrolled to the correct spot.' The main content area displays the topic 'Identifying modules, components, and products' under the path 'z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products'. The page includes a search bar at the top, a 'Share' button, and a 'Save Search' button. The footer contains links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Feedback'.

IBM Knowledge Center

Search

Search Filters: z/OS 2.1.0 x Auto-select Clear All Add Products...

Click to hide the navigation area.

Table of Contents

- z/OS JES3
- z/OS Language Environment
- Library Server
- z/OS Metal C Runtime Library
 - z/OS Metal C Programming Guide and Reference
- z/OS MVS
 - z/OS Batch Runtime Planning and User's Guide
 - z/OS MVS Capacity Provisioning User's Guide
 - z/OS MVS Device Validation Support
 - z/OS MVS Diagnosis: Reference
 - Summary of changes for z/OS Version 2.1.0
 - Summary of changes for z/OS Version 2.1.0
 - System Reference
 - Identifying modules, components, and products
 - Specifying symbols
 - SYSEVENTS
 - SVC summary
 - Program call sequence

Identifying modules, components, and products

This topic contains information to help you identify module, component, and product related to where an error is occurring. The three tables contain the same information in different ways. Use the tables as follows:

- Relating a module prefix to component and product
- Relating component name to module, component, and product
- Relating component ID to component name, module prefix, and product.

Drag left or double click to decrease the size of the navigation area.

Right-click a topic, and select this option to display the topic in a new browser tab without the IBM Knowledge Center framework.

Tip: Always open linked topics in new browser tabs so that each original page stays scrolled to the correct spot.

z/OS 2.1.0 > z/OS MVS > z/OS MVS Diagnosis: Reference > System Reference > Identifying modules, components, and products

Identifying modules, components, and products

This topic contains information to help you identify module, component, and product related to where an error is occurring. The three tables contain the same information in different ways. Use the tables as follows:

- Relating a module prefix to component and product
- Relating component name to module, component, and product
- Relating component ID to component name, module prefix, and product.

Open in new tab

Open in new tab (content only)

Add this topic to an existing collection

Add this topic to a new collection

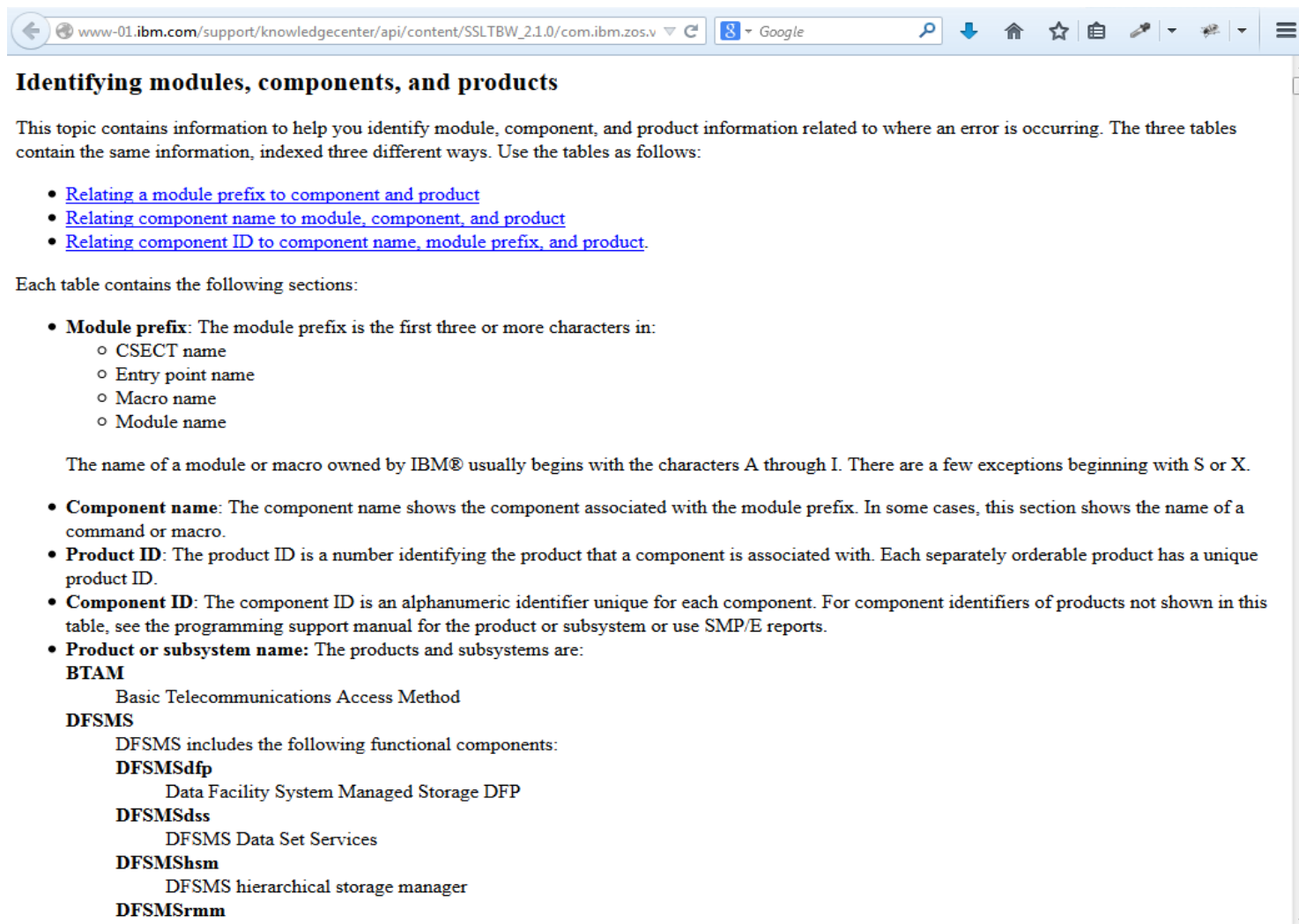
My Collections

Search Results

Contact Privacy Terms of use Accessibility Feedback

Maximizing the viewable content: Example of a content-only topic

This is a topic after you right-click it and select the **Open in new tab (content only)** option.



The screenshot shows a web browser window with the address bar displaying www-01.ibm.com/support/knowledgecenter/api/content/SSLTBW_2.1.0/com.ibm.zos.v. The page title is "Identifying modules, components, and products". The main content area contains a paragraph explaining that the topic provides information to help identify module, component, and product information related to an error. It then lists three tables: "Relating a module prefix to component and product", "Relating component name to module, component, and product", and "Relating component ID to component name, module prefix, and product". Below this, it states that each table contains the following sections:

- Module prefix:** The module prefix is the first three or more characters in:
 - CSECT name
 - Entry point name
 - Macro name
 - Module name

The name of a module or macro owned by IBM® usually begins with the characters A through I. There are a few exceptions beginning with S or X.

- Component name:** The component name shows the component associated with the module prefix. In some cases, this section shows the name of a command or macro.
- Product ID:** The product ID is a number identifying the product that a component is associated with. Each separately orderable product has a unique product ID.
- Component ID:** The component ID is an alphanumeric identifier unique for each component. For component identifiers of products not shown in this table, see the programming support manual for the product or subsystem or use SMP/E reports.
- Product or subsystem name:** The products and subsystems are:
 - BTAM**
Basic Telecommunications Access Method
 - DFSMS**
DFSMS includes the following functional components:
 - DFSMSdfp**
Data Facility System Managed Storage DFP
 - DFSMSdss**
DFSMS Data Set Services
 - DFSMSHsm**
DFSMS hierarchical storage manager
 - DFSMSrmm**

Creating Customized Views and Documents with the My Collections View

Using My Collections to create customized views

Select topics or sections from anywhere in IBM Knowledge Center and add them to new or existing collections. From the My Collections view, you can then navigate inside your collections or edit them to reorganize topics and sections to your liking.

The screenshot displays the IBM Knowledge Center interface. At the top, the header includes the IBM logo, 'IBM Knowledge Center', the user name 'Susan Shumway', and a language dropdown set to 'English'. Below the header is a search bar with a magnifying glass icon and a 'Save Search' button. Under the search bar, search filters are shown: 'z/OS 2.1.0' (with a close icon), 'Auto-select' (checked), 'Clear All', and 'Add Products...'. The main content area is divided into two panels. The left panel, titled 'My Collections', shows a 'Table of Contents' and a 'My Collections' section. Under 'My Collections', there is a collection named 'GRS' which is expanded to show a list of topics: 'z/OS MVS Planning: Global Resource Serialization', 'GRSCNFxx (global resource serialization configuration)', 'GRSRNLxx (global resource serialization resource name lists)', 'GRS QScan statistics data section', 'GRS enqueue data', and 'GRS latch type data'. The right panel, titled 'Edit Collection', shows the collection name 'GRS' and a description 'Selected topics and sections that relate to GRS'. Below this, there is a 'Topics' section with a list of topics, each with a delete icon (X), up/down arrows, and a link to the topic. The topics listed are: 'z/OS MVS Planning: Global Resource Serialization [more subtopics]', 'GRSCNFxx (global resource serialization configuration) [more subtopics]', 'GRSRNLxx (global resource serialization resource name lists) [more subtopics]', 'GRS QScan statistics data section', 'GRS enqueue data', and 'GRS latch type data'.

IBM Knowledge Center

Susan Shumway English

Search

Save Search

Search Filters: z/OS 2.1.0 ☒ Auto-select | Clear All | Add Products...

Table of Contents

My Collections

GRS

- z/OS MVS Planning: Global Resource Serialization
- GRSCNFxx (global resource serialization configuration)
- GRSRNLxx (global resource serialization resource name lists)
- GRS QScan statistics data section
- GRS enqueue data
- GRS latch type data

MVS Init & Tuning

z/OS Migration

Save | Delete | Discard Changes

Edit Collection

GRS

Selected topics and sections that relate to GRS

Topics

- ☐ z/OS MVS Planning: Global Resource Serialization [more subtopics]
- ☐ GRSCNFxx (global resource serialization configuration) [more subtopics]
- ☐ GRSRNLxx (global resource serialization resource name lists) [more subtopics]
- ☐ GRS QScan statistics data section
- ☐ GRS enqueue data
- ☐ GRS latch type data



Using My Collections to produce PDFs of your customized views

Create stripped-down PDFs of your customized content for printing or sharing.

The screenshot displays the IBM Knowledge Center interface. At the top, the header shows 'IBM Knowledge Center', the user 'Susan Shumway', and the language 'English'. Below the header is a search bar with a 'Search' button and a 'Save Search' dropdown. Search filters for 'z/OS 2.1.0' are visible, along with 'Auto-select', 'Clear All', and 'Add Products...' options. On the left, a 'Table of Contents' and 'My Collections' section are present. The 'My Collections' section shows a tree view under 'GRS' with various topics. A yellow box highlights the 'Create PDF File' button, with an arrow pointing to the main content area. The main content area displays the 'Syntax rules for GRSCNFxx' page, which includes a list of rules for creating GRSCNFxx statements and a table showing the GRSCNFxx statement format.

GRS
Selected topics and sections that relate to GRS

Bookmarks

- Alternate link failure
- System failure
- Reactivating a quiesced system
- Trademarks
- GRSCNFxx (global resource serialization configuration)
 - Parameters in IEASYSxx
 - Syntax rules for GRSCNFxx**
 - IBM-supplied default for GRSCNFxx
 - Statements and parameters for GRSCNFxx
- GRSRNLxx (global resource serialization resource name lists)
- GRS QScan statistics data section
- GRS enqueue data

Syntax rules for GRSCNFxx

The following rules apply to the creation of GRSCNFxx:

- Use columns 1 through 71; columns 72 through 80 are ignored.
- Comments may appear in columns 1-71 and must begin with a comment character. A comment can span lines and can appear anywhere except in a specified value.
- Each GRSDDEF statement is defined as beginning with the character G and ending with the character immediately preceding the next statement.
- The GRSDDEF statement format is:

GRSDDEF	[MATCHSYS	{(na
[{(*)]1
[RESMIL	{(1-8 decimal digit)]1
[{(OFF)]1
[CTC (3-4 hexadecimal digit device number)...		
[RESTART	{(YES)]1

Social Features

Providing feedback and sharing content in IBM Knowledge Center

IBM Knowledge Center promotes continuous improvements and encourages collaboration by enabling you to rate topics, provide public and private feedback, and share content through email or social media.

The screenshot shows the IBM Knowledge Center interface. The top navigation bar includes the IBM logo, the site name, the user name 'Toshiba Johnson', and the language 'English'. A search bar is located below the navigation bar. The left sidebar contains a 'Table of Contents' with a tree view showing the hierarchy of topics, including 'z/OS MVS' and 'z/OS MVS Diagnosis: Reference'. The main content area displays a table of topics. A callout 'Rate topics' points to the rating icons (thumbs up and thumbs down) in the top right corner. Another callout 'Share topics on LinkedIn, Twitter, or by email.' points to the 'Share' dropdown menu, which lists 'Email', 'LinkedIn', and 'Twitter'. A third callout 'Write comments or ask questions (public)' points to the 'Comments (0) Add Comment' section. A fourth callout 'Send feedback (private)' points to the 'Feedback' link in the footer.

IBM Knowledge Center

Toshiba Johnson English

Search

Search Filters: z/OS 2.1.0 x Auto-select Clear All Add Products...

Table of Contents

- z/OS JES2
- z/OS JES3
- z/OS Language Environment
- z/OS MVS
 - z/OS Batch Runtime Planning and User's C
 - z/OS MVS Diagnosis: Reference
 - System Reference
 - Identifying modules, components, a
 - Specifying symptoms
 - SYSEVENTS
 - SVC summary
 - Program call services in the system

My Collections

Search Results

5752SC1BN	S	R	ZOS	RACF
5752SCRTD	Runtime Diagnostics	HZR	ZOS	MVS
97801	Graphics Access Method (GAM)	GAB, IFF, IGC, IGG	5741, 5650-ZOS, 5665	
99201	Device Support Facilities	ICK	5655	ICKDSF

Other Languages Other Versions

By adding a comment, you accept our IBM Knowledge Center Terms of Use. Comments on this IBM Knowledge Center site do not represent the views or opinions of IBM. IBM is not responsible for, and does not validate, any comments you post. IBM does not endorse any of your comments. All IBM comments are provided "AS IS" and are not warranted by IBM in any way.

Comments (0) Add Comment

No Comments

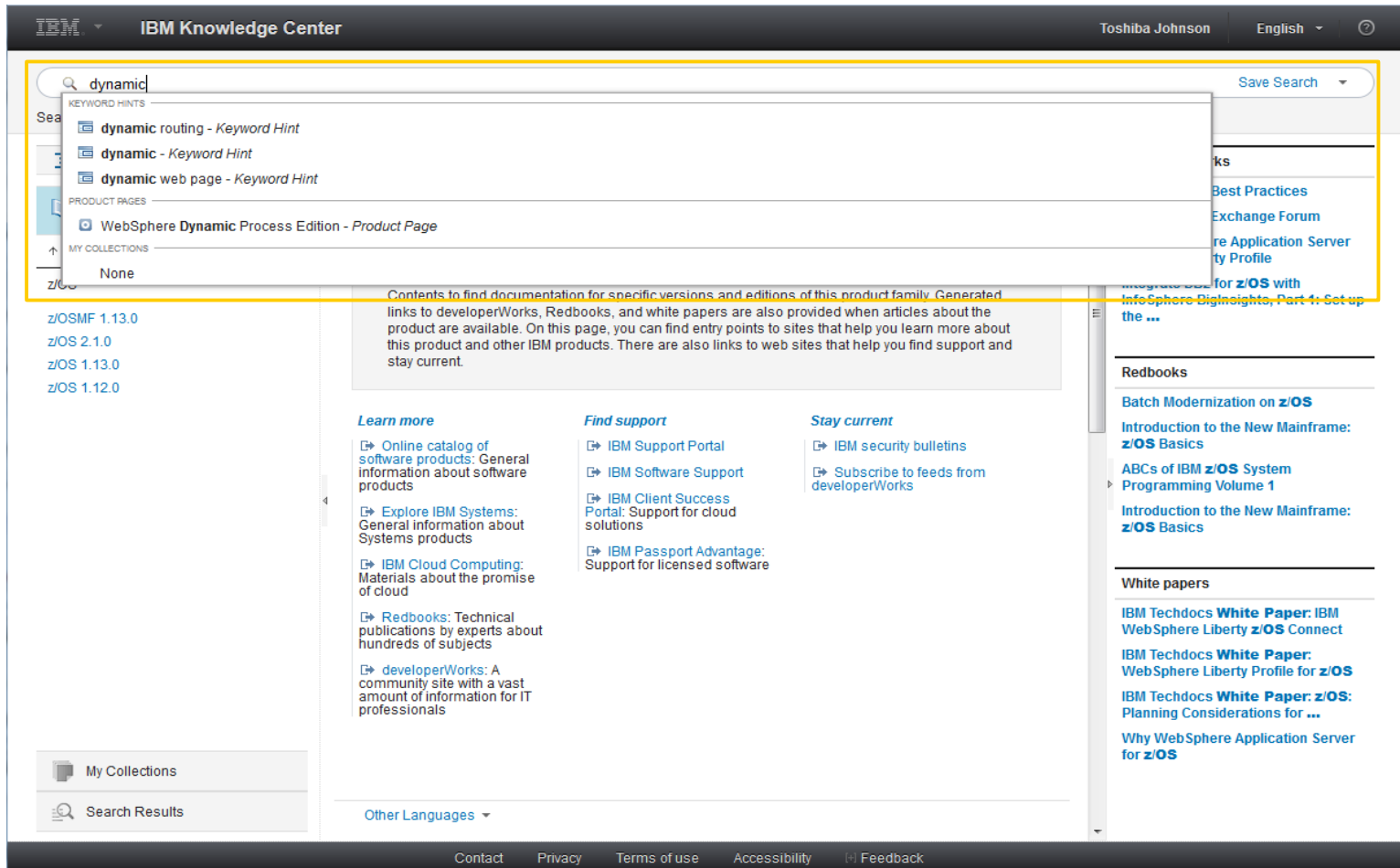
Contact Privacy Terms of use Accessibility Feedback

Send feedback (private)

Searching Content and the Search Results View

Finding content using a simple search: Entering search terms

To perform a simple search, enter your keywords into the search field and press Enter. As you type, IBM Knowledge Center suggests possible keywords, product pages, and collections related to your search.



