IBM

System i

Programming
i5/OS commands
Starting with WRKFNTRSC (Work with Font Resources)

Version 6 Release 1

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> **Note**
>
> Before using this information and the product it supports, be sure to read the information in
> "Notices," on page 307.

This edition applies to version 6, release 1, modification 0 of IBM i5/OS (product number 5761-SS1) and to all
subsequent releases and modifications until otherwise indicated in new editions. This version does not run on all
reduced instruction set computer (RISC) models nor does it run on CICS models.

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Work with Font Resources (WRKFNTRSC)

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The Work with Font Resources (WRKFNTRSC) command allows you to work with all of the font resource space objects from the system or user libraries (or both).

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Parameters

Keyword	Description	Choices	Notes
FNTRSC	Font resource	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Font resource	*Generic name, name,* ***ALL**	
	Qualifier 2: Library	*Name,* ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	
OBJATR	Object attribute	***ALL**, CDEFNT, CDEPAG, FNTCHRSET	Optional, Positional 2

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Font resource (FNTRSC)

Specifies the font resource to work with. A specific font resource or a generic font resource can be specified.

This is a required parameter.

Qualifier 1: Font resource

*ALL   All font resources are to be worked with.

generic-name
> Specify the generic name of the font resources to work with. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all font resources that have names with the same prefix as the generic font resource name are worked with.

name   Specify the name of the font resource to work with.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the job is searched for font resources to work with. If no library is specified as the current library for the job, QGPL is used.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the

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libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify a library name. Only the library named in this parameter is searched for font resources to work with.

Object attribute (OBJATR)

Specifies the type of font resource whose attributes are shown.

*ALL   Font resources with all attributes are shown.

CDEFNT

A list of coded fonts is shown.

CDEPAG

A list of code pages is shown.

FNTCHRSET

A list of font character sets is shown.

Examples

Example 1: Searching for Font Resources

```
WRKFNTRSC   FNTRSC(*ALL/GOTHIC*)   FNTRSCATR(*ALL)
```

This command searches all libraries for the font resources whose first characters are 'GOTHIC'. All font resource types are shown.

Example 2: Searching for Font Resources

```
WRKFNTRSC   FNTRSC(MYLIB/GOTHIC*)   FNTRSCATR(FNTCHRSET)
```

This command searches library MYLIB for all font resources beginning with the letters 'GOTHIC'. Only font resources with attribute FNTCHRSET are shown.

Example 3: Searching for Font Resources

```
WRKFNTRSC   FNTRSC(MYLIB/CODEPG3)   FNTRSCATR(CDEPAG)
```

This command searches the library MYLIB for a font resource with the name CODEPG3 and the attribute CDEPAG.

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Error messages

*ESCAPE Messages

CPF9809
   Library &1 cannot be accessed.

CPF9810
   Library &1 not found.

CPF9820
   Not authorized to use library &1.

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Work with Form Definitions (WRKFORMDF)

The Work with Form Definitions (WRKFORMDF) command allows you to work with all of the form definition objects from the system or user libraries (or both).

Parameters

Keyword	Description	Choices	Notes
FORMDF	Form definition	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Form definition	*Generic name, name,* ***ALL**	
	Qualifier 2: Library	*Name,* ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Form definition (FORMDF)

Specifies the name and library of the form definition to work with. Only those form definitions for which the user has authority are shown.

This is a required parameter.

Qualifier 1: Form definition

*ALL   Specifies all form definitions to work with.

generic-name
> Specify the generic name of the form definitions to work with. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all form definitions that have names with the same prefix as the generic form definition name are worked with.

name   Specify the name of the form definition to work with.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the job is searched for form definitions to work with. If no library is specified as the current library for the job, QGPL is used.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB      #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify a library name. Only the library named in this parameter is searched for form definitions to work with.

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Examples

```
WRKFORMDF   FORMDF(*CURLIB/FORMDF1)
```

This command searches the current library for the form definition FORMDF1. If FORMDF1 does not exist, the WRKFORMDF panel shows a message indicating that an object matching the specified name cannot be found.

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Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

CPF9810

Library &1 not found.

Work with Filters (WRKFTR)

The Work with Filters (WRKFTR) command allows you to work with and print a list of filters, to change and delete specified filters, to work with selection and action entries contained in specified filters, and to create new filters.

Restrictions:

- Only the libraries to which you have *READ authority are searched.
- Only the filters to which you have authority are shown.
- To perform operations on the filters, you must have *USE authority to the command used by the operation, and the appropriate authority to the filters on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
FILTER	Filter	*Qualified object name*	Required, Positional 1
	Qualifier 1: Filter	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALL, *ALLUSR	

Filter (FILTER)

Specifies the qualified name of the filter that is shown.

The possible library values are:

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
The current library is searched. If no library is specified as the current library for the job, the QGPL library is used.

*USRLIBL
Only the libraries listed in the user portion of the library list are searched.

*ALL All libraries in the system, including QSYS, are searched.

*ALLUSR
All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

library-name
Specify the name of the library where the filters are located.

*ALL All filters in the specified library are listed.

filter-name
Specify the name of the filter that is shown.

generic*-filter-name
Specify the generic name of the filter. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified, then all filters with names that begin with the generic name, and for which you have authority, are shown. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete filter name.