Finding content using a simple search: Results

The search results display a title, summary, and containing product-release for each topic.

The screenshot shows the IBM Knowledge Center search results page for the query "dynamic vipa". The page is in English and shows results for z/OS. The search filters are set to "z/OS" and "Auto-select". The results are displayed in a list format, showing the title, summary, and product-release for each topic. The results are sorted by date, with the most recent results at the top. The results are displayed in a list format, showing the title, summary, and product-release for each topic. The results are sorted by date, with the most recent results at the top.

IBM Knowledge Center

Toshiba Johnson English

dynamic vipa Save Search

Search Filters: z/OS 3 x Auto-select Clear All Add Products...

1 - 80 items 20 40 60 80 Next 20 results

Date: February 11, 2015 | Found in: z/OS 2.1.0

Choosing which form of dynamic VIPA support to use - IBM

When to use VIPADEFINE and VIPABACKUP to define a dynamic VIPA: One or more applications bind to the IPv4 INADDR_ANY address or to the IPv6 ...

Date: February 11, 2015 | Found in: z/OS 2.1.0

Same dynamic VIPA for VIPADEFINE and BIND(). SIOCSVIP or ...

Regardless of careful implementation, it is possible that the same IP address is inadvertently selected for VIPADEFINE and for use with BIND(), SIOCSVIP or ...

Date: February 11, 2015 | Found in: z/OS 2.1.0

Same dynamic VIPA for VIPADEFINE and BIND(), SIOCSVIP or ...

Regardless of careful implementation, it is possible that the same IP address is inadvertently selected for VIPADEFINE and for use with BIND(), SIOCSVIP or ...

Date: August 8, 2014 | Found in: z/OS 2.1.0

Configure a CPCSCOPE dynamic VIPA for each CPC for use by a ...

Configure a CPCSCOPE dynamic VIPA for each CPC for use by a group of DataPower target applications. A CPCSCOPE DVIPA is specific to the CPC on which ...

Date: February 11, 2015 | Found in: z/OS 2.1.0

Choosing which form of dynamic VIPA support to use

When should VIPARANGE and the MODDVIPA utility (or ioctl command SIOCSVIP or SIOCSVIP6) be used to define a dynamic VIPA? The application cannot ...

Date: September 10, 2013 | Found in: z/OS 1.12.0

Dynamic VIPA creation results

Table 20 summarizes the results of attempting to create a dynamic VIPA when it (or the same IP address for HOME statement) already exists in the sysplex.

Date: September 10, 2013 | Found in: z/OS 1.12.0

Contact Privacy Terms of use Accessibility Feedback

Narrowing search results to a specific release

By default, the search filter is initially set to search all products and releases. To select a specific release, click **Add Products**, select one or more product releases to search, then click **Apply**.

The screenshot shows the IBM Knowledge Center search interface. The search bar contains 'dynamic vipa'. Below the search bar, the 'Search Filters' section shows 'z/OS' selected. The 'Add Products' button is highlighted with a yellow box. The 'Add Products' dialog box is open, showing a list of products. The 'z/OS 2.1.0' product is selected and highlighted with a yellow box. The dialog box has 'Apply', 'Clear All', and 'Cancel' buttons at the bottom.

Add Products

Select or search for products to add as search filters.

Enter product name

- System z Operating Systems
 - ☒ z/OS
 - ☐ z/OS 1.13.0
 - ☐ z/OS 1.12.0
 - ☐ z/OS Basic Skills
 - ☐ z/VM
 - ☐ Transaction Processing Facility Database Facility
 - ☐ z/Transaction Processing Facility Enterprise Edition
 - ☐ Information Management
 - ☐ OpenPages
 - ☐ Other Software

Apply Clear All Cancel

Tip: To locate a product in the Add Products window, scroll through the list or type the name of the product. Previous selections are preserved if you type a new product name.

Narrowing search results to a specific release

The search results are filtered, and they contain only the selected releases.

The screenshot shows the IBM Knowledge Center interface. At the top, the search bar contains 'dynamic vipa'. Below the search bar, the 'Search Filters' section is highlighted with a yellow box, showing 'z/OS 2.1.0' selected. To the right of the filters are buttons for 'Auto-select', 'Clear All', and 'Add Products...'. The left sidebar contains navigation links: 'Table of Contents', 'My Collections', and 'Search Results'. Under 'Search Results', there are filters for 'Date Range' (Past Week, Past Month, Past Year, Custom Range, Any Time), 'Tasks' (Any Task), and 'Operating Systems' (Any Operating System). The main content area displays a list of search results, with the first item 'Resolution of dynamic VIPA conflicts - IBM' highlighted. The 'Found in:' field for this result is also highlighted with a yellow box, showing 'z/OS 2.1.0'. A blue starburst callout on the right side of the page contains the text: 'Note: The search filter stays set until you reset it or click within another product's tree in the navigation area.'

IBM Knowledge Center

Toshiba Johnson English

dynamic vipa Save Search

Search Filters: z/OS 2.1.0 Auto-select Clear All Add Products...

1 - 20 items 20 Next 20 results

Resolution of dynamic VIPA conflicts - IBM
The same **dynamic VIPA** can exist on more than one stack in the sysplex, playing different roles on the different stacks. The TCP/IP stacks collaborate to prevent ...
Date: February 11, 2015 Found in: z/OS 2.1.0

Dynamic VIPA creation results
Table 1 summarizes the results of attempting to create a **dynamic VIPA** when it (or the same IP address) already exists in the sysplex.
Date: February 11, 2015 Found in: z/OS 2.1.0

Dynamic VIPA and sysplex distributor management data
The TCP/IP subagent supports **dynamic VIPA** (DVIPA) and sysplex distributor management data for specific MIB.
Date: February 12, 2015 Found in: z/OS 2.1.0

TCP/IP profile record distributed dynamic VIPA (DVIPA) section
This section provides information about distributed TCP connection processing for **dynamic VIPA** configured on the ...
Date: October 31, 2014 Found in: z/OS 2.1.0

Planning for dynamic VIPA takeover
The **dynamic VIPA** takeover function addresses this problem. It is important to understand that **dynamic VIPA** takeover does not introduce functions that could not ...
Date: February 11, 2015 Found in: z/OS 2.1.0

Note: The search filter stays set until you reset it or click within another product's tree in the navigation area.

Contact Privacy Terms of use Accessibility Feedback

Using Boolean operators to narrow search results

IBM Knowledge Center allows you to use Boolean operators (**AND/+**, **OR/|**, **NOT/-**, and so on) to create complex queries.

The screenshot displays the IBM Knowledge Center search interface. At the top, the search bar contains the query `"dynamic vipa" | dvipa|`, which is highlighted by a yellow box. A yellow callout bubble points to this box with the text: "Find topics that contain the phrase *dynamic VIPA* or the word *DVIPA* anywhere in the text." Below the search bar, the search filters show "z/OS 2.1.0" and "Auto-select". The left sidebar contains navigation links for "Table of Contents", "My Collections", and "Search Results". Under "Search Results", there are filters for "Date Range" (Past Week, Past Month, Past Year, Custom Range, Any Time), "Tasks" (Any Task), and "Operating Systems" (Any Operating System). The main content area displays a list of search results, with the first result titled "Manually initiating takeover for an individual dynamic VIPA". Other results include "DVIPA takeover", "Choosing which form of dynamic VIPA support to use", "Configure a CPCSCOPE dynamic VIPA for each CPC for use by a group ...", "Resolution of dynamic VIPA conflicts", and "Configuring DVIPA support". The bottom of the page features a footer with links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

Using search operators to narrow search results

IBM Knowledge Center allows you to use search operators (**intext**, **inurl**, **intitle**, and so on) to create complex queries that further refine your search results.

IBM Knowledge Center

Search Filters: z/OS 2.1.0 x ☒ Auto-select | Clear All | Add tag

Search Results

Date Range: Past Week | Past Month | Past Year | Custom Range | Any Time

Tasks: Any Task

Operating Systems: Any Operating System

1 - 5 items

Introduction to VIPA
VIPA takeover improved with the introduction of dynamic virtual IP address (DVIPA) and distributed dynamic virtual IP address (distributed DVIPA). The DVIPA ...
Date: February 11, 2015 | Found in: z/OS 2.1.0

Scenario 1 overview - sysplex distributor load balancing to DataPower
For each TCP connection request sent to the tier 1 DVIPA and port, the tier 1 sysplex distributor makes a load-balancing decision and routes the request to one ...
Date: February 11, 2015 | Found in: z/OS 2.1.0

Overview of DEVICE and LINK statements
There is no maximum for static VIPA interfaces, but the maximum number of dynamic VIPA interfaces is 1024. Figure 1 summarizes information about the various ...
Date: February 12, 2015 | Found in: z/OS 2.1.0

Overview of diagnosing sysplex distributor problems - IBM
Diagnosing sysplex distributor problems presents some unique challenges. Because a DVIPA can be associated with multiple stacks in a sysplex, determining ...
Date: August 8, 2014 | Found in: z/OS 2.1.0

Scenario 2 overview - sysplex distributor load balancing to ... - IBM
The CPC in site 1 (CPC1) uses a CPCSCOPE DVIPA that belongs to the site 1 datapower subnet, 201.81.10.7, and the CPC in site 2 (CPC2) uses another ...
Date: August 8, 2014 | Found in: z/OS 2.1.0

Contact | Privacy | Terms of use | Accessibility | Feedback

Narrowing search results to a specific book

Each book in the z/OS library is assigned a unique identifier, which is included in its URL. For example, book identifier *e0zm100* corresponds to *z/OS Migration*. You can use the **inurl** search operator and the book's identifier to narrow the search results to a specific book. The identifier for each book is provided in the Backup Resources slides.

The screenshot shows the IBM Knowledge Center search interface. The search bar contains the query: "dynamic vipa" | dvipa intitle:introduction | intitle:overview inurl:halz002. The search filters on the left include: z/OS 2.1.0, Auto-select, Clear All, and Add Products. The search results on the right show 1 - 3 items. The first result is titled "Introduction" and is dated February 11, 2015. The second result is titled "Scenario 1 overview - sysplex distributor load balancing to DataPower" and is dated February 11, 2015. The third result is titled "Scenario 2 overview - sysplex distributor load balancing to ... - IBM" and is dated August 8, 2014. The search results are found in z/OS 2.1.0.

Find topics in the “z/OS Communications Server: IP Configuration Guide” book that contain the phrase *dynamic VIPA* or the word *DVIPA* anywhere in the text and that contain the word *introduction* or the word *overview* in the title.

Tip: Book identifiers are also helpful during basic searching. If you hover over a topic title link in the search results, the displayed URL will contain the identifier of the containing book.

Searching for a specific z/OS message

For z/OS, the majority of the message IDs are included in the title of the topic created for that message. Therefore, you can use the *intitle* search operator to find a specific message in IBM Knowledge Center.

Example: To search for message ICH408I, enter *intitle:ICH408I* as the search criteria.

The screenshot shows the IBM Knowledge Center search interface. The search bar at the top contains the query `intitle:ICH408I`. Below the search bar, the search filters are set to `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`.

Search Results:

- ICH408I**
USER (userid) GROUP (group-name) NAME (user-name) --or-- JOB (jobname)
[SUBMITTER (userid)] [PRIMARY USER (userid)] ...
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
A user attempted to access the system specifying a password phrase that is not a valid password phrase for a protected user ID.
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
A user attempted to log on to the system,; submit a job,; perform a transaction, or, in general, cause some unit of work to be initiated from a RACF® defined port ...
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
LOGON/JOB INITIATION - REVOKED USER ACCESS ATTEMPT.
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)

Tip: Multiple topics provide additional information about ICH408I. Add the *inurl* operator to the search criteria to narrow your search to a specific book.

Saving your search criteria

To find relevant content even faster in the future, bookmark the search URL that IBM Knowledge Center provides, or click **Save Search** to save your criteria.

The screenshot shows the IBM Knowledge Center search results page. The browser's address bar is highlighted with a yellow box, showing the URL: `www-01.ibm.com/support/knowledgecenter/search/"dynamic vipa" | dvipa intitle%3Aintroduction | intitle%3Aoverview inurl%3Ahalz002?scope=SSLTBW_2.1.0`. A yellow callout bubble points to this URL with the text: "To share your search criteria, email this URL to others." In the top right corner of the page, a "Save Search" button is highlighted with a yellow box. A modal dialog titled "Name the Search" is open in the center, with a text input field containing the search criteria: `"dynamic vipa" | dvipa intitle:introduction | intitle:over`. A yellow callout bubble points to this input field with the text: "When saving your search criteria, enter a name that is meaningful to you. For example, you could call this one *Introduction to DVIPA*." The dialog also includes "Save" and "Cancel" buttons. The background shows search results for "Introduction to VIPA" with filters for Date Range and Tasks.

Using your saved search criteria

IBM Knowledge Center lists your saved searches in the Save Search menu. You can save up to ten searches.

The screenshot displays the IBM Knowledge Center web application. At the top, the header includes the IBM logo, the text "IBM Knowledge Center", the user name "Toshiba Johnson", and a language dropdown set to "English". Below the header is a search bar containing the query: "dynamic vipa" | dvipa intitle:introduction | intitle:overview inurl:halz002. To the right of the search bar, a "Save Search" dropdown menu is open, showing options: "Save this search query", "Manage saved search queries", and "Introduction to DVIPA" (which is checked). Below the search bar, the search filters are displayed: "Search Filters: z/OS 2.1.0 x Auto-select Clear All Add Products...". The left sidebar contains navigation links: "Table of Contents", "My Collections", and "Search Results" (highlighted). Below "Search Results", there are sections for "Date Range" (with links for "Past Week", "Past Month", "Past Year", "Custom Range", and "Any Time"), "Tasks" (with a link for "Any Task"), and "Operating Systems" (with a link for "Any Operating System"). The main content area shows "1 - 3 items" and a list of search results. The first result is "Introduction to VIPA" with a description: "VIPA takeover improved with the introduction of dynamic virtual IP address (DVIPA) and distributed dynamic virtual IP address (distributed DVIPA). The DVIPA ...". The second result is "Scenario 1 overview - sysplex distributor load balancing to DataPower" with a description: "For each TCP connection request sent to the tier 1 DVIPA and port, the tier 1 sysplex distributor makes a load-balancing decision and routes the request to one ...". The third result is "Scenario 2 overview - sysplex distributor load balancing to ... - IBM" with a description: "The CPC in site 1 (CPC1) uses a CPCSCOPE DVIPA that belongs to the site 1 datapower subnet, 201.81.10.7, and the CPC in site 2 (CPC2) uses another ...". At the bottom of the page, there is a footer with links: "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

Using Multiple Tools and Methods to Enhance Search Results

Use IBM Softcopy Reader to organize and search across multiple PDFs

1. Download and configure IBM Softcopy Reader for Windows V4.0:
<http://www.ibm.com/support/docview.wss?uid=swg24001220>.
2. Use one or more of the following methods to download the PDFs in which you are interested:
 - Use IBM Softcopy Librarian (www.ibm.com/support/docview.wss?uid=swg24000640) to download entire PDF collection kits or specific PDFs. You can create multiple repositories on your workstation, on a network drive, or natively on z/OS. Once established, Softcopy Librarian helps keep your repositories current by flagging new and updated documents.
 - Manually download PDFs from the z/OS V2R1 Elements and Features Documentation Download page: www.ibm.com/systems/z/os/zos/library/bkserv/v2r1pdf/.
 - Manually download PDFs from the IBM Publications Center: www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss. To do so, search for “z/OS V2R1 Collection” or publication number “SK4T-4949” (English).
3. In IBM Softcopy Reader, specify the location of the PDFs. Then, organize and search away!



Set up and use an offline, Windows-based IBM information center

1. On the IBM Publications Center (www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss), search for and download SK5T-7089-03, which is the ISO file for the z/OS V1R13 information center DVD.
2. Burn a DVD from the ISO file.
3. Use the DVD on your workstation to install the z/OS V1R13 information center. If you're happy with V1R13 content, stop here. If you instead need z/OS V2R1 content, though, continue to the next step.
4. Again on the IBM Publications Center, search for and download SC27-8400, which is a zip file of the z/OS V2R1 information center plug-ins.
 - **Note:** If you also want the V2R1 PDFs, download the collection as discussed previously.
5. Unzip the contents of the zip file to a temporary folder.
6. Open the V1R13 information center plugins directory, which is typically at C:\Program Files (x86)\IBM\zOS V1R13 Information Center\eclipse\plugins\.
7. Delete all plug-ins with “v1r13” in the directory title and replace them with the V2R1 plug-ins.
8. Rename icons to reflect the V2R1 content.
9. Using the Windows start menu, launch the V2R1 information center. In the command prompt window that opens, note the port number.
10. In a browser, go to `http://localhost:nnnn`, where *nnnn* is the noted port number.



Use IBM BookManager to search for content in V1R13, then note its location

IBM BookManager for V1R13: www.ibm.com/systems/z/os/zos/library/bkserv/v1r13books.html


After finding the content you want, click the picture frame icon to determine your location in the library. Using the table of contents for the current z/OS release in IBM Knowledge Center, navigate to the same book and section to see the current information.


Search Results for a Shelf



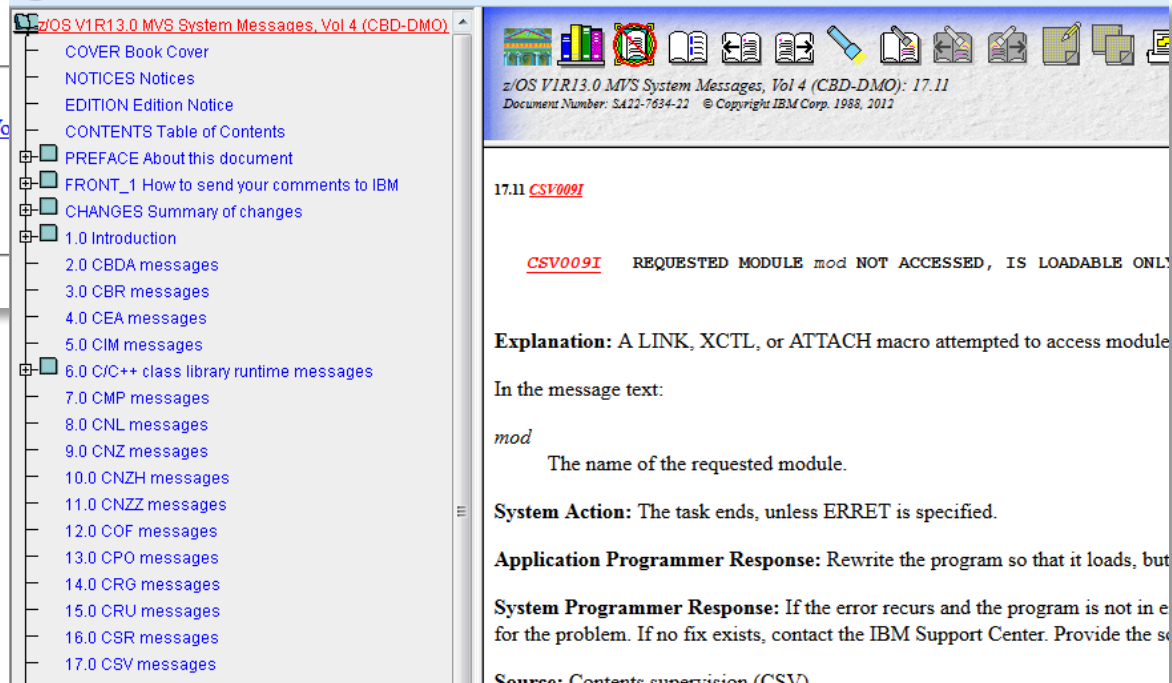
Search results for shelf: *all13be9 "z/OS V1R13 Base Elements Optional Features (September 2012)"*

2 documents have matches for: *CSV009I*

 *iea2m4c1* [z/OS V1R13.0 MVS System Messages, Vol 4 \(CBD-DMO\)](#)

 *iea2h7c2* [z/OS V1R13.0 MVS System Codes](#)

IBM Library Server Copyright 1989, 2005 IBM Corporation. All rights reserved.



The screenshot displays the IBM BookManager interface. On the left, a search results pane shows two documents matching the query 'CSV009I': 'z/OS V1R13.0 MVS System Messages, Vol 4 (CBD-DMO)' and 'z/OS V1R13.0 MVS System Codes'. The main pane shows the table of contents for the selected document, with sections like 'COVER Book Cover', 'NOTICES Notices', 'EDITION Edition Notice', 'CONTENTS Table of Contents', 'PREFACE About this document', 'FRONT_1 How to send your comments to IBM', 'CHANGES Summary of changes', '1.0 Introduction', '2.0 CBDA messages', '3.0 CBR messages', '4.0 CEA messages', '5.0 CIM messages', '6.0 C/C++ class library runtime messages', '7.0 CMP messages', '8.0 CNL messages', '9.0 CNZ messages', '10.0 CNZH messages', '11.0 CNZZ messages', '12.0 COF messages', '13.0 CPO messages', '14.0 CRG messages', '15.0 CRU messages', '16.0 CSR messages', and '17.0 CSV messages'. The right pane shows the content of the selected document, 'z/OS V1R13.0 MVS System Messages, Vol 4 (CBD-DMO): 17.11', with a document number of SA22-7634-22. The content includes a message text: '17.11 **CSV009I** REQUESTED MODULE mod NOT ACCESSED, IS LOADABLE ONLY'. Below this, an 'Explanation' section states: 'A LINK, XCTL, or ATTACH macro attempted to access module mod. The name of the requested module.' A 'System Action' section states: 'The task ends, unless ERRET is specified.' An 'Application Programmer Response' section states: 'Rewrite the program so that it loads, but'. A 'System Programmer Response' section states: 'If the error recurs and the program is not in e for the problem. If no fix exists, contact the IBM Support Center. Provide the s'. A 'Source' section states: 'Contents supervision (CSV)'.

New and Upcoming Documentation Solutions

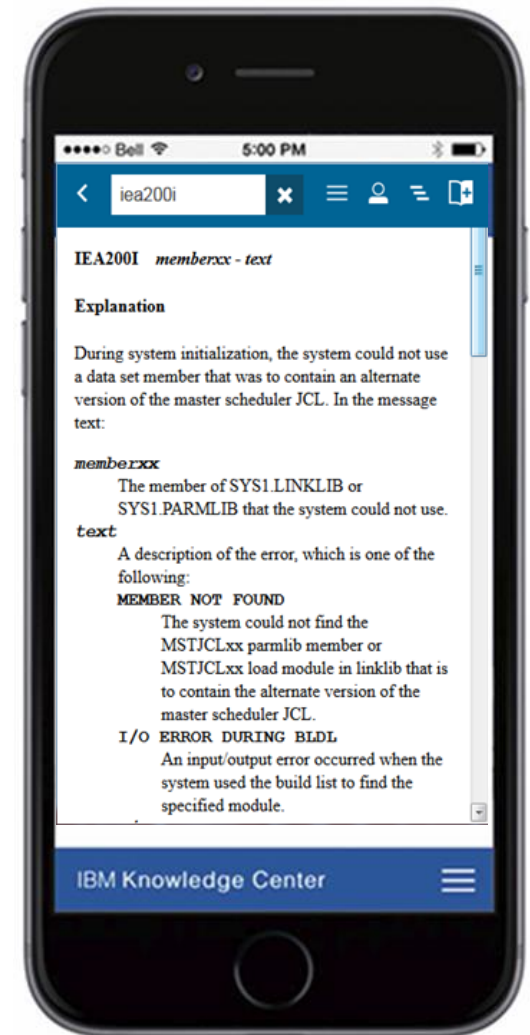
Using IBM Knowledge Center mobile beta to access documentation on your mobile device

The new IBM Knowledge Center mobile beta is available and supports iOS and Android. Access it at www.ibm.com/support/knowledgecenter/mobile/.

With the mobile version, you can:

- Search all of IBM Knowledge Center
- Filter your searches by product
- Preview search results
- Read topics and get context with mobile-friendly breadcrumbs
- Log in and add topics to "My Collections" so you can read them later on a desktop
 - When you sign in from a desktop, the topics you added are shown in a special entry called "Added from IBM Knowledge Center Mobile"

IBM Knowledge Center mobile beta also lets you switch back to the full desktop site from the options page.



Coming in V2R2: IBM Knowledge Center for z/OS (KC4z)

KC4z is a new base element of z/OS V2R2 that provides the ability to display, navigate, and search content in a local, optionally disconnected environment.

KC4z is an SMP/E packaging of the IBM Knowledge Center Customer Installed version 1.5.1. It is a Java web application that is deployed by the WebSphere Liberty Profile that is packaged with the z/OSMF base element, though it will create its own instance from those binaries.

The screenshot displays the IBM Knowledge Center for z/OS (KC4z) web application. The header includes the IBM logo, the title "IBM Knowledge Center", and a language selector set to "English". Below the header is a search bar with the placeholder text "Enter search terms". Under the search bar, there are search filters: "z/OS" (selected), "Auto-select" (checked), "Clear All", and "Add Products...". On the left side, there is a "Table of Contents" section with a list of links: "AHL100471", "AHL100481", "AHL200011", "AHL200021", "AHL200031", "AHL200041", and "AHL200051". The main content area displays a topic titled "The SPACE keyword of the COPYTRC subcommand is not specified output data set already exists. The SPACE keyword in conjunction with the OUTDSNAME keyword which specifies the data set to be newly allocated." Below this text, there are sections for "System action" and "Source". A blue callout box on the right side of the main content area contains the following text: "Note: Because KC4z is a local instance, there are no log-in profile-based functions such as commenting, creating collections, or sharing or saving of information." The footer of the application includes links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Feedback".

Coming in V2R2: Enhanced IBM Softcopy Librarian

In z/OS V2R2, IBM Softcopy Librarian will start supporting IBM Knowledge Center documentation plug-ins so that you can use it to download z/OS or other IBM product documentation plug-ins and organize them to your liking in one or more KC4z instances. You can also manually add content to KC4z by copying it to z/OS directories.

For more information, see the z/OS V2R2 preview announcement:

www.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/6/897/ENUS215-006/index.html.



Coming soon: z/OS documentation search tool for IBM Knowledge Center

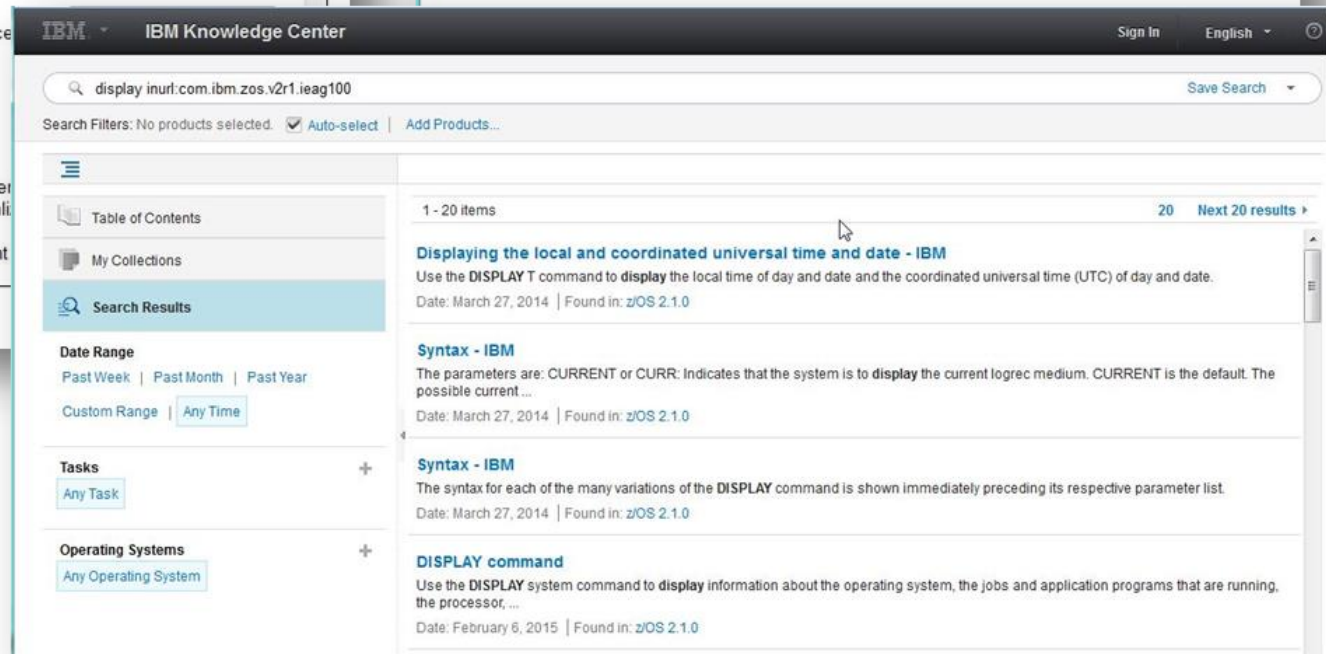
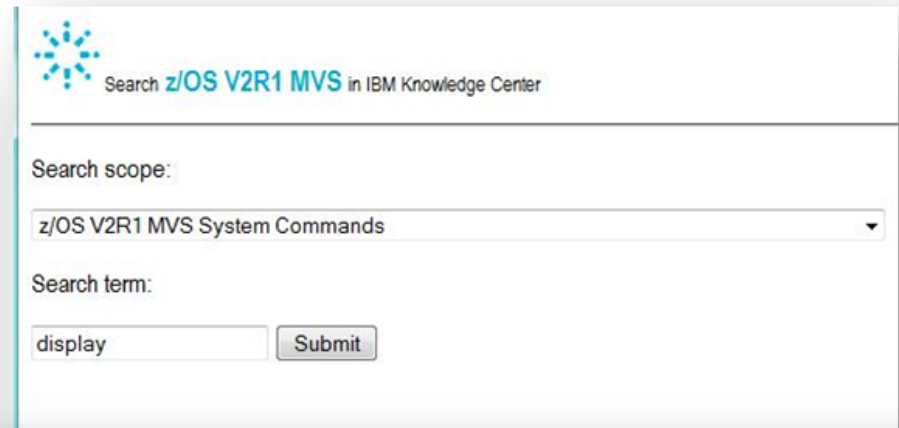
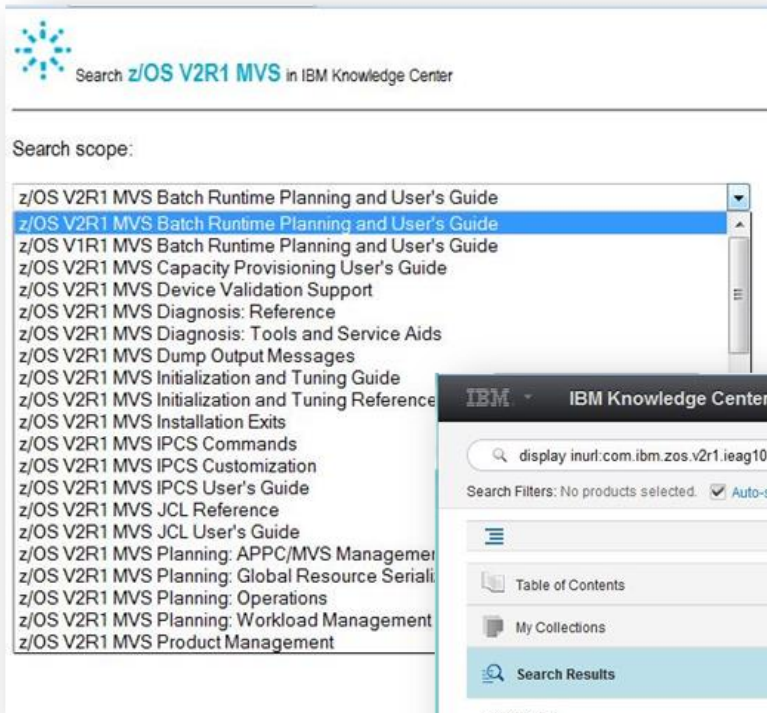
We're soon unveiling a tool on the z/OS Internet Library (www.ibm.com/systems/z/os/zos/library/bkserv/) that will let you search across individual z/OS element libraries. See Geoff Smith's SHARE presentation at share.confex.com/share/124/webprogram/Session16708.html for details.