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Examples

```
WRKFTR   FILTER(MYLIB/MY*)
```

This command shows a list of filters whose names begin with 'MY' in library MYLIB. From the list shown, you can change, delete, or work with the entries in any or all of the filters shown. You can also create a new filter.

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Error messages

*ESCAPE Messages

CPF812F
Filter damaged.

CPF91E8

  Internal processing error occurred.

CPF9802

  Not authorized to object &2 in &3.

CPF9803

  Cannot allocate object &2 in library &3.

CPF9807

  One or more libraries in library list deleted.

CPF9808

  Cannot allocate one or more libraries on library list.

CPF9830

  Cannot assign library &1.

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Work with Ftr Action Entry (WRKFTRACNE)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Filter Action Entries (WRKFTRACNE) command allows you to display, add, change, copy, print, rename, or remove action entries in a filter.

Parameters

Keyword	Description	Choices	Notes
FILTER	Filter	*Qualified object name*	Required, Positional 1
	Qualifier 1: Filter	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

Filter (FILTER)

Specifies the qualified name of the filter which contains the action entries.

The possible library values are:

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
>   The current library for the job is used to locate the filter. If no library is specified as the current library for the job, the QGPL library is used.

library-name
>   Specify the name of the library where the filter is located.

filter-name
>   Specify the name of the filter.

Examples

```
WRKFTRACNE   FILTER(MYLIB/MYFILTER)
```

This command allows you to work with the action entries in filter MYFILTER in library MYLIB.

Error messages

CPF812F

Filter damaged.

CPF91E8

Internal processing error occurred.

CPF9802

Not authorized to object &2 in &3.

CPF9803

Cannot allocate object &2 in library &3.

CPF9807

One or more libraries in library list deleted.

CPF9808

Cannot allocate one or more libraries on library list.

CPF9830

Cannot assign library &1.

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Work with Ftr Selection Entry (WRKFTRSLTE)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Filter Selection Entries (WRKFTRSLTE) command allows you to display, add, change, copy, print, remove, or move selection entries in a filter.

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Parameters

Keyword	Description	Choices	Notes
FILTER	Filter	*Qualified object name*	Required, Positional 1
	Qualifier 1: Filter	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

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Filter (FILTER)

Specifies the qualified name of the filter which contains the selection entries.

The possible library values are:

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
The current library for the job is used to locate the filter. If no library is specified as the current library for the job, the QGPL library is used.

library-name
Specify the name of the library where the filter is located.

filter-name
Specify the name of the filter.

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Examples

```
WRKFTRSLTE   FILTER(MYLIB/MYFILTER)
```

This command allows you to work with the selection entries in filter MYFILTER in library MYLIB.

Top

Error messages

*ESCAPE Messages

CPF2150
>   Object information function failed.

CPF2151
>   Operation failed for &2 in &1 type *&3.

CPF812F
>   Filter damaged.

CPF91E8
>   Internal processing error occurred.

CPF9802
>   Not authorized to object &2 in &3.

CPF9803
>   Cannot allocate object &2 in library &3.

CPF9807
>   One or more libraries in library list deleted.

CPF9808
>   Cannot allocate one or more libraries on library list.

CPF9830
>   Cannot assign library &1.

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Work with Graphics Symbol Sets (WRKGSS)

The Work with Graphics Symbol Sets (WRKGSS) command allows you to show a list of available graphics symbol sets from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the graphics symbol sets to which you have some authority will be shown on the display.
- To perform operations on the graphics symbol sets, you must have *USE authority to the command used by the operation, and the appropriate authority to the graphics symbol sets on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
GSS	Graphics symbol set	*Qualified object name*	Required, Positional 1
	Qualifier 1: Graphics symbol set	*Generic name, name, *ALL*	
	Qualifier 2: Library	*Name*, **<u>*LIBL</u>**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Graphics symbol set (GSS)

Specifies the graphics symbol sets to be shown.

This is a required parameter.

Qualifier 1: Graphics symbol set

*ALL All graphics symbol sets are shown.

generic-name
> Specify the generic name of the graphics symbol sets to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all graphics symbol sets that have names with the same prefix as the generic name are shown.

name Specify the name of the graphics symbol set to be shown.

Qualifier 2: Library

<u>*LIBL</u> All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

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*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR
> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

> 1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
> 2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

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Examples

```
WRKGSS   GSS(LIB01/ABC*)
```

This command allows you to display and work with a list of graphics symbol sets which have names that begin with 'ABC' and are stored in library LIB01.

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Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work with Hardware Products (WRKHDWPRD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Hardware Products (WRKHDWPRD) command displays a menu which allows you to display or change configuration description label locations.

There are no parameters for this command.

The menu has two options:
- Display description label locations.
- Change description label locations.

If the Display description label locations option is chosen, you can display or print a current list of the information on configuration description label locations.

If the Change description label locations option is chosen, you can change information on the configuration description label locations. You can also use this option to print the configuration description label change list work sheet.

Error messages for WRKHDWPRD

*ESCAPE Messages

SUU4074
> Internal objects not usable.

SUU4075
> Internal failure in WRKHDWPRD command.

Parameters

None

Examples

None

Error messages

*ESCAPE Messages

SUU4074
> Internal objects not usable.

SUU4075
　　　Internal failure in WRKHDWPRD command.

Work with Hardware Resources (WRKHDWRSC)

The Work with Hardware Resources (WRKHDWRSC) command allows the user to manage the hardware on the system. It allows the user to work with:

- Storage
- Processors
- Coupled adapter resource information
- Communications
- Cryptographics
- Local work stations
- Local area network (LAN) adapters

For storage, processors, communications, cryptographic and local work station you can review status and related configuration descriptions, determine which resources can be configured, and determine which devices have configuration descriptions already created.

For LAN network adapters (distributed data interface and token-ring) you can create a resource entry in the system or update the information. LAN adapter information consists of adapter name, adapter address, adapter description, and line type. If an adapter name is not specified when an adapter entry is created, the system assigns a name in the form Dnnnnnnnnn, where nnnnnnnnn is the last nine digits of the adapter address. The Work with LAN Adapters (WRKLANADPT) command allows you to update token ring adapter information for adapters reporting on a specified line.

Restrictions: The Work with LAN Adapters (WRKLANADPT) command must be run before you can run this command using TYPE(*LAN); otherwise there is no information to display.

Parameters

Keyword	Description	Choices	Notes
TYPE	Type	*CMN, *CRP, *CSA, *LAN, *LWS, *PRC, *STG	Required, Positional 1
LINETYPE	Line type	***ALL**, *DDI, *TRN	Optional

Type (TYPE)

Specifies the type of hardware resource with which you want to work.

This is a required parameter.

The possible values are:

*CMN The Work with Communication Resources display is shown.

*CRP   The Work with Cryptographic Resources display is shown.

*CSA   The Work with Coupled Adapter Resources display is shown.

*LAN   The Work with LAN Adapter Information display is shown.

*LWS   The Work with Local Work Station display is shown.

*STG   The Work with Storage Resources display is shown.

*PRC   The Work with Processor Resources display is shown.

Line type (LINETYPE)

Specifies the name of the local area network (LAN) to work with.

This parameter is required if TYPE(*LAN) was specified.

The possible values are:

*ALL   Both distributed data interface and token-ring network adapter resource information is displayed.

*DDI   All distributed data interface adapter resource information is displayed.

*TRN   All token-ring network adapter resource information is displayed.

Examples

```
WRKHDWRSC   TYPE(*CMN)
```

This command adds, changes, copies, removes, or updates the configuration objects associated with communication hardware resources. The Work with Communication Resources display shows all communication input/output processors (IOPs), input/output adapters (IOAs), and ports installed on the system.

Error messages

*ESCAPE Messages

CPF0B17
> The WRKHDWRSC command can not be run at this time.

Work with Held Optical Files (WRKHLDOPTF)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Held Optical Files (WRKHLDOPTF) command displays a list of held optical files and provides options to save, release, and display usage information about the held optical files. For more information on held optical files, refer to the Optical Support, SC41-4310 book.

Restrictions:

1. To use this command you must have *USE authority to the authorization list securing the volume associated with the held optical files.

2. To save the held file, you must have *CHANGE authority to the authorization list of the volume to which the file is saved.

Parameters

Keyword	Description	Choices	Notes
VOL	Volume identifier	*Character value*, **<u>*ALL</u>**	Optional, Positional 1

Volume identifier (VOL)

Specifies the volume identifier where the optical files were to be stored, had they not been held. This is the volume identifier that was specified when the files were opened.

<u>*ALL</u>　　All held optical files on the system for all optical volumes are listed.

volume-identifier
　　　　Specify the volume identifier of the volume that was specified when the files were opened.

generic-volume-identifier*
　　　　Specify the generic name of the volume identifier to be listed. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

Examples

WRKHLDOPTF

This command displays a list of all held optical files for all optical volumes and provides options to save, release, and display usage information about the held optical files.

Error messages

*ESCAPE Messages

OPT1234

Held file can not be saved.

OPT1239

Error saving held optical files.

OPT1342

Invalid volume identifier specified.

OPT2301

Internal system object in use.

Work with Image Catalogs (WRKIMGCLG)

The Work with Image Catalogs (WRKIMGCLG) command is used to work with the image catalogs that exist on the system. This command allows the user to specify a specific catalog name, a generic name, or *ALL. The WRKIMGCLG command allows the user to perform the following functions on the image catalogs:

Create This option allows the user to create a new image catalog.

Change
This option allows the user to change the attributes of the image catalog.

Delete This option allows the user to delete the image catalog. All image files associated with the image catalog will also be deleted.

Load This option allows the user to load the image catalog into a virtual device.

Unload
This option allows the user to unload the image catalog from the virtual device.

Verify This option allows the user to verify the image catalog for a software upgrade or PTF install.

Work with entries
This option allows the user to work with the image catalog entries in the image catalog.

Restrictions:

- The following authorities are required to view information about an image catalog:
  1. Execute (*EXECUTE) authority to library QUSRSYS.
  2. Use (*USE) authority to the image catalog.

Parameters

Keyword	Description	Choices	Notes
IMGCLG	Image catalog	*Generic name*, *name*, ***ALL**	Optional, Positional 1
TYPE	Image catalog type	***ALL**, *OPT, *TAP	Optional, Positional 2

Image catalog (IMGCLG)

Specifies the image catalogs to be shown.

This is a required parameter.