Scope results to one element library:

The screenshot displays the IBM Knowledge Center search interface. At the top, the IBM logo and 'IBM Knowledge Center' are visible, along with 'Sign In' and 'English' options. A search bar contains the text 'Compiler for REXX on zSeries' and a 'Save Search' button. Below the search bar, a filter bar shows 'Products: REXX Alternative Library' with 'Clear' and 'Add Products...' options. The main content area is divided into a left sidebar and a right pane. The sidebar includes a 'Close' button, a 'Search Results' section with a magnifying glass icon, and three filter categories: 'Date Range' (with options: Past Week, Past Month, Past Year, Custom Range, Any Time), 'Tasks' (with option: Any Task), and 'Operating Systems' (with option: Any Operating System). The right pane shows a list of search results, starting with '1 - 20 items' and a 'Next 20 results' link. The results list includes: 'IBM Compiler for REXX on zSeries' (Date: December 5, 2014 | Found in: REXX Alternative Library), 'IBM Compiler and Library for REXX on zSeries Publications' (Date: December 5, 2014 | Found in: REXX Alternative Library), 'IBM Compiler and Library for REXX on zSeries Publications' (Date: December 5, 2014 | Found in: REXX Alternative Library), 'Abstract for IBM Compiler and Library for REXX on zSeries Diagnosis Guide' (Date: December 5, 2014 | Found in: REXX Alternative Library), and 'Abstract for IBM Compiler and Library for REXX on zSeries User's Guide and Reference' (Date: December 5, 2014 | Found in: REXX Alternative Library).

Coming soon: z/OS documentation search tool for IBM Knowledge Center

Scope results to a single book:



Questions?

Optional Survey: IBM Knowledge Center

Thank you!

Additional Details

Searching across multiple z/OS products

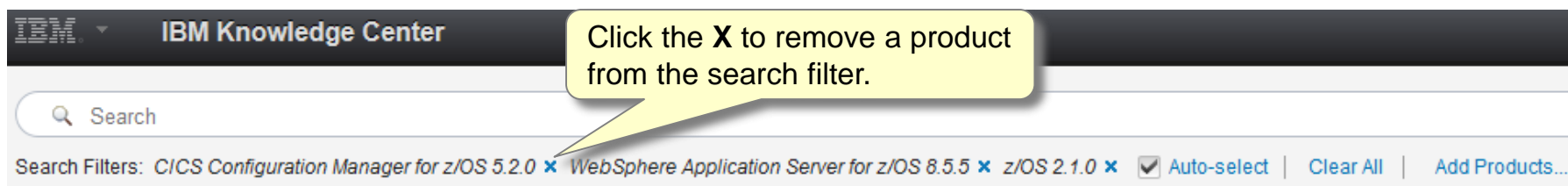
To search across multiple z/OS products, click **Add Products**. Then, select the products to include in the search.

The screenshot shows the IBM Knowledge Center search interface. At the top, there's a search bar and a 'Save Search' button. Below the search bar, there are search filters: 'z/OS 2.1.0' (selected), 'Auto-select' (checked), and 'Clear All'. A yellow box highlights the 'Add Products' button. A dialog box titled 'Add Products' is open, showing a list of products to select. The list includes 'CICS Configuration Manager for z/OS' (with sub-items for 5.2.0 and 5.1.0), 'CICS Deployment Assistant for z/OS', 'CICS Interdependency Analyzer for z/OS', 'CICS Online Transmission Time Optimizer for z/OS', 'CICS Operational Insights', 'CICS Performance Analyzer for z/OS', 'CICS VSAM Recovery for z/OS', 'CICS VSAM Transparency for z/OS', 'IBM Session Manager for z/OS', 'CICS Transaction Gateway', and 'CICS Transaction Server'. There are also two expanded sections: 'System z Operating Systems' (with sub-items for z/OS 2.1.0, 1.13.0, and 1.12.0) and 'WebSphere Application Server for z/OS' (with sub-items for 8.5.5, 8.0.0, 7.0.0, and 6.1.0). The 'Add Products' dialog box has an 'Apply' button at the bottom.

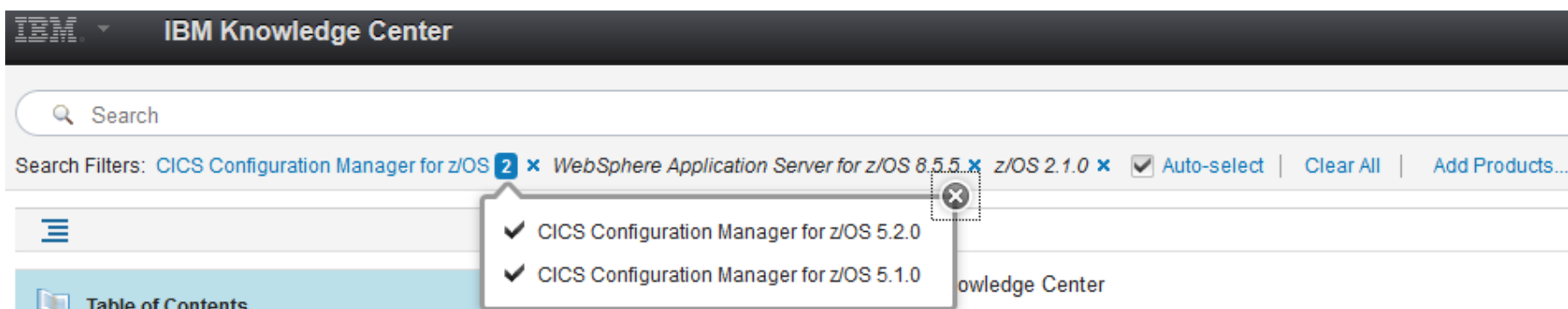
Tip: To locate a product in the Add Products window, scroll through the list or type the name of the product. Previous selections are preserved if you type a new product name.

Searching across multiple z/OS products continued

Each product you selected will be listed in the **Search Filters** field.



If you selected multiple versions of the same product, a number follows the product name indicating the number of versions selected. Place your cursor over the number to obtain a list of the product versions.



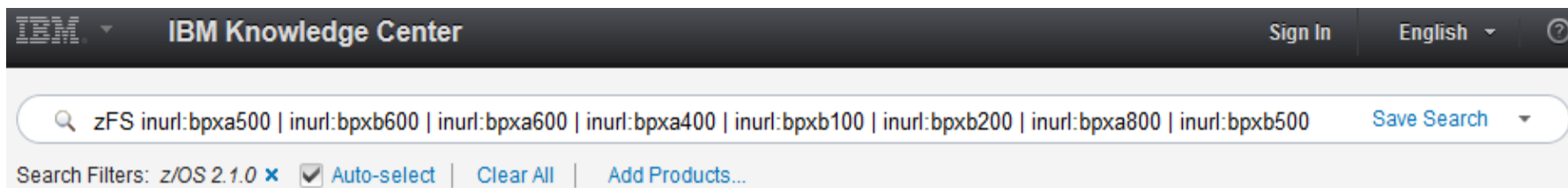
Searching an entire z/OS element

To search an entire z/OS element, in the search criteria, include an *inurl* search operator for each book in the element.

Example: The following books are included in the z/OS UNIX System Services element:

Book Title	Book Identifier
z/OS UNIX System Services Command Reference	bpxa500
z/OS Using REXX and z/OS UNIX System Services	bpxb600
z/OS UNIX System Services Programming Tools	bpxa600
z/OS UNIX System Services User's Guide	bpxa400
z/OS UNIX System Services Programming: Assembler Callable Services Reference	bpxb100
z/OS UNIX System Services Planning	bpxb200
z/OS UNIX System Services Messages and Codes	bpxa800
z/OS UNIX System Services File System Interface Reference	bpxb500

To search for the acronym *zFS* in the z/OS V2R1 version of this element, use the following search string in IBM Knowledge Center:



The screenshot shows the IBM Knowledge Center search bar with the following search string: `zFS inurl:bpxa500 | inurl:bpxb600 | inurl:bpxa600 | inurl:bpxa400 | inurl:bpxb100 | inurl:bpxb200 | inurl:bpxa800 | inurl:bpxb500`. The search filters are set to `z/OS 2.1.0` and `Auto-select` is checked. The `Save Search` button is visible.



Searching for a specific z/OS message

For z/OS, the majority of the message IDs are included in the title of the topic created for that message. Therefore, you can use the *intitle* search operator to find a specific message in IBM Knowledge Center.

Example: To search for message ICH408I, enter *intitle:ICH408I* as the search criteria.

The screenshot shows the IBM Knowledge Center search interface. The search bar at the top contains the query `intitle:ICH408I`. Below the search bar, the search filters are set to `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`. The search results are displayed in a list format, showing the first 20 items. The results are filtered by `z/OS 2.1.0`.

Search Results:

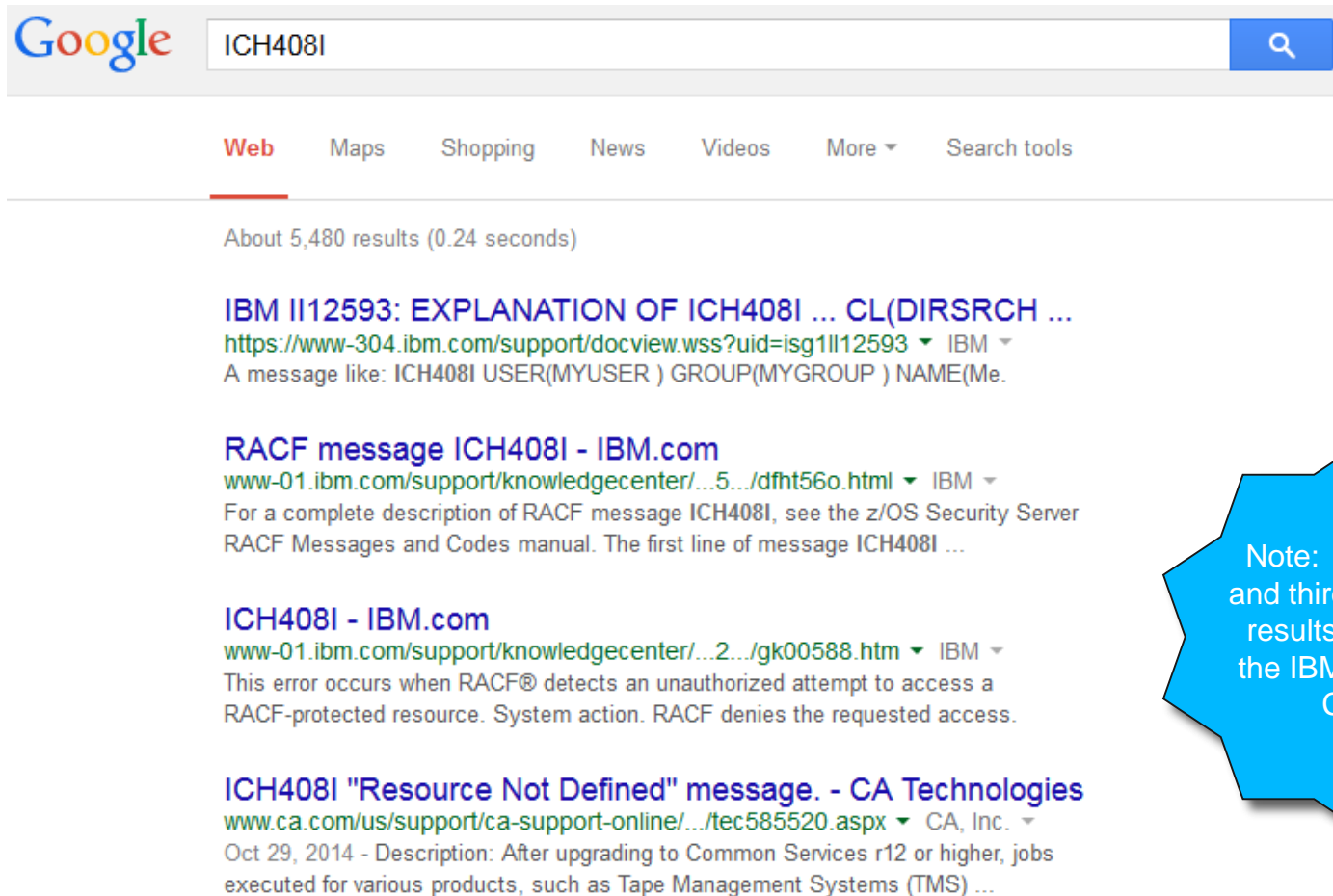
- ICH408I**
USER (userid) GROUP (group-name) NAME (user-name) --or-- JOB (jobname)
[SUBMITTER (userid)] [PRIMARY USER (userid)] ...
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
A user attempted to access the system specifying a password phrase that is not a valid password phrase for a protected user ID.
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
A user attempted to log on to the system,; submit a job,; perform a transaction, or, in general, cause some unit of work to be initiated from a RACF® defined port ...
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)
- ICH408I**
LOGON/JOB INITIATION - REVOKED USER ACCESS ATTEMPT.
Date: October 31, 2014 | Found in: [z/OS 2.1.0](#)

Tip: Multiple topics provide additional information about ICH408I. Add the *inurl* operator to the search criteria to narrow your search to a specific book.

Locating content in IBM Knowledge Center using a Google search

The content in IBM Knowledge Center is searchable through a Google search.