*ALL All image catalogs are shown.

generic-name

> Specify the generic name of the image catalogs to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all image catalogs that have names with the same prefix as the generic name are shown.

name   Specify the name of the image catalog to be shown.

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Image catalog type (TYPE)

Specifies the type of image catalog to work with.

*ALL   List all types of image catalogs.

*OPT   List only optical image catalogs.

*TAP   List only tape image catalogs.

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Examples

Example 1: Working with Image Catalogs by Generic Name

```
WRKIMGCLG   IMGCLG(UPGRADE*)
```

This command displays the Work with Image Catalog panel showing all image catalogs whose names begin with **UPGRADE**.

Example 2: Working with All Image Catalogs

```
WRKIMGCLG   IMGCLG(*ALL)
```

This command displays the Work with Image Catalog panel showing all image catalogs that exist.

Example 3: Working with All Tape Image Catalogs

```
WRKIMGCLG   IMGCLG(*ALL) TYPE(*TAP)
```

This command displays the Work with Image Catalog panel showing all tape image catalogs that exist.

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Error messages

*ESCAPE Messages

CPFBC45

> Image catalog &1 not found.

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Work with Catalog Entries (WRKIMGCLGE)

The Work with Image Catalog Entries (WRKIMGCLGE) command is used to work with the images in the specified image catalog. The WRKIMGCLGE command allows the user to perform the following functions on images in the image catalog:

Add   This option allows the user to add an image catalog entry to the image catalog.

Change

This option allows the user to change the attributes of an image catalog entry in the image catalog.

Remove

This option allows the user to remove an image catalog entry from the image catalog.

Mount

This option allows the user to mount an image catalog entry into the virtual device and activate it.

Load   This option allows the user to load an image catalog entry into the virtual device.

Unload

This option allows the user to unload an image catalog entry from the virtual device.

Initialize

This option allows the user to initialize the virtual volume associated with the image catalog entry.

Work with volume

This option allows the user to work with the virtual optical volume associated with the image catalog entry. This option is only valid for optical image catalogs.

Display

This option allows the user to display the virtual tape volume associated with the image catalog entry.

Duplicate

This option allows the user to duplicate the virtual tape volume associated with the image catalog entry.

Dump This option allows the user to dump the contents of the virtual tape volume associated with the image catalog entry.

Restrictions:

- The following authorities are required to view entries for the the image catalog specified:
    1. Execute (*EXECUTE) authority to library QUSRSYS.
    2. Use (*USE) authority to the image catalog.
- If a device of type 632B and model 003 is specified on the Virtual device (DEV) parameter, the subsequent Work with Catalog Entries (WRKIMGCLGE) panel will be restricted to only Mount and Work with volume functions.

Parameters

Keyword	Description	Choices	Notes
IMGCLG	Image catalog	*Name*, *DEV	Required, Positional 1
DEV	Virtual device	*Name*	Optional

Image catalog (IMGCLG)

Specify the image catalog to work with.

This is a required parameter.

*DEV   Use the virtual device specified on the Virtual device (DEV) parameter to locate the image catalog.

name   Specify the name of the image catalog.

Virtual device (DEV)

Specify the virtual device name of the image catalog to work with.

name   Specify the virtual device that contains the image catalog entries to work with.

Examples

Example 1: Working with Image Catalog Entries by Catalog Name

```
WRKIMGCLGE   IMGCLG(MYCLG)
```

This command displays the Work with Catalog Entries panel showing the entries in the image catalog **MYCLG**.

Example 2: Working with Image Catalog Entries by Device Name

```
WRKIMGCLGE   IMGCLG(*DEV)   DEV(OPTVRT01)
```

This command displays the Work with Catalog Entries panel showing the entries in the image catalog associated with virtual optical device **OPTVRT01**.

Error messages

*ESCAPE Messages

CPFBC45

Image catalog &1 not found.

CPF4F01

Device &1 not a virtual device.

CPF9802

Not authorized to object &2 in &3.

CPF9820

Not authorized to use library &1.

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Work with IPX Descriptions (WRKIPXD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

Parameters
Examples
Error messages

The Work with IPX Descriptions (WRKIPXD) command shows the Work with IPX Descriptions display, which provides an interactive interface to IPX description functions.

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Parameters

Keyword	Description	Choices	Notes
IPXD	IPX description	*Generic name, name*, **_*ALL_**	Optional, Positional 1

Top

IPX description (IPXD)

Specifies the IPX descriptions that you want to work with.

*ALL   All IPX descriptions are listed.

IPX-description-name
> Specify the name of the IPX description that you want to work with.

generic-IPX-description-name*
> Specify the generic name of the IPX description. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

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Examples

```
WRKIPXD   IPXD(IPXDESC)
```

This command shows the Work with IPX Descriptions display with an entry for IPX description IPXDESC. If IPXDESC does not exist, no entries are displayed.

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Error messages

None

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Work with Job (WRKJOB)

The Work with Job (WRKJOB) command allows you to work with or change the following information concerning a user job:

- Job status attributes
- Job definition attributes
- Job run attributes
- Spooled file information
- Job log information
- Call stack information
- Job lock information
- Library list information
- Open file information
- File override information
- Commitment control status
- Communications status
- Activation group information
- Mutex information
- Thread information
- Media library attribute information

The information for the following options can be shown only when the job is active: job run attributes, call stack information, job lock information, library list information, job log information, open file information, file override information, commitment control status, communications status, activation group information, mutex information, and thread information.

The following options can be found regardless of whether the user's job is on the job queue, on an output queue, or active in the system: job status attributes, job definition attributes, and spooled file information. Note, however, that the job is not considered to be in the system until all of its input has been completely read in; only then is an entry placed on the job queue.

Restrictions:

1. The issuer of the command must be running under a user profile which is the same as the job user identity of the job being worked with, or the issuer of the command must be running under a user profile which has job control (*JOBCTL) special authority.

   The job user identity is the name of the user profile by which a job is known to other jobs. More information about the job user identity is in the Work management topic collection in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/.

2. Activation group information for a job cannot be shown if the job is being held when this command is run.

3. This command fails in a job that allows multiple threads if OPTION(*FILOVR) or OPTION(*ALL) is specified.

Parameters

Keyword	Description	Choices	Notes
JOB	Job name	Single values: * Other values: *Qualified job name*	Optional, Positional 1
	Qualifier 1: Job name	*Name*	
	Qualifier 2: User	*Name*	
	Qualifier 3: Number	000000-999999	
OUTPUT	Output	*, *PRINT	Optional, Positional 2
OPTION	Option	***SELECT**, *STSA, *DFNA, *RUNA, *SPLF, *JOBLOG, *PGMSTK, *JOBLCK, *LIBL, *OPNF, *FILOVR, *CMTCTL, *CMNSTS, *ACTGRP, *MUTEX, *THREAD, *MLBA, *ALL	Optional
DUPJOBOPT	Duplicate job option	***SELECT**, *MSG	Optional

Job name (JOB)

Specifies the name of the user job whose information is being worked with.

Single values

*   The job whose information is displayed is the job from which this display command is run.

Qualifier 1: Job name

name   Specify the name of the job to be displayed. If no job qualifier is given, all of the jobs currently in the system are searched for the simple job name. If duplicates of the specified name are found, a list of messages containing the qualified job names of all duplicates is displayed.

Qualifier 2: User

name   Specify the name that identifies the user profile under which the job is run.

Qualifier 3: Number

000000-999999
     Specify the job number assigned by the system.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
     The output is printed with the job's spooled output.

Option (OPTION)

Specifies which information is being worked with.

*SELECT
> The menu is shown and all options and function keys are available.

*STSA
> The identifying characteristics and the status of the job are shown.

*DFNA
> The definition attributes in the job description associated with the job are shown.

*RUNA
> The run attributes for the job are shown.

*SPLF The spooled files owned by the job are shown. Only those spooled output files which are on output queues in the library name space of the thread issuing this command will be shown.

*JOBLOG
> The commands processed by the job and the messages returned from running those commands are shown.

*PGMSTK
> All information for all programs in the call stack is shown.

*JOBLCK
> All external object locks held by the job, including held locks and lock that are being waited for, are shown.

*LIBL The library list for the thread is shown if the job specified for the **Job name (JOB)** parameter is the job from which the command is run. For other jobs, the library list of the initial thread is shown.

*OPNF
> Files that are open for the job and the status of system and user files are shown.

*FILOVR
> File overrides at any active call level for the job are shown.

*CMTCTL
> The commitment control status of the job is shown.

*CMNSTS
> The communications status of the job is shown.

*ACTGRP
> The activation groups associated with the job are shown.

*MUTEX
> The mutex information associated with the initial thread of the job is shown.

*THREAD
> Information about the job's threads is displayed.

*MLBA
> Information about the job's media library attributes is displayed.

*ALL All options are shown.

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Duplicate job option (DUPJOBOPT)

Specifies the action taken when duplicate jobs are found by this command.

*SELECT

The selection display is shown when duplicate jobs are found during an interactive session. Otherwise, a message is issued.

*MSG   A message is issued when duplicate jobs are found.

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Examples

Example 1: Printing the Job's Information

```
WRKJOB   JOB(SMITH/PAYROLL)  OUTPUT(*PRINT)
```

This command prints information for the job named PAYROLL submitted by the user named SMITH to the job's output spooling queue.

Example 2: Working with the Current Job's Spooled Output

```
WRKJOB   OPTION(*SPLF)
```

This command allows you to work with the spooled output for the current job.

Example 3: Working with All of the Current Job's Information

```
WRKJOB   OPTION(*ALL)
```

This command allows you to work with all of the information for the current job.

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Error messages

*ESCAPE Messages

CPF0941

Job &3/&2/&1 no longer in system.

CPF1069

End of duplicate names.

CPF1070

Job &3/&2/&1 not found.

CPF1071

No authority to job &3/&2/&1.

CPF2443

Job log not displayed or listed because job has ended.

CPF3330

Necessary resource not available.

CPF3336

Job &5/&4/&3 no longer in the system.

CPF9845

Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9847

Error occurred while closing file &1 in library &2.

CPF9850

Override of printer file &1 not allowed.

CPF9851

Overflow value for file &1 in &2 too small.

CPF9871

Error occurred while processing.

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Work with Job Descriptions (WRKJOBD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Job Descriptions (WRKJOBD) command shows a list of job descriptions and allows you to change, copy, delete, and display specified job descriptions.