Example: If you search Google for ICH408I, the following results are displayed:



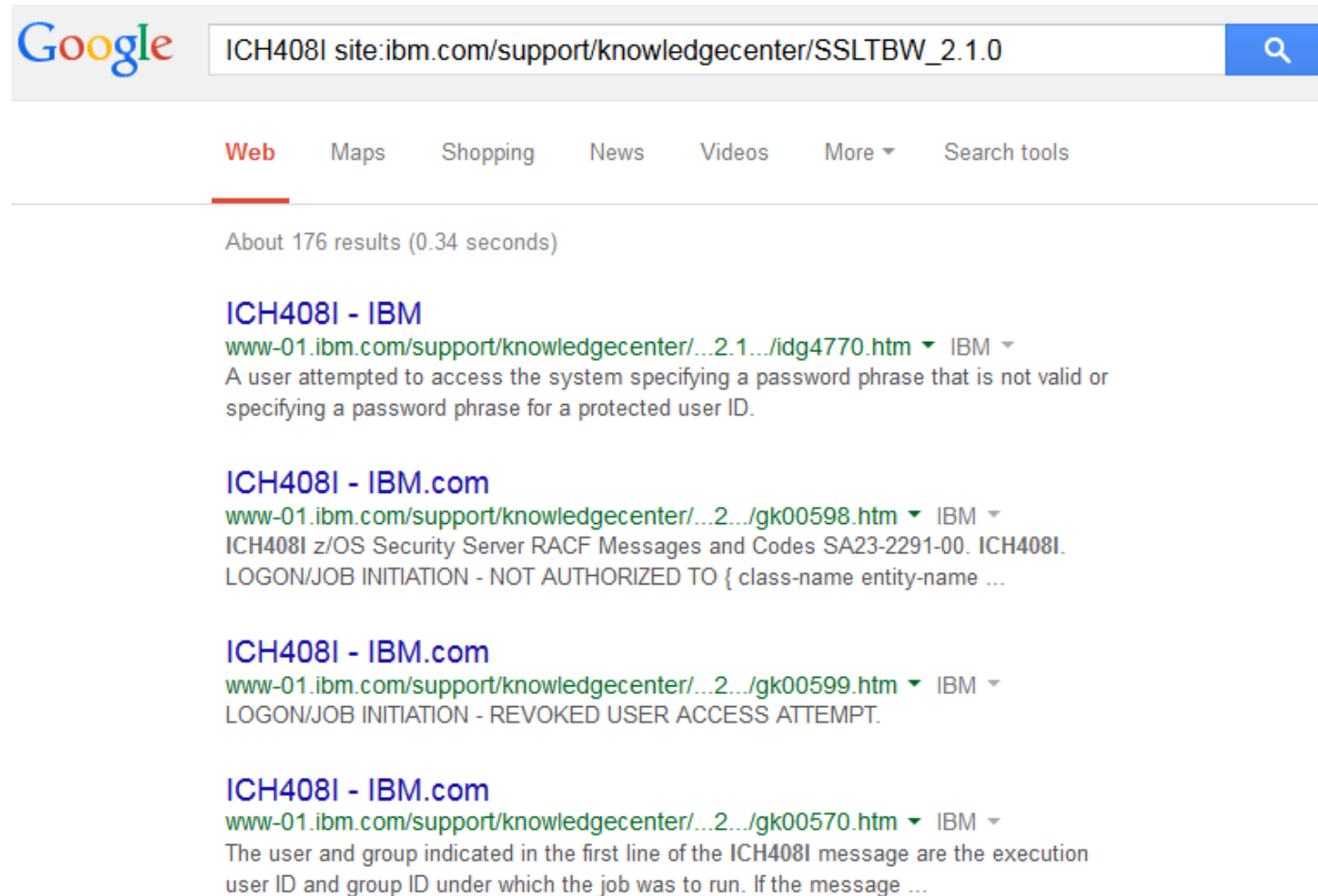
The screenshot shows a Google search interface with the query 'ICH408I' entered in the search bar. Below the search bar, there are tabs for 'Web', 'Maps', 'Shopping', 'News', 'Videos', 'More', and 'Search tools'. The 'Web' tab is selected. Below the tabs, it says 'About 5,480 results (0.24 seconds)'. The search results are listed below:

- IBM II12593: EXPLANATION OF ICH408I ... CL(DIRSRCH ...**
<https://www-304.ibm.com/support/docview.wss?uid=isg1II12593> ▾ IBM ▾
A message like: ICH408I USER(MYUSER) GROUP(MYGROUP) NAME(Me.
- RACF message ICH408I - IBM.com**
www-01.ibm.com/support/knowledgecenter/...5.../dfht56o.html ▾ IBM ▾
For a complete description of RACF message ICH408I, see the z/OS Security Server RACF Messages and Codes manual. The first line of message ICH408I ...
- ICH408I - IBM.com**
www-01.ibm.com/support/knowledgecenter/...2.../gk00588.htm ▾ IBM ▾
This error occurs when RACF® detects an unauthorized attempt to access a RACF-protected resource. System action. RACF denies the requested access.
- ICH408I "Resource Not Defined" message. - CA Technologies**
www.ca.com/us/support/ca-support-online/.../tec585520.aspx ▾ CA, Inc. ▾
Oct 29, 2014 - Description: After upgrading to Common Services r12 or higher, jobs executed for various products, such as Tape Management Systems (TMS) ...

Note: The second and third items in the results take you to the IBM Knowledge Center.

Locating content in IBM Knowledge Center using a Google search continued

To narrow the Google search results to z/OS V2R1 content in IBM Knowledge Center, add the *site* operator to your search criteria.



The screenshot shows a Google search interface. The search bar contains the text "ICH408I site:ibm.com/support/knowledgecenter/SSLTBW_2.1.0". Below the search bar, the "Web" tab is selected. The results show "About 176 results (0.34 seconds)". Three results are visible, each starting with "ICH408I - IBM.com" followed by a URL and a description of the error message.

Google

ICH408I site:ibm.com/support/knowledgecenter/SSLTBW_2.1.0

Web Maps Shopping News Videos More Search tools

About 176 results (0.34 seconds)

ICH408I - IBM
www-01.ibm.com/support/knowledgecenter/...2.1.../idg4770.htm IBM
A user attempted to access the system specifying a password phrase that is not valid or specifying a password phrase for a protected user ID.

ICH408I - IBM.com
www-01.ibm.com/support/knowledgecenter/...2.../gk00598.htm IBM
ICH408I z/OS Security Server RACF Messages and Codes SA23-2291-00. ICH408I.
LOGON/JOB INITIATION - NOT AUTHORIZED TO { class-name entity-name ...

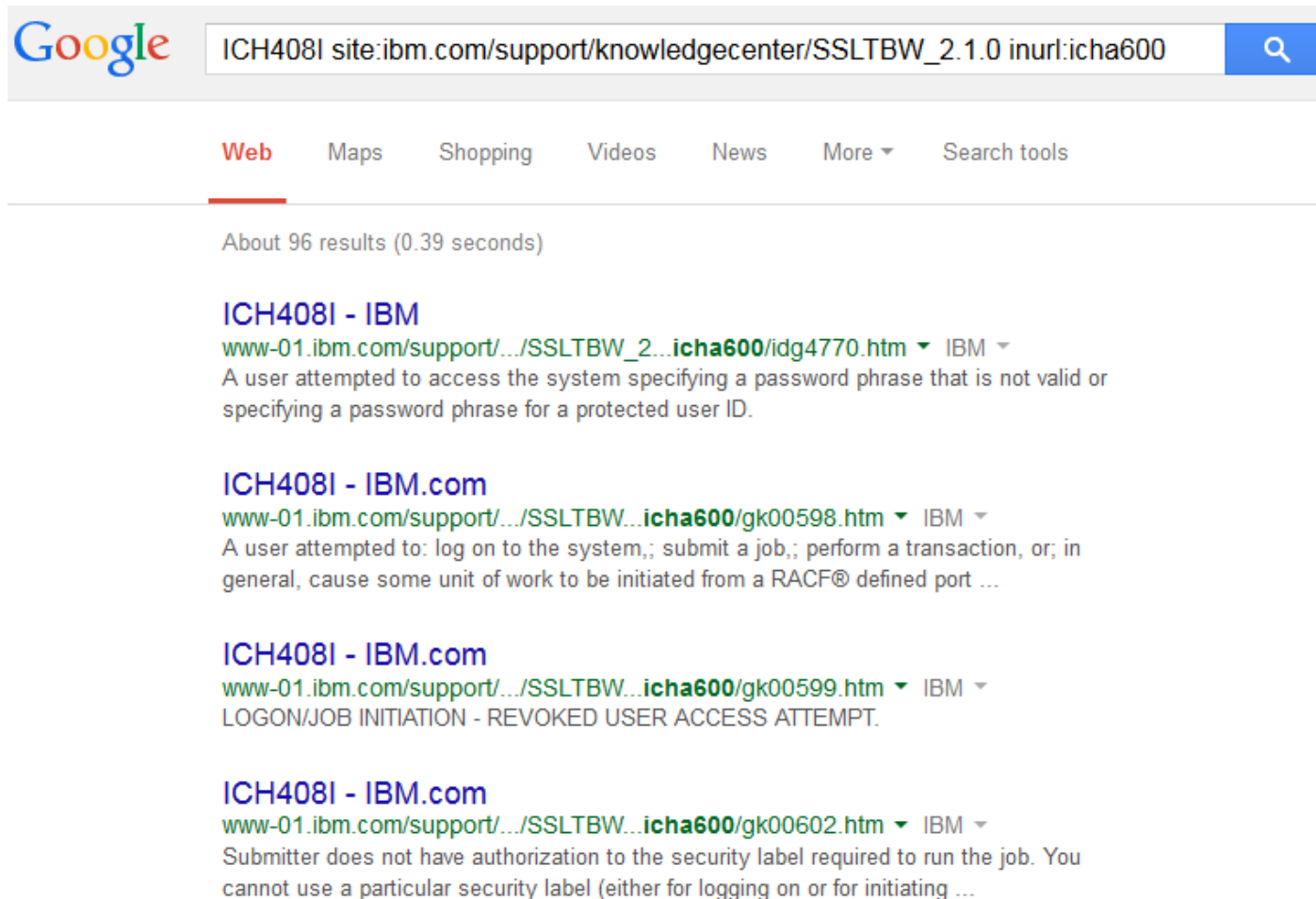
ICH408I - IBM.com
www-01.ibm.com/support/knowledgecenter/...2.../gk00599.htm IBM
LOGON/JOB INITIATION - REVOKED USER ACCESS ATTEMPT.

ICH408I - IBM.com
www-01.ibm.com/support/knowledgecenter/...2.../gk00570.htm IBM
The user and group indicated in the first line of the ICH408I message are the execution user ID and group ID under which the job was to run. If the message ...



Locating content in IBM Knowledge Center using a Google search continued

To narrow the Google search results to the *z/OS Security Server RACF Messages and Codes* book, add the *inurl* operator to your search criteria.



The screenshot shows a Google search interface. The search bar contains the text "ICH408I site:ibm.com/support/knowledgecenter/SSLTBW_2.1.0 inurl:icha600". Below the search bar, the "Web" tab is selected. The results show "About 96 results (0.39 seconds)". Four search results are listed, each with a title, a URL, and a description.

Google

ICH408I site:ibm.com/support/knowledgecenter/SSLTBW_2.1.0 inurl:icha600

Web Maps Shopping Videos News More Search tools

About 96 results (0.39 seconds)

ICH408I - IBM
www-01.ibm.com/support/.../SSLTBW_2...icha600/idg4770.htm IBM
A user attempted to access the system specifying a password phrase that is not valid or specifying a password phrase for a protected user ID.

ICH408I - IBM.com
www-01.ibm.com/support/.../SSLTBW...icha600/gk00598.htm IBM
A user attempted to: log on to the system,; submit a job,; perform a transaction, or; in general, cause some unit of work to be initiated from a RACF® defined port ...

ICH408I - IBM.com
www-01.ibm.com/support/.../SSLTBW...icha600/gk00599.htm IBM
LOGON/JOB INITIATION - REVOKED USER ACCESS ATTEMPT.

ICH408I - IBM.com
www-01.ibm.com/support/.../SSLTBW...icha600/gk00602.htm IBM
Submitter does not have authorization to the security label required to run the job. You cannot use a particular security label (either for logging on or for initiating ...



Locating content in IBM Knowledge Center using a Google search continued

Selecting the first item in the Google search results, opens IBM Knowledge Center and navigates directly to the selected topic.

The screenshot displays the IBM Knowledge Center web application. At the top, the IBM logo and 'IBM Knowledge Center' are visible. A search bar is present with a search icon and the text 'Search'. Below the search bar, there are search filters: 'z/OS 2.1.0' (selected), 'Auto-select' (checked), 'Clear All', and 'Add Products...'. A yellow callout bubble points to the search filters, stating: 'Use the breadcrumb to determine your location within IBM Knowledge Center'. On the left side, there is a 'Table of Contents' section with a list of 'ICH408I' messages. A blue callout bubble points to this list, stating: 'There are multiple ICH408I messages. To narrow the search to a specific version, select the message number in the search criteria.' The main content area shows the breadcrumb path: 'z/OS 2.1.0 > z/OS Security Server RACF > z/OS Security Server RACF Messages and Codes > ICH Messages for the system operator > RACF processing messages > ICH408I'. Below this, there is a section for 'z/OS Security Server RACF Messages and Codes' with links for 'Previous topic', 'Next topic', 'Contents', 'Contact z/OS', 'Library', and 'PDF'. The specific message 'ICH408I' is highlighted, followed by the text 'z/OS Security Server RACF Messages and Codes SA23-2291-00'. The message details show 'ICH408I' and the text 'LOGON/JOB INITIATION - PASS PHRASE IS NOT VALID'. Below this, there is an 'Explanation' section stating: 'A user attempted to access the system specifying a password phrase that was not valid for the user ID specifying a password phrase for a protected user ID.' At the bottom, there are links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Feedback'.

IBM Knowledge Center

Search

Search Filters: z/OS 2.1.0 ☒ Auto-select | Clear All | Add Products...

Table of Contents

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

ICH408I

Results

z/OS 2.1.0 > z/OS Security Server RACF > z/OS Security Server RACF Messages and Codes > ICH Messages for the system operator > RACF processing messages > ICH408I

z/OS Security Server RACF Messages and Codes

SA23-2291-00

ICH408I

LOGON/JOB INITIATION - PASS PHRASE IS NOT VALID

Explanation

A user attempted to access the system specifying a password phrase that was not valid for the user ID specifying a password phrase for a protected user ID.

Contact | Privacy | Terms of use | Accessibility | Feedback

Tip: There are multiple versions of message ICH408I. To narrow your search to a specific version, include the message text in the search criteria.

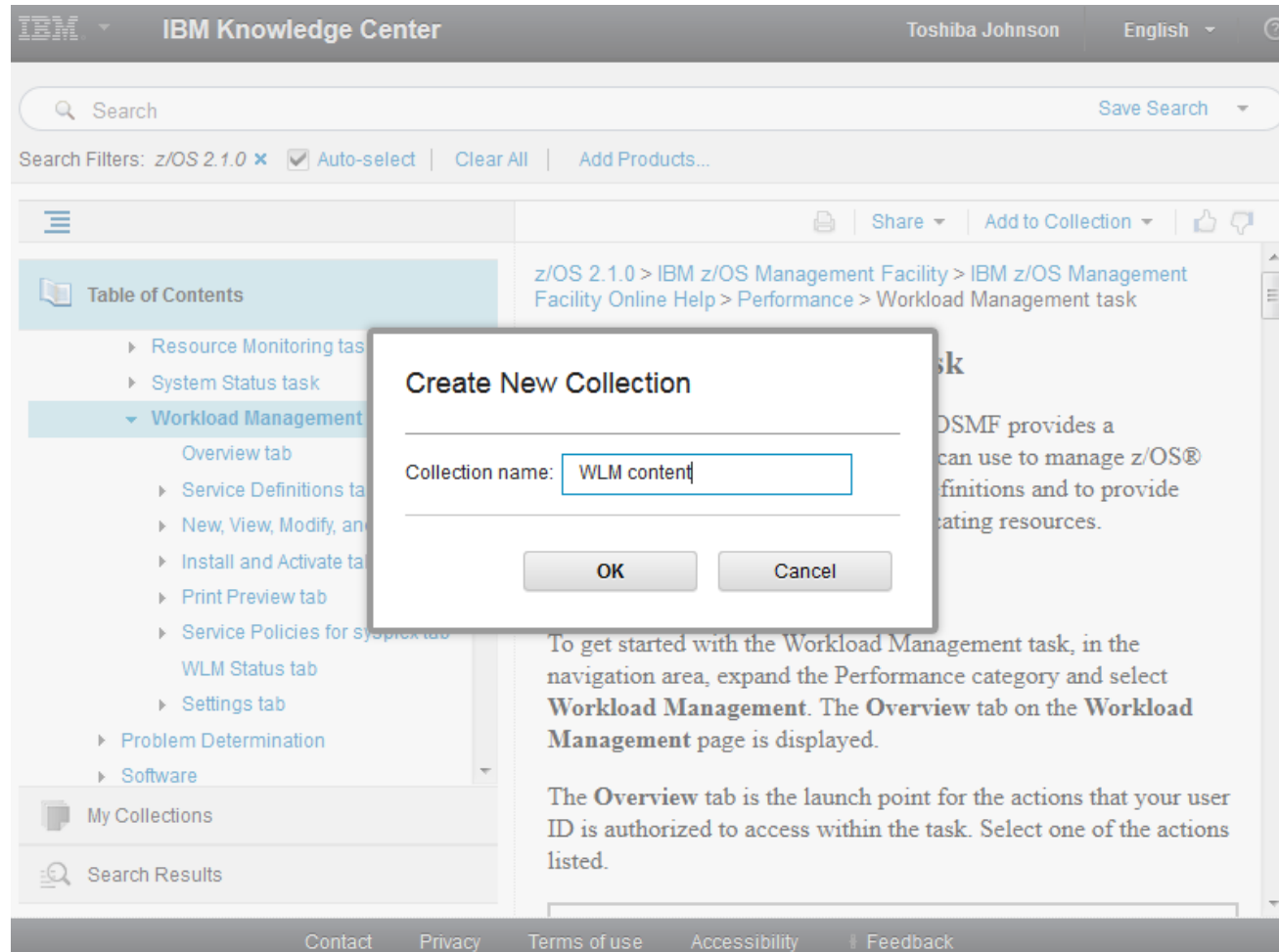
Creating collections

To add a topic and its subtopics to a new collection, right-click the topic and select **Add this topic and its subtopics to a new collection** from the context menu.