Restrictions:
- Only the libraries to which you have use (*USE) authority will be searched.
- Only the job descriptions tables to which you have some authority will be shown on the display.
- You must have object operational (*OBJOPR) authority to the job description and *USE authority to the library in which the job description is located.

Parameters

Keyword	Description	Choices	Notes
JOBD	Job description	*Qualified object name*	Required, Positional 1
	Qualifier 1: Job description	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Job description (JOBD)

Specifies the job descriptions to be shown on the Work with Job Descriptions display.

This is a required parameter.

Qualifier 1: Job description

*ALL   All job descriptions are shown.

generic-name
> Specify the generic name of the job descriptions to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all job descriptions that have names with the same prefix as the generic name are shown.

name   Specify the name of the job description to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL All libraries in the system, including QSYS, are searched.

name Specify the name of the library to be searched.

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Examples

```
WRKJOBD    JOBD(MYLIB/SPEC*)
```

This command shows a list of job descriptions whose names begin with 'SPEC' and are stored in library MYLIB. Options may be selected from this panel to work with the job descriptions that are listed.

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Error messages

*ESCAPE Messages

CPF9809

> Library &1 cannot be accessed.

Work with Job Logs (WRKJOBLOG)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Job Logs (WRKJOBLOG) command displays a list of job logs that match the specified selection criteria.

Usage notes:

- Pending job logs may change to spooled job logs while the Work with Job Logs panel is shown.

Parameters

Keyword	Description	Choices	Notes
JOBLOGSTT	Job log state	Values (up to 2 repetitions): ***PENDING**, *SPOOLED	Optional, Positional 1
PERIOD	Time period	*Element list*	Optional
	Element 1: Start time and date	*Element list*	
	Element 1: Beginning time	*Time*, ***AVAIL**	
	Element 2: Beginning date	*Date*, ***CURRENT**, *BEGIN	
	Element 2: End time and date	*Element list*	
	Element 1: Ending time	*Time*, ***AVAIL**	
	Element 2: Ending date	*Date*, ***CURRENT**, *END	
JOB	Job name	*Qualified job name*	Optional
	Qualifier 1: Job name	*Generic name, name*, ***ALL**	
	Qualifier 2: User	*Generic name, name*, ***ALL**	
	Qualifier 3: Number	000000-999999, ***ALL**	

Job log state (JOBLOGSTT)

Specifies the state of the job log for selecting which job logs are shown. A maximum of two values can be specified for this parameter.

*PENDING

Job logs for all completed jobs that have a pending job log and that meet the other selection criteria are included in the list.

*SPOOLED

Job log spooled files that meet the other selection criteria are included in the list. This includes job logs that have been detached from the job.

Time period (PERIOD)

Specifies the period of time for selecting which job logs are shown. For pending job logs and spooled job logs which are associated with a job, this is the completion time of the job. For spooled job logs that are detached from the job, this is the creation date and time of the QPJOBLOG spooled file. This parameter contains two element lists of two elements each. A value or *N must be specified for an element if a subsequent element value will be specified in order to maintain its position in the parameter value sequence.

Element 1: Start time and date

Element 1: Starting time

One of the following is used to specify the starting time at which or after which the job completed or the spooled file was created. Job logs for jobs that ended before the specified time and date are not shown. Detached job logs that were created before the specified time and date are not shown.

*AVAIL

Any job logs that are available for the specified starting date are shown.

start-time

Specify the starting time for the specified starting date. The time is specified in 24-hour format and can be specified with or without a time separator:

- Without a time separator, specify a string of 4 or 6 digits (**hhmm** or **hhmmss**) where **hh** = hours, **mm** = minutes, and **ss** = seconds. Hours, minutes, and seconds must each be exactly 2 digits. Use leading zeros if necessary. Valid values for **hh** range from 00 through 23. Valid values for **mm** and **ss** range from 00 through 59.
- With a time separator, specify a string of 5 or 8 digits and characters where the time separator specified for your job is used to separate the hours, minutes, and seconds. If you enter this command from the command line, the string must be enclosed in apostrophes. If a time separator other than the separator specified for your job is used, this command will fail.

Element 2: Starting date

One of the following is used to specify the starting date on which or after which the job completed or the spooled file was created. Job logs for jobs that ended before the specified time and date are not shown. Detached job logs that were created before the specified time and date are not shown.

*CURRENT

The current day is used as the starting date.

*BEGIN

Any job logs that meet the other selection criteria are shown. When *BEGIN is specified for the starting date, a starting time value other than *AVAIL is ignored.

start-date

Specify the starting date with or without date separators. The date must be entered in the date format that this job uses, as specified in the date format job attribute. If date separators are used then they need to be the same as the date separator that this job uses, as specified in the date separator job attribute. If you enter this command from the command line, the starting date string must be enclosed in apostrophes if it contains separators. If a date separator other than the separator specified for your job is used, this command will fail.

Element 2: End time and date

Element 1: Ending time

One of the following is used to specify the ending time before which the job completed or the spooled file was created. Job logs for jobs that ended after the specified time and date are not shown. Detached job logs that were created after the specified time and date are not shown.

*AVAIL
Any job logs that are available for the specified ending date are shown.

end-time
Specify the ending time for the specified ending date. See **start-time** for the formats in which time can be entered.