The screenshot displays the IBM Knowledge Center interface. At the top, the header includes the IBM logo, the text 'IBM Knowledge Center', the user name 'Toshiba Johnson', and the language 'English'. Below the header is a search bar with the text 'Search' and a 'Save Search' button. Under the search bar, the search filters are listed: 'z/OS 2.1.0', 'Auto-select' (checked), 'Clear All', and 'Add Products...'. The main content area is divided into a left navigation pane and a right content pane. The left navigation pane shows a 'Table of Contents' with a tree structure. The 'Workload Management task' is selected, and a context menu is open over it, showing options: 'Open in new tab', 'Open in new tab (content only)', 'Add this topic and its subtopics to an existing collection', and 'Add this topic and its subtopics to a new collection' (highlighted). The right content pane displays the 'Workload Management task' page, which includes a breadcrumb trail: 'z/OS 2.1.0 > IBM z/OS Management Facility > IBM z/OS Management Facility Online Help > Performance > Workload Management task'. The page title is 'Workload Management task'. The content area contains a paragraph: 'The Workload Management task in z/OSMF provides a way to manage z/OS® that you can use to manage z/OS® service definitions and to provide resources when allocating resources.' Below this is a section titled 'Getting started' with two paragraphs: 'To get started with the Workload Management task, in the navigation area, expand the Performance category and select Workload Management. The Overview tab on the Workload Management page is displayed.' and 'The Overview tab is the launch point for the actions that your user ID is authorized to access within the task. Select one of the actions listed.'

Creating collections continued

In the **Collection name** field in the Create New Collection window, enter the name to use for the collection. Then, click **OK**.



Creating collections continued

The collection you created is listed in the My Collections view. To display it, click **My Collections**.

The screenshot displays the IBM Knowledge Center web application. At the top, the header includes the IBM logo, the text 'IBM Knowledge Center', the user name 'Toshiba Johnson', and a language dropdown set to 'English'. Below the header is a search bar with a magnifying glass icon, the text 'Search', and a 'Save Search' button. Under the search bar, search filters are shown: 'z/OS 2.1.0' with a close icon, 'Auto-select' with a checked checkbox, and links for 'Clear All' and 'Add Products...'. The main content area is divided into a left sidebar and a right pane. The sidebar contains a 'Table of Contents' link and a 'My Collections' section. The 'My Collections' section is highlighted with a yellow border and contains a 'WLM content' dropdown menu. The 'WLM content' menu is expanded, showing 'Workload Management task' as the selected item. Below this, a list of tabs is visible: 'Overview tab' (highlighted in blue), 'Service Definitions tab', 'New, View, Modify, and Copy tabs', 'Install and Activate tab', 'Print Preview tab', 'Service Policies for sysplex tab', 'WLM Status tab', and 'Settings tab'. The right pane displays the article for the 'Workload Management task'. The breadcrumb trail at the top of the article reads: 'z/OS 2.1.0 > IBM z/OS Management Facility > IBM z/OS Management Facility Online Help > Performance > Workload Management task'. The article title is 'Workload Management task'. The text describes the task as a browser-based user interface for managing z/OS® Workload Manager (WLM) service definitions and allocating resources. A section titled 'Getting started' provides instructions on how to access the task via the navigation area. The footer of the page contains links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', and 'Feedback'.

IBM Knowledge Center

Toshiba Johnson English

Search Save Search

Search Filters: z/OS 2.1.0 x Auto-select Clear All Add Products...

Table of Contents

My Collections

WLM content

Workload Management task

Overview tab

Service Definitions tab

New, View, Modify, and Copy tabs

Install and Activate tab

Print Preview tab

Service Policies for sysplex tab

WLM Status tab

Settings tab

Search Results

z/OS 2.1.0 > IBM z/OS Management Facility > IBM z/OS Management Facility Online Help > Performance > Workload Management task

Workload Management task

The Workload Management task in z/OSMF provides a browser-based user interface that you can use to manage z/OS® Workload Manager (WLM) service definitions and to provide guidelines for WLM to use when allocating resources.

Getting started

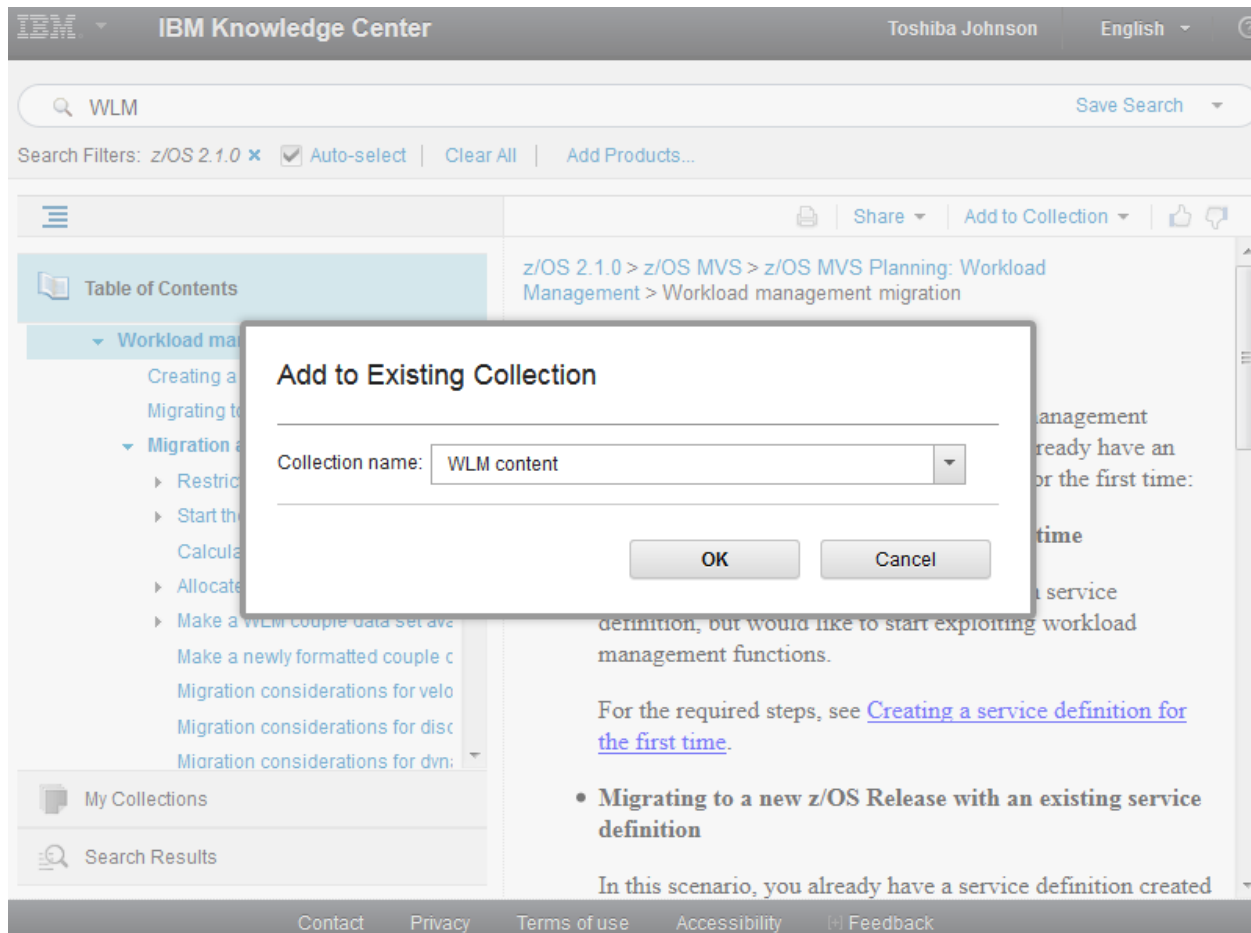
To get started with the Workload Management task, in the navigation area, expand the Performance category and select **Workload Management**. The **Overview** tab on the **Workload Management** page is displayed.

The **Overview** tab is the launch point for the actions that your user ID is authorized to access within the task. Select one of the actions listed.

Contact Privacy Terms of use Accessibility Feedback

Creating collections continued

To add additional content to the collection, return to the Table of Contents view, right-click the topics to be added, and select **Add this topic and its subtopics to an existing collection**. Then, in the Add to Existing Collection window, select the desired collection.



Creating collections continued

Return to the My Collections view to browse the topics included in your collection, and to manage your collection.

The screenshot shows the IBM Knowledge Center interface. At the top, the user is logged in as 'Toshiba Johnson' in 'English'. A search bar contains 'WLM' with a 'Save Search' button. Below the search bar, search filters for 'z/OS 2.1.0' and 'Auto-select' are visible. The left sidebar shows a 'Table of Contents' and 'My Collections'. Under 'My Collections', the 'WLM content' collection is expanded, showing a list of topics: 'Workload Management task', 'Workload management migration', and 'Customizing the WLM ISPF application'. At the bottom of the sidebar is a 'Search Results' section. The main content area is titled 'WLM content' and includes a 'Click Edit to modify, organize' instruction. Two callout boxes provide instructions: one points to the 'Create PDF File' button, stating 'To create a PDF that contains all the content in a collection, click **Create PDF File**.'; the other points to the 'Edit' button, stating 'To re-arrange the topics in a collection or to remove topics, click **Edit**.'

IBM Knowledge Center

Toshiba Johnson English

WLM

Search Filters: z/OS 2.1.0 Auto-select Clear All products...

Table of Contents

My Collections

WLM content

- Workload Management task
- Workload management migration
- Customizing the WLM ISPF application

Search Results

WLM content

Click Edit to modify, organize

Create PDF File Edit

Contact Privacy Terms of use Accessibility Feedback

Backup Resources

Essential z/OS-related bookmarks

Resource	Description	URL
z/Favorites	List of bookmarks for the mainframe	www.ibm.com/systems/z/os/zos/library/zfavorites/
IBM Publications Center	Download and view softcopy files and collections	www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss
IBM Knowledge Center	One stop shopping for all IBM product documentation	www.ibm.com/support/knowledgecenter/
IBM Knowledge Center Mobile	Mobile version of KC	www.ibm.com/support/knowledgecenter/mobile/
z/OS in IBM Knowledge Center	Entry point for all releases of z/OS in IBM Knowledge Center	www.ibm.com/support/knowledgecenter/#/SSLTBW/welcome
Download z/OS V2R1 PDFs	List of all available PDFs by z/OS element	www.ibm.com/systems/z/os/zos/library/bkserv/v2r1pdf/
z/OS Hot Topics Newsletters	Learn about key z/OS topics and features	www.ibm.com/systems/z/os/zos/library/hot-topics/hot-topics.html
IBM z Systems Redbooks	List of all available Redbooks for z Systems	www.redbooks.ibm.com/portals/systemz
IBM Softcopy Librarian	Download an entire collect kit of PDFs, and keep them current	www.ibm.com/support/docview.wss?uid=swg24000640



Videos

- Live Stream of Mainframe50: www.livestream.com/ibmsystemz
- IBM Mainframe50 Landing Page: ibm.com/mainframe50
- Mainframe50 Tumblr: mainframe50.tumblr.com/
- The IBM Mainframe Weekly Paper.li: paper.li/IBM_System_z/1386866312
- Engines of Progress: (Launching April 7) www.ibm.com/mainframe/enginesofprogress
- Master the Mainframe: www.ibm.com/systems/z/education/academic/masterthemainframe
- YouTube IBM z Systems: www.youtube.com/user/IBMSystemz
- YouTube Destination z: www.youtube.com/user/destinationz1



Facebook pages and LinkedIn profiles

- IBM System z: www.facebook.com/IBMSystemz?ref=tn_tnmn
- IBM Master the Mainframe Contest: www.facebook.com/MasterTheMainframe?fref=ts
- IBM Destination z: www.facebook.com/IBMDestinationz
- SHARE Inc: www.facebook.com/SHAREonSocial and www.linkedin.com/groups?trk=myg_ugrp_ovr&gid=1803278
- System z Advocates: www.linkedin.com/groups/System-z-Advocates-155723?mostPopular=&gid=155723
- IBM Mainframe – Unofficial Group: ibm.biz/BdRJgg
- IBM z Systems Events: www.linkedin.com/groups/IBM-System-z-Events-3053018?trk=myg_ugrp_ovr
- Mainframe Experts Network: www.linkedin.com/groups/Mainframe-Experts-Network-55779?trk=myg_ugrp_ovr



Blogs, listservs, and publications

- IBM Mainframe Insights: www.ibm.com/connections/blogs/systemz/?lang=en_us
- Millennial Mainframer: www.millennialmainframer.com
- #MainframeDebate blog: mainframedebate.blogspot.co.uk
- SHARE blog: www.share.org/p/bl/et/
- IBM Destination z: www.destinationz.org/Community.aspx
- Publications such as *Enterprise Executive*, *Enterprise Tech Journal*, *IBM Systems Magazine*, and *CMG Measure IT* are all great resources that typically are little to no cost for subscriptions. Most of these publications also have websites with up-to-date industry news.
- IBM MAIN is a news group (listserv). For best results, subscribe to the daily digest.



z/OS Book Identifiers

z/OS book identifiers by element

Element	Book Title	Book Identifier
BDT	z/OS BDT Installation	bdta400
BDT	z/OS BDT File-to-File Transaction Guide	bdta500
BDT	z/OS BDT Commands	bdta600
BDT	z/OS BDT Messages and Codes	bdta700
BDT	z/OS BDT Diagnosis Reference	bdta800
BookManager	Library Server: Getting Started	bkma900
BookManager	IBM BookManager READ/MVS: Installation Planning and Customization	bkma400
BookManager	IBM BookManager READ/MVS: Displaying Online Books	bkma300
BookManager	IBM BookManager READ/MVS: Getting Started	bkma200
BookManager	IBM BookManager READ/MVS and BUILD/MVS: General Information	bkma100
BookManager	Installing, Managing, Using Online Library	ab0in02
BookManager	IBM Softcopy Reader User's Guide V3.8.0	hlcrug2
BookManager	IBM Softcopy Librarian V5: UG	ebrscl1
Encryption Facility for z/OS	IBM Encryption Facility for z/OS: Planning and Customizing	csde100
Encryption Facility for z/OS	IBM Encryption Facility for z/OS: Using Encryption Facility for OpenPGP	csdd100
Encryption Facility for z/OS	IBM Encryption Facility for z/OS: User's Guide	csda100
EREP	EREP V3R5 Reference	ifc2000
EREP	EREP V3R5 User's Guide	ifc1000
HLASM	HLASM V1R6 Toolkit Feature Installation Guide	asmk400
HLASM	HLASM V1R6 Toolkit Feature Interactive Debug Facility User's Guide	asmk300
HLASM	HLASM V1R6 Toolkit Feature User's Guide	asmk200
HLASM	HLASM V1R6 Toolkit Feature Debug Reference Summary	asmk100
HLASM	HLASM V1R6 Installation and Customization Guide	asma500
HLASM	HLASM V1R6 Language Reference	asma400
HLASM	HLASM V1R6 General Information	asma200
HLASM	HLASM V1R6 Programmer's Guide	asma100
IBM HTTP Server	z/OS V2R2 HTTP Server User's Guide	dprc100
IBM HTTP Server	z/OS V1R6.0 HTTP Server Planning, Installing, and Using	dgwa400
IBM Ported Tools for z/OS	IBM Ported Tools for z/OS: OpenSSH User's Guide	fotz100
IBM Ported Tools for z/OS: Supplementary Toolkit for z/OS Feature	IBM Ported Tools for z/OS: Supplementary Toolkit for z/OS Feature User's Guide and Reference	hpuz200