Element 2: Ending date

One of the following is used to specify the ending date before which the job completed or the spooled file was created. Job logs for jobs that ended after the specified time and date are not shown. Detached job logs that were created after the specified time and date are not shown.

*CURRENT
The current day is used as the ending date.

*END The last day on which jobs completed or spooled job logs were created is used as the end date. If *END is specified, an ending time value other than *AVAIL is ignored.

end-date
Specify the ending date with or without date separators. The date must be entered in the date format that this job uses, as specified in the date format job attribute. If date separators are used then they need to be the same as the date separator that this job uses, as specified in the date separator job attribute. If you enter this command from the command line, the ending date string must be enclosed in apostrophes if it contains separators. If a date separator other than the separator specified for your job is used, this command will fail.

Job name (JOB)

Specifies the qualified job names of jobs whose job logs are to be included in the list.

Qualifier 1: Job name

*ALL Job logs for all job names with the specified job user name and job number are included.

generic-name
Specify the generic name of the jobs whose job logs are to be included. A generic name is a character string of one or more characters followed by an asterisk (*). If a generic name is specified, all job logs for jobs with job names that have the same prefix as the generic name are included.

name Specify the name of the job whose job logs are included.

Qualifier 2: User

*ALL   Job logs for all job user names with the specified job name and job number are included.

generic-name
>   Specify the generic user name of the jobs whose job logs are included. A generic name is a character string of one or more characters followed by an asterisk (*). If a generic name is specified, all job logs for jobs with user names that have the same prefix as the generic name are included.

name   Specify the user name of the job whose job logs are included.

Qualifier 3: Number

*ALL   Job logs for all job numbers with the specified job name and job user name are included.

000000-999999
>   Specify the job number of the job whose job logs are included.

Examples

Example 1: Showing All Pending Job Logs

WRKJOBLOG

This command displays the Work with Job Logs panel, showing a list of all pending job logs for jobs that ended on today's date.

Example 2: Showing All Spooled Job Logs With a Generic Job

WRKJOBLOG   JOBLOGSTT(*SPOOLED) JOB(*ALL/*ALL/QPADEV*)

This command displays the Work with Job Logs panel, showing a list of all spooled job logs created on today's date for all jobs whose simple job name starts with 'QPADEV'.

Example 3: Showing All Pending and Spooled Job Logs For a Specified Period

WRKJOBLOG   JOBLOGSTT(*PENDING *SPOOLED)
             PERIOD((*AVAIL 11212005) (*AVAIL 11252005))

This command displays the Work with Job Logs panel, showing a list of all pending job logs for jobs that ended during the specified 5 day period, and all spooled job logs that were created during the specified 5 day period.

Error messages

*ESCAPE Messages

CPF9871
>   Error occurred while processing.

Work with Job Queue (WRKJOBQ)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Job Queues (WRKJOBQ) command shows the overall status of all job queues or the detailed status of a specific job queue. Also, this command allows the user to work with the overall status of all job queues that match the qualified generic name specified. The status of the queues may change while the command is being run.

Parameters

Keyword	Description	Choices	Notes
JOBQ	Job queue	Single values: ***ALL** Other values: *Qualified object name*	Optional, Positional 1
	Qualifier 1: Job queue	*Generic name, name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *ALL	
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Job queue (JOBQ)

Specifies that all job queues are to be displayed, or specifies the job queue whose status is to be displayed.

Note: When a generic job queue name is specified and qualified with a library name, the overall status of all the job queues that match the generic name is shown even if there is only one job queue that matches the generic name.

Single values

*ALL Status of all job queues is displayed with information about each job queue. If *ALL is specified, no value can be specified for a library name because *ALL provides a list of all job queues in every library on the system.

Qualifier 1: Job queue

generic-name
Specify the generic name of the job queues for which detailed status information are displayed. A list of all jobs on the job queue is displayed with information about each job.

name Specify the name of the job queue for which detailed status information is displayed. A list of all jobs on the job queue is displayed with information about each job.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*ALL All libraries in the system, including QSYS, are searched.

> **Note:** When *ALL is specified for the library, the overall status of the job queues is shown even if only one job queue is found.

name Specify the name of the library where the job queue is located.

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Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* If the request is made by a work station user, the output is displayed. If the request is from a batch job, the output is printed.

*PRINT
> The output is printed with the job's spooled output.

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Examples

Example 1: Displaying Status Information of a Specific Job Queue

```
WRKJOBQ    JOBQ(QGPL/QBATCH)
```

This command shows the detailed status information about the job queue named QBATCH in the QGPL library. Each job on the QBATCH job queue is identified by job name, user name, and job number; the job's priority and status are also shown.

Example 2: Searching for Job Queues Using a Generic Name

```
WRKJOBQ    JOBQ(QGPL/QBAT*)
```

This command allows the user to show and work with the overall status information of the job queues whose names start with 'QBAT' and exist in the QGPL library.

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Error messages

*ESCAPE Messages

CPF2207
> Not authorized to use object &1 in library &3 type *&2.

CPF3302
> Override of print file &1 to file &2 not valid.

CPF3307

> Job queue &1 in &2 not found.

CPF3330

> Necessary resource not available.

CPF7D41

> Error occurred while logging order assistance request.

CPF7D42

> Error occurred while performing database operation.

CPF9845

> Error occurred while opening file &1.