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
IBM Tivoli Directory Server for z/OS	z/OS V2R2 IBM Tivoli Directory Server Client Programming for z/OS	Glpa100
IBM Tivoli Directory Server for z/OS	z/OS V2R2 IBM Tivoli Directory Server Administration and Use for z/OS	Glpa200
IBM Tivoli Directory Server for z/OS	z/OS V2R1 IBM Tivoli Directory Server Plug-in Reference for z/OS	Glpa300
IBM Tivoli Directory Server for z/OS	z/OS V2R2 IBM Tivoli Directory Server Messages and Codes for z/OS	glpa400
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Monitoring Agent Configuration and User's Guide	ingt100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 End-to-End Automation Adapter	inge100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 TWS Automation Programmer's Reference and Operator's Guide	evjr100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Product Automation Programmer's Reference and Operator's Guide	ever100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Programmer's Reference	ingq100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Operator's Commands	ingx100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Messages and Codes	ingm100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for OS V3R4.0 User's Guide	ingu100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Defining Automation Policy	ingc100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Planning and Installation	ingp100
IBM Tivoli System Automation for z/OS	IBM Tivoli System Automation for z/OS V3R4.0 Customizing and Programming	ingo100
IBM z/OS Management Facility	IBM z/OSMF V2R2 Configuration Guide	izua300
IBM z/OS Management Facility	IBM z/OSMF V2R2 Programming Guide	izua700
IBM z/OS Management Facility	IBM z/OSMF Online Help	zosmf.onlinehelp
IBM z/OS Management Facility	z/OSMF GPM Messages: GPM0500-GPM1008	gpmmessages
IBM z/OS Management Facility	z/OSMF Configuration Assistant task	tcp.ipsec.ipsec
IBM z/OS Management Facility	z/OSMF Capacity Provisioning task	zosmfcapacityprov
IBM z/OS Management Facility	z/OSMF Capacity Provisioning Messages: IZUCP0001-IZUCP9999	zosmfcapacityprov.messages
IBM z/OS Management Facility	z/OSMF Administration category	zosmfcore.administration
IBM z/OS Management Facility	z/OSMF Application Linking Manager task: Creating context-sensitive launch points between applications	zosmfcore.applinks
IBM z/OS Management Facility	z/OS Classic Interfaces category	zosmfcore.classicinterfaces
IBM z/OS Management Facility	z/OSMF Commands and Logs category	zosmfcore.commandlog
IBM z/OS Management Facility	z/OSMF Configuration category	zosmfcore.configuration
IBM z/OS Management Facility	Getting started with z/OSMF	zosmfcore.general
IBM z/OS Management Facility	z/OSMF Import Manager task: Importing installation-specific function into z/OSMF	zosmfcore.importmgr
IBM z/OS Management Facility	z/OSMF Jobs and Resources category	zosmfcore.jobresources

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
IBM z/OS Management Facility	z/OSMF Links task: Linking to frequently used web resources	zosmfcore.links
IBM z/OS Management Facility	z/OSMF Links category	zosmfcore.linksuser
IBM z/OS Management Facility	z/OSMF Core Messages: IZUG0400-IZUG9999	zosmfcore.messages
IBM z/OS Management Facility	z/OSMF Systems and FTP Servers tasks: Enabling data and file transfer between systems	zosmfcore.multisysplex
IBM z/OS Management Facility	z/OSMF Notifications task	zosmfcore.notifications
IBM z/OS Management Facility	z/OSMF Performance category	zosmfcore.performance
IBM z/OS Management Facility	z/OSMF Problem Determination category	zosmfcore.problemdetermination
IBM z/OS Management Facility	z/OSMF Settings category	zosmfcore.settings
IBM z/OS Management Facility	z/OSMF Software category	zosmfcore.software
IBM z/OS Management Facility	z/OSMF Tools and Techniques for Troubleshooting	zosmfcore.troubleshooting
IBM z/OS Management Facility	z/OSMF Welcome task	zosmfcore.welcome
IBM z/OS Management Facility	z/OSMF Software Management task	zosmfdeployment
IBM z/OS Management Facility	z/OSMF Software Management Messages: IZUD0001-IZUD9999	zosmfdeployment.messages
IBM z/OS Management Facility	z/OSMF Incident Log task	zosmfincidentlog
IBM z/OS Management Facility	z/OSMF Incident Log Messages: IZUP0001-IZUP9999	zosmfincidentlog.messages
IBM z/OS Management Facility	z/OSMF ISPF task	zosmfispf
IBM z/OS Management Facility	z/OSMF ISPF Messages: IZUIS0001-IZUIS9999	zosmfispf.messages
IBM z/OS Management Facility	z/OSMF Messages category	zosmfmessages
IBM z/OS Management Facility	z/OSMF Resource Monitoring task	zosmfmondesktops
IBM z/OS Management Facility	z/OSMF Resource Monitoring Messages: IZUR0001-IZUR9999	zosmfresourcemon.messages
IBM z/OS Management Facility	z/OSMF System Status task	zosmfsysplexstatus
IBM z/OS Management Facility	z/OSMF Workflows task	zosmfworkflows
IBM z/OS Management Facility	z/OSMF Workflows Messages: IZUWF0001-IZUWF9999	zosmfworkflows.messages
IBM z/OS Management Facility	z/OSMF Workload Management task	zosmfworkloadmgmt
IBM z/OS Management Facility	z/OSMF Workload Management Messages: IZUWF0001-IZUWF9999	zosmfworkloadmgmt.messages
IBM z/OS Management Facility	z/OSMF SDSF task	zosmfdsdf.jobresources
IBM z/OS Management Facility	z/OSMF SDSF Settings	zosmfdsdf.settings
IBM z/OS Management Facility	z/OSMF SDSF Messages: ISF3001-ISF3999	zosmfdsdf.jobresources.messages
ICKDSF	ICKDSF R17 User's Guide	ickug00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Print Transform from AFP to PostScript for Infoprint Server for z/OS LPS, V1.1	aoklc00

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Print Transform from AFP to PDF for Infoprint Server for z/OS LPS, V1.1	aoklb00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Print Transform from AFP to PCL for Infoprint Server for z/OS LPS, V1.1	aokla00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Print Transforms from AFP for Infoprint Server for z/OS, V1.1	aokfa00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Infoprint Transforms to AFP for z/OS, V2.3	aopta00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Infoprint XT V3R1 for z/OS: LPS	aiol000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Infoprint XT V3R1 for z/OS	aioc000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server User's Guide	aopu000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server Operation and Administration	aopo000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server Messages and Diagnosis	aopm000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server Introduction	aopa000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server Customization	aops000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	Page Printer Formatting Aid: User's Guide	ib6p000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF for z/OS: ACIF User's Guide	apku000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	DCF: SCRIPT/VS Text Programmer's Guide	dsm0700
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM: BookMaster User's Guide	edfuma0
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	DCF: GML Starter Set Reference	dsm0900
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	DCF: SCRIPT/VS User's Guide	dsm0800
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	DCF: SCRIPT/VS Messages	dsm0a00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R4 for z/OS: LPS	apsl000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: AFP Download Plus	apsp000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: Download for z/OS	apsw000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R4 for z/OS: Security Guide	apsb000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: Diagnosis	apsd000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: User's Guide	apsu000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: Customization	apss000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: Introduction	apsa000
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	PSF V4R5 for z/OS: Messages and Codes	apsm800
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Infoprint Transforms to AFP for z/OS LPS, V2.3	aoplt00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	IBM Infoprint Coaxial Printer Support for z/OS LPS, V2.1	aoplc00
Infoprint Server, Infoprint Transforms PSF for z/OS, DCF, fonts	z/OS V2R2 Infoprint Server Printer Inventory for PSF	aoppi00

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
ISPF	z/OS V2R2 ISPF User's Guide Vol II	f54u200
ISPF	z/OS V2R2 ISPF Services Guide	f54sg00
ISPF	z/OS V2R2 ISPF User's Guide Vol I	f54ug00
ISPF	z/OS V2R2 ISPF SCLM Guide and Reference	f54pd00
ISPF	z/OS V2R2 ISPF Reference Summary	f54rs00
ISPF	z/OS V2R2 ISPF Planning and Customizing	f54pc00
ISPF	z/OS V2R2 ISPF Messages and Codes	f54mc00
ISPF	z/OS V2R2 ISPF Edit and Edit Macros	f54em00
ISPF	z/OS V2R2 ISPF DTL Guide	f54dt00
ISPF	z/OS V2R2 ISPF Dialog Developer's Guide and Reference	f54dg00
Knowledge Center for z/OS	z/OS V2R2 IBM Knowledge Center for z/OS Configuration and User's Guide	hkcz100
Open Systems Adapter (OSA)	z Systems OSA-Express Guide	ioaz100
Open Systems Adapter (OSA)	OSA-ICC User's Guide	ioam100
Open Systems Adapter (OSA)	OSA-ICC 3215 Support	ioan100
Open Systems Adapter (OSA)	OSA-Express3 ICC Dual-Port User's Guide	ioaq100
Open Systems Adapter (OSA)	OSA/SF on HMC	ioas100
REXX Alternate Library	IBM Compiler and Library for REXX on System z: User's Guide and Reference	rexa100
REXX Alternate Library	IBM Compiler and Library for REXX on System z: Diagnosis Guide	rexb100
Runtime Library Extensions	z/OS V2R2 Common Debug Architecture User's Guide	cbcd01
Runtime Library Extensions	z/OS V2R2 Common Debug Architecture Library Reference	cbcdl01
Runtime Library Extensions	DWARF/ELF Extensions Library Reference	cbcd01
SDSF	z/OS V2R2 SDSF Operation and Customization	isfa500
SMP/E Version 3	SMP/E User's Guide	gim3000
SMP/E Version 3	SMP/E Reference	gim2000
SMP/E Version 3	SMP/E Messages, Codes, and Diagnosis	gim0000
SMP/E Version 3	SMP/E Commands	gim1000
z/OS Common Information Model	z/OS V2R2 Common Information Model User's Guide	cfzu100
z/OS Communications Server	z/OS V2R1 Comm Svr: ACF/TAP Trace	istacf0
z/OS Communications Server	z/OS V2R2.0 Communications Server: IPv6 Network and Appl Design Guide	hale001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Diagnosis Guide	hald001

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Messages Volume 1 (EZA)	halm001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Messages Volume 2 (EZB, EZD)	halw001
z/OS Communications Server	z/OS V2R1.0 Communications Server: IP Messages Volume 3 (EZY)	halb001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Messages Volume 4 (EZZ, SNM)	halb101
z/OS Communications Server	z/OS V2R2.0 Communications Server: New Function Summary	halg001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Configuration Guide	halz002
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Configuration Reference	halz001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Programmer's Guide and Reference	halx001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP User's Guide and Commands	halu001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP System Administrator's Commands	halu101
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP Sockets Application Programming Interface Guide and Reference	hala001
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP CICS Sockets Guide	halc001
z/OS Communications Server	z/OS V2R1.0 Communications Server: IP IMS Sockets Guide	hali001
z/OS Communications Server	z/OS V2R1.0 Communications Server: IP Network Print Facility	halp001
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Network Implementation Guide	istimp0
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Resource Definition Reference	istrdr0
z/OS Communications Server	z/OS V2R1.0 Communications Server: SNA Resource Definition Samples	istsmp0
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Operation	istopr0
z/OS Communications Server	z/OS V2R2.0 Communications Server: Quick Reference	istopq0
z/OS Communications Server	z/OS V2R1.0 Communications Server: SNA Customization	istcst0
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Diagnosis Vol 1, Techniques and Procedures	istdgn1
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Diagnosis Vol 2, FFST Dumps and the VIT	istdgn2
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Messages	istmnc0
z/OS Communications Server	z/OS V2R2.0 Communications Server: IP and SNA Codes	cs3cod0
z/OS Communications Server	z/OS V2R2.0 Communications Server: SNA Programmer's LU 6.2 Guide	istp620
z/OS Communications Server	z/OS V2R1.0 Communications Server: SNA Programmer's LU 6.2 Reference	istr620
z/OS Communications Server	z/OS V2R2.0 Communications Server: CSM Guide	istcsm0
z/OS Communications Server	z/OS V2R1.0 Communications Server: SNA Programming	istprg0
z/OS Communications Server	z/OS V2R1.0 Communications Server: CMIP Services and Topology Agent Guide	istagt0
z/OS Communications Server	z/OS V2R1 Communications Server Glossary	halq001

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS Cryptographic Services	z/OS ICSF Writing PKCS #11 Applications	csfba00
z/OS Cryptographic Services	z/OS ICSF System Programmer's Guide	csfb200
z/OS Cryptographic Services	z/OS ICSF Administrator's Guide	csfb300
z/OS Cryptographic Services	z/OS ICSF Application Programmer's Guide	csfb400
z/OS Cryptographic Services	z/OS ICSF Overview	csfb500
z/OS Cryptographic Services	z/OS ICSF Messages	csfb700
z/OS Cryptographic Services	z/OS Cryptographic Services ICSF TKE Workstation User's Guide	csfb600
z/OS Cryptographic Services	z/OS V2R2 Cryptographic Services PKI Services Guide and Reference	ikya100
z/OS Cryptographic Services	z/OS V2R2 System SSL Programming	gska100
z/OS DFSMS	DFSMS Optimizer Messages and Codes	idaop01
z/OS DFSMS	DFSMS Optimizer User's Guide and Reference	idaop00
z/OS DFSMS	Character Data Representation Architecture Overview	cdrao00
z/OS DFSMS	Character Data Representation Architecture Reference and Registry	cdraa00
z/OS DFSMS	z/OS V2R1 DFSMSStvs Administration Guide	idat300
z/OS DFSMS	z/OS V2R2 DFSMSStvs Planning and Operating Guide	idat100
z/OS DFSMS	z/OS V2R2 DFSMS Advanced Copy Services	antg000
z/OS DFSMS	z/OS V2R2 DFSMSShsm Diagnosis	arck000
z/OS DFSMS	z/OS V2R2 DFSMSdss Storage Administration	adru000
z/OS DFSMS	z/OS V2R2 DFSMSShsm Implementation and Customization Guide	arci000
z/OS DFSMS	z/OS V2R2 DFSMSShsm Storage Administration	arcf000
z/OS DFSMS	z/OS V2R2 DFSMSrmm Reporting	idarr00
z/OS DFSMS	z/OS V2R2 DFSMSShsm Managing Your Own Data	arcd000
z/OS DFSMS	z/OS V2R2 DFSMSrmm Diagnosis Guide	idard00
z/OS DFSMS	z/OS V2R2 DFSMSrmm Application Programming Interface	idara00
z/OS DFSMS	z/OS V2R2 DFSMSrmm Implementation and Customization Guide	idarc00
z/OS DFSMS	z/OS V2R2 DFSMSrmm Managing and Using Removable Media	idarm00
z/OS DFSMS	z/OS V2R2 DFSMS OAM Planning, Installation, and Storage Administration Guide for Tape Libraries	idao300
z/OS DFSMS	z/OS V2R2 DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support	idao200
z/OS DFSMS	z/OS V2R2 DFSMS OAM Application Programmer's Reference	idao100
z/OS DFSMS	z/OS DFSMS Software Support for IBM System Storage TS1140, TS1130, and TS1120 Tape Drives (3592)	idaj100

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS DFSMS	z/OS V2R2 DFSMS Implementing System-Managed Storage	idai600
z/OS DFSMS	z/OS V2R1 DFSMS Using the Volume Mount Analyzer	idav100
z/OS DFSMS	z/OS V2R2 DFSMS Using Magnetic Tapes	idam300
z/OS DFSMS	z/OS V2R2 DFSMSdfp Diagnosis	idar100
z/OS DFSMS	z/OS V2R1 DFSMS Distributed FileManager Guide and Reference	idam500
z/OS DFSMS	z/OS V2R2 DFSMSdfp Utilities	idau100
z/OS DFSMS	z/OS V2R2 DFSMS Using ISMF	idai500
z/OS DFSMS	z/OS V2R2 DFSMSdfp Storage Administration	idas200
z/OS DFSMS	z/OS V2R2 DFSMS Access Method Services Commands	idai200
z/OS DFSMS	z/OS V2R2 DFSMSdfp Advanced Services	idas300
z/OS DFSMS	z/OS V2R2 DFSMS Macro Instructions for Data Sets	idad500
z/OS DFSMS	z/OS V2R2 DFSMS Using Data Sets	idad400
z/OS DFSMS	z/OS V2R1 DFSMSdfp Checkpoint/Restart	idac400
z/OS DFSMS	z/OS V2R2 DFSMS Managing Catalogs	idac100
z/OS DFSMS	z/OS V2R2 DFSMS Installation Exits	idac700
z/OS DFSMS	z/OS V2R1 DFSMS Introduction	idag200
z/OS DFSMS	z/OS V2R2 DFSMS Using the New Functions	idak100
z/OS DFSMS	z/OS DFSMSshm Data Areas	idada00
z/OS DFSORT	z/OS V2R2 DFSORT Tuning Guide	icet100
z/OS DFSORT	z/OS V2R2 DFSORT Messages, Codes and Diagnosis Guide	icem100
z/OS DFSORT	z/OS V2R2 DFSORT Installation and Customization	icei100
z/OS DFSORT	z/OS V2R2 DFSORT Application Programming Guide	icea100
z/OS DFSORT	z/OS V2R2 DFSORT: Getting Started	iceg200
z/OS Distributed File Service	z/OS V2R2 Distributed File Service zFS Administration	ioea700
z/OS Distributed File Service	z/OS V2R2 Distributed File Service SMB Administration	ioea600
z/OS Distributed File Service	z/OS V2R2 Distributed File Service Messages and Codes	ioea500
z/OS HCD	z/OS V2R2 HCD Planning	ieag800
z/OS HCD	z/OS V2R2 and z/VM V6R2.0 HCD Messages	cbdm100
z/OS HCD	z/OS V2R2 HCD User's Guide	cbdu100
z/OS HCM	z/OS V2R2 and z/VM V6R2.0 HCM User's Guide	eequ100

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS Integrated Security Services	z/OS V2R1 Integrated Security Services EIM Guide and Reference	eima100
z/OS Integrated Security Services	z/OS V2R2 Integrated Security Services Network Authentication Service Programming	euvfb00
z/OS Integrated Security Services	z/OS V2R2 Integrated Security Services Network Authentication Service Administration	euvfa00
z/OS Integrated Security Services	z/OS OCSF Module Developer's Guide and Reference	cdsa200
z/OS Integrated Security Services	z/OS OCSF Application Programming	cdsa100
z/OS Integrated Security Services	z/OS Integrated Security Services Open Cryptographic Enhanced Plug-ins Application Programming	ceqa100
z/OS JES2	z/OS V2R2 JES2 Commands	hasa200
z/OS JES2	z/OS V2R2 JES2 Messages	hasa100
z/OS JES2	z/OS V2R2 JES Application Programming	hasc300
z/OS JES2	V2R2 Network Job Entry (NJE) Formats and Protocols	hasa600
z/OS JES2	z/OS V2R2 JES2 Macros	hasc200
z/OS JES2	z/OS V2R1 JES2 Introduction	hasa800
z/OS JES2	z/OS V2R2 JES2 Installation Exits	hasc100
z/OS JES2	z/OS V2R1 JES2 Diagnosis	hasa700
z/OS JES2	z/OS V2R2 JES2 Initialization and Tuning Guide	hasa300
z/OS JES2	z/OS V2R2 JES2 Initialization and Tuning Reference	hasa400
z/OS JES2	z/OS JES2 Data Areas Volume 1	a3208450
z/OS JES2	z/OS JES2 Data Areas Volume 2	a320846
z/OS JES2	z/OS JES2 Data Areas Volume 3	a320847
z/OS JES2	z/OS JES2 Data Areas Volume 4	a320848
z/OS JES2	z/OS JES2 Data Areas Volume 5	a320849
z/OS JES3	z/OS V2R2 JES3 Diagnosis	iata300
z/OS JES3	z/OS V2R2 JES3 Initialization and Tuning Guide	iata600
z/OS JES3	z/OS V2R1 JES3 Introduction	iata700
z/OS JES3	z/OS V2R2 JES3 Initialization and Tuning Reference	iata800
z/OS JES3	z/OS V2R2 JES3 Customization	iatb100
z/OS JES3	z/OS V2R2 JES3 Messages	iatb200
z/OS JES3	z/OS V2R2 JES3 Commands	iatb300
z/OS JES3	z/OS V2R2 JES3 Diagnosis Reference	iatb400
z/OS JES3	z/OS JES3 Data Areas Volume 1	a320850

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS JES3	z/OS JES3 Data Areas Volume 2	a320851
z/OS JES3	z/OS JES3 Data Areas Volume 3	a320852
z/OS Language Environment	z/OS V2R2 Language Environment Vendor Interfaces	ceev100
z/OS Language Environment	z/OS V2R1 Language Environment Programming Guide for 64-bit Virtual Addressing Mode	ceeam00
z/OS Language Environment	z/OS V2R2 Language Environment Runtime Messages	ceea900
z/OS Language Environment	z/OS V2R1 Language Environment Concepts Guide	ceea800
z/OS Language Environment	z/OS V2R1 Language Environment Runtime Application Migration Guide	ceea600
z/OS Language Environment	z/OS V2R2 Language Environment Customization	ceea500
z/OS Language Environment	z/OS V2R1.0 Language Environment Writing ILC Applications	ceea400
z/OS Language Environment	z/OS V2R2 Language Environment Programming Guide	ceea200
z/OS Language Environment	z/OS V2R2 Language Environment Programming Reference	ceea300
z/OS Language Environment	z/OS V2R2 Language Environment Debugging Guide	ceea100
z/OS Metal C Runtime Library	z/OS V2R2 Metal C Programming Guide and Reference	ccrug00
z/OS MVS	z/OS V2R2 Data Areas Volume 6 (SJRUP -XTLST)	a3208580
z/OS MVS	z/OS V2R2 Data Areas Volume 4 (IRARMCTZ -LCT)	a3208560
z/OS MVS	z/OS V2R2 Data Areas Volume 5 (LDA -SJRSP)	a3208570
z/OS MVS	z/OS V2R2 Data Areas Volume 3 (IEFALCXT -IRARENF1)	a3208550
z/OS MVS	z/OS V2R2 Data Areas Volume 2 (DDRCOM -IEFALCXT)	a3208540
z/OS MVS	z/OS V2R2 Data Areas Volume 1 (ABEP - DCQ)	a3208530
z/OS MVS	z/OS V2R2 MVS Programming: Workload Management Services	ieaw200
z/OS MVS	z/OS V2R2 MVS Planning: Workload Management	ieaw100
z/OS MVS	z/OS V2R2 MVS Diagnosis: Reference	ieav200
z/OS MVS	z/OS V2R2 MVS Diagnosis: Tools and Service Aids	ieav100
z/OS MVS	z/OS V2R2 MVS Capacity Provisioning User's Guide	ieau100
z/OS MVS	z/OS V2R2 MVS Product Management	iear100
z/OS MVS	z/OS V2R2 MVS Programming: Resource Recovery	iean100
z/OS MVS	z/OS V2R2 MVS Programming: Product Registration	ieaq200
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 9 (IGF-IWM)	ieam900
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 10 (IXC-IZP)	ieama00
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 8 (IEF-IGD)	ieam800

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 7 (IEB-IEE)	ieam700
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 6 (GOS-IEA)	ieam600
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 5 (EDG-GFS)	ieam500
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 4 (CBD-DMO)	ieam400
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 3 (ASB-BPX)	ieam300
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 2 (ARC-ASA)	ieam200
z/OS MVS	z/OS V2R2 MVS System Messages, Vol 1 (ABA-AOM)	ieam100
z/OS MVS	z/OS V2R1 MVS Writing Servers for APPC/MVS	ieak500
z/OS MVS	z/OS V2R2 MVS JES Common Coupling Services	ieai800
z/OS MVS	z/OS V2R2 MVS Sysplex Services Reference	ieai700
z/OS MVS	z/OS V2R2 MVS System Codes	ieah700
z/OS MVS	z/OS V2R2 MVS Sysplex Services Guide	ieai600
z/OS MVS	z/OS V2R2 MVS Dump Output Messages	ieah600
z/OS MVS	z/OS V2R2 MVS Device Validation Support	ieag600
z/OS MVS	z/OS V2R2 MVS Planning: Global Resource Serialization	ieag400
z/OS MVS	z/OS V2R2 MVS Planning: Operations	ieag300
z/OS MVS	z/OS V2R2 MVS System Management Facilities (SMF)	ieag200
z/OS MVS	z/OS V2R2 MVS System Commands	ieag100
z/OS MVS	z/OS V2R2 MVS Setting Up a Sysplex	ieaf100
z/OS MVS	z/OS V2R2 MVS Using the Subsystem Interface	ieaf200
z/OS MVS	z/OS V2R2 MVS Using the Functional Subsystem Interface	ieae500
z/OS MVS	z/OS V2R2 MVS Installation Exits	ieae400
z/OS MVS	z/OS V2R2 MVS Initialization and Tuning Reference	ieae200
z/OS MVS	z/OS V2R2 MVS Initialization and Tuning Guide	ieae100
z/OS MVS	z/OS V2R1 MVS Writing Transaction Schedulers for APPC/MVS	ieac800
z/OS MVS	z/OS V2R2 MVS IPCS Customization	ieac700
z/OS MVS	z/OS V2R2 MVS IPCS User's Guide	ieac600
z/OS MVS	z/OS V2R2 MVS Planning: APPC/MVS Management	ieac400
z/OS MVS	z/OS V2R2 MVS IPCS Commands	ieac500
z/OS MVS	z/OS V2R1 MVS Writing TPs for APPC/MVS	ieac300

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS MVS	z/OS V2R2 MVS Callable Services for HLL	ieac100
z/OS MVS	z/OS V2R2 MVS JCL Reference	ieab600
z/OS MVS	z/OS V2R2 MVS JCL User's Guide	ieab500
z/OS MVS	z/OS V2R2.0 MVS Program Management: Advanced Facilities	ieab200
z/OS MVS	z/OS V2R2 MVS Program Management: User's Guide and Reference	ieab100
z/OS MVS	z/OS V2R2 MVS Authorized Assembler Services Guide	ieaa800
z/OS MVS	z/OS V2R2 MVS Assembler Services Reference IAR-XCT	ieaa900
z/OS MVS	z/OS V2R2 MVS Assembler Services Guide	ieaa600
z/OS MVS	z/OS V2R2 MVS Assembler Services Reference ABE-HSP	ieaa700
z/OS MVS	z/OS V2R2 MVS Extended Addressability Guide	ieaa500
z/OS MVS	z/OS V2R2 MVS Authorized Assembler Services Reference SET-WTO	ieaa400
z/OS MVS	z/OS V2R2 MVS Authorized Assembler Services Reference LLA-SDU	ieaa300
z/OS MVS	z/OS V2R2 MVS Authorized Assembler Services Reference EDT-IXG	ieaa200
z/OS MVS	z/OS V2R2 MVS Authorized Assembler Services Reference ALE-DYN	ieaa100
z/OS MVS	z/OS V2R2 Unicode Services User's Guide and Reference	cunu100
z/OS MVS	z/OS V2R2 XML System Services User's Guide and Reference	gxla100
z/OS MVS	z/OS V2R2 Batch Runtime Planning and User's Guide	iean500
z/OS NFS	z/OS V2R2 Network File System Guide and Reference	idan400
z/OS OpenSSH	z/OS V2R2 OpenSSH User's Guide	foto100
z/OS RMF	z/OS V2R2 RMF Programmer's Guide	erbb700
z/OS RMF	z/OS V2R2 RMF Reference Summary	erbb600
z/OS RMF	z/OS V2R2 RMF Report Analysis	erbb500
z/OS RMF	z/OS V2R2 RMF User's Guide	erbb200
z/OS RMF	z/OS V2R2 RMF Messages and Codes	erba200
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Callable Services	ichd100
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Data Areas	ichc400
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACROUTE Macro Reference	ichc600
z/OS Security Server RACF	z/OS V2R2 Security Server RACF Diagnosis Guide	ichb200
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Auditor's Guide	icha800
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Security Administrator's Guide	icha700

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Messages and Codes	icha600
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF Command Language Reference	icha400
z/OS Security Server RACF	z/OS V2R2 Security Server RACF Macros and Interfaces	icha300
z/OS Security Server RACF	z/OS V2R2.0 Security Server RACF System Programmer's Guide	icha200
z/OS Security Server RACF	z/OS V2R2 Security Server RACF General User's Guide	icha100
z/OS System-Level	z/OS Information Roadmap	e0zc100
z/OS System-Level	z/OS Introduction and Release Guide	e0za100
z/OS System-Level	z/OS Licensed Program Specifications	e0zf100
z/OS System-Level	z/OS Migration	e0zm100
z/OS System-Level	z/OS Planning for Installation	e0zb100
z/OS System-Level	z/OS Summary of Message and Interface Changes	e0zh300
z/OS System-Level	IBM Health Checker for z/OS User's Guide	e0zl100
z/OS System-Level	z/OS Problem Management	e0zk100
z/OS System-Level	ServerPac: Using the Installation Dialog	gima200
z/OS System-Level	z/OS V2R2 Planning for Sub-Capacity Pricing	e0zi100
z/OS System-Level	z/OS Planning for Multilevel Security and the Common Criteria	e0ze100
z/OS System-Level	z/OS Hot Topics Newsletter	e0zn100
z/OS System-Level	z/OS Collection	ida3900
z/OS System-Level	z/OS Font Collection	e0zx100
z/OS System-Level	z/OS V2R2 Program Directory	e0zp200
z/OS TSO/E	z/OS V2R1 TSO/E Administration	ikja100
z/OS TSO/E	z/OS V2R2 TSO/E CLISTs	ikjb800
z/OS TSO/E	z/OS V2R2 TSO/E Command Reference	ikjc500
z/OS TSO/E	z/OS V2R2 TSO/E Customization	ikjb400
z/OS TSO/E	z/OS V2R1 TSO/E General Information	ikjb300
z/OS TSO/E	z/OS V2R1 TSO/E Guide to the Server-Requester Programming Interface	ikjc100
z/OS TSO/E	z/OS V2R2 TSO/E Messages	ikjm100
z/OS TSO/E	z/OS V2R1 TSO/E Primer	ikjp100
z/OS TSO/E	z/OS V2R1 TSO/E Programming Guide	ikjb600
z/OS TSO/E	z/OS V2R2 TSO/E Programming Services	ikjb700

z/OS book identifiers by element continued

Element	Book Title	Book Identifier
z/OS TSO/E	z/OS V2R2 TSO/E REXX Reference	ikja300
z/OS TSO/E	z/OS V2R1 TSO/E REXX User's Guide	ikjc300
z/OS TSO/E	z/OS V2R2 TSO/E System Diagnosis: Data Areas	ikjd200
z/OS TSO/E	z/OS V2R2 TSO/E System Programming Command Reference	ikjc400
z/OS TSO/E	z/OS V2R1 TSO/E User's Guide	ikjc200
z/OS UNIX System Services	z/OS V2R2 Using REXX and z/OS UNIX System Services	bpxb600
z/OS UNIX System Services	z/OS V2R1 UNIX System Services Programming Tools	bpxa600
z/OS UNIX System Services	z/OS V2R1 UNIX System Services User's Guide	bpxa400
z/OS UNIX System Services	z/OS V2R2 UNIX System Services Programming: Assembler Callable Services Reference	bpxb100
z/OS UNIX System Services	z/OS V2R2 UNIX System Services Planning	bpxb200
z/OS UNIX System Services	z/OS V2R2 UNIX System Services Messages and Codes	bpxa800
z/OS UNIX System Services	z/OS V2R2 UNIX System Services File System Interface Reference	bpxb500
z/OS UNIX System Services	z/OS V2R2 UNIX System Services Command Reference	bpxa500
z/OS XL C/C++	z/OS V2R2 XL C/C++ Language Reference	cbclx01
z/OS XL C/C++	z/OS V2R2 XL C/C++ Compiler and Runtime Migration Guide for the Application Programmer	cbcmg01
z/OS XL C/C++	z/OS V2R2 XL C/C++ Programming Guide	cbcpv01
z/OS XL C/C++	z/OS V2R2 XL C/C++ User's Guide	cbcvx01
z/OS XL C/C++	z/OS V2R2 XL C/C++ Messages	cbcdg01
z/OS XL C/C++	z/OS V2R1 C Curses	bpxbb00
z/OS XL C/C++	z/OS V2R2 XL C/C++ Runtime Library Reference	bpxbd00
z/OS XL C/C++	Standard C++ Library Reference	cbcs101



Trademarks

- IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.
- Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.
- Microsoft, Windows, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.
- The YouTube logo is a trademark of Google Inc.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.
- Other company, product, or service names might be trademarks or service marks of others.