CPF9846

> Error while processing file &1 in library &2.

CPF9871

> Error occurred while processing.

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Work with Job Queue Desc (WRKJOBQD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IMOD *IREXX *EXEC)
Threadsafe: No

The Work with Job Queue Description (WRKJOBQD) command shows the description of the specified job queue. The description of the queue may change while the command is being run.

Parameters

Keyword	Description	Choices	Notes
JOBQ	Job queue	*Qualified object name*	Required, Positional 1
	Qualifier 1: Job queue	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

Job queue (JOBQ)

Specifies the job queue whose description is to be displayed.

This is a required parameter.

Qualifier 1: Job queue

name   Specify the name of the job queue whose description is displayed.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
       The current library for the job is used to locate the job queue.

name   Specify the name of the library where the job queue is located.

Examples

```
WRKJOBQD   JOBQ(QGPL/QBATCH)
```

This command displays the Work with Job Queue Description panel for the job queue named QBATCH which is in the QGPL library.

Error messages

*ESCAPE Messages

CPF2150

Object information function failed.

CPF2151

Operation failed for &2 in &1 type *&3.

CPF2207

Not authorized to use object &1 in library &3 type *&2.

CPF3302

Override of print file &1 to file &2 not valid.

CPF3330

Necessary resource not available.

CPF3307

Job queue &1 in &2 not found.

CPF7D41

Error occurred while logging order assistance request.

CPF7D42

Error occurred while performing database operation.

CPF9845

Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9871

Error occurred while processing.

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Work with Job Schedule Entries (WRKJOBSCDE)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Job Schedule Entries (WRKJOBSCDE) command allows you to work with an entry, entries, or generic entries in the job schedule. Each job schedule entry contains the information needed to automatically submit a batch job once or at regularly scheduled intervals.

This command shows the Work with Job Schedule Entries display. From the display, you can select options to add, change, remove, hold, or release entries. You can display details of an entry, or work with the last job submitted for an entry. You can also select an option to immediately submit a job using the information contained in the job schedule entry.

Restrictions:

1. To use this command, you must have:
   - Use (*USE) authority to object QDFTJOBSCD, type *JOBSCD, in library QUSRSYS and execute (*EXECUTE) authority to library QUSRSYS.

Parameters

Keyword	Description	Choices	Notes
JOB	Job name	*Generic name, name*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional
PRTFMT	Print format	***BASIC**, *FULL	Optional
SEQ	Sequence	***JOB**, *DATETIME, *JOBQ	Optional
SCDBY	Scheduled by user	*Name*, ***ALL**	Optional
SBMDATE	Submit date	*Date*, ***ALL**, *CURRENT	Optional
JOBQ	Job queue	Single values: ***ALL** Other values: *Qualified object name*	Optional
	Qualifier 1: Job queue	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

Job name (JOB)

Specifies the job name of the job schedule entries with which you want to work.

*ALL   All job schedule entries matching this command's other parameter values are shown on the display.

generic-name

Specify the generic name of the job schedule entry. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified,

then all entries with job names that begin with the generic name are displayed. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete job name.

name   Specify the name of the job schedule entry you want to display.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
The output is printed with the job's spooled output.

Print format (PRTFMT)

Specifies the format used for the printed output.

*BASIC
The entries are printed in an abbreviated list format.

*FULL The details of each entry are printed in an expanded format.

Sequence (SEQ)

Specifies the order in which the selected entries are shown.

*JOB   Entries are shown in alphabetical order by job name. Within a job name the entries are ordered by entry number from lowest to highest.

*DATETIME
Entries are ordered by the date and time at which their jobs are scheduled to be submitted, with the earliest entries shown first. Entries that do not have a job scheduled to be submitted are shown last.

*JOBQ
The entries are grouped under the name of the job queue to which their jobs are submitted. The job queues are shown in alphabetical order. Within a job queue, entries are shown in alphabetical order.

Scheduled by user (SCDBY)

Specifies the name of the user who added the entry to be shown.

*ALL   Entries added by all users are shown.

name   Specify the name of the user who added the entries to be shown.

Submit date (SBMDATE)

Specifies the date on which the entries to be shown submit jobs to run.

*ALL   All job schedule entries are shown, regardless of the date on which the entries are to submit a job to run.

*CURRENT
> The entries scheduled to submit jobs on the current date are shown.

date   Specify the submit date for the entries to be shown.

Job queue (JOBQ)

Specifies the name of the job queue to which the jobs are submitted. This parameter is used to display all entries that submit jobs to a specified job queue.

Single values

*ALL   All entries are shown, regardless of the job queues.

Qualifier 1: Job queue

name   Specify the name of the job queue.

Qualifier 2: Library

*LIBL   All libraries in the thread's library list are searched until a match is found.

*CURLIB
> The current library for the thread is used to locate the object. If no library is specified as the current library for the thread, the QGPL library is used.

name   Specify the library where the job queue is located.

Examples

```
WRKJOBSCDE   JOBQ(QGPL/QBATCH)
```

This command shows all the job schedule entries that submit a job to the job queue QBATCH in library QGPL.

Error messages

*ESCAPE Messages

CPF1628
> Job schedule entry &3 number &4 not found.

CPF1629

   Not authorized to job schedule &1.

CPF1630

   Not authorized to job schedule entry &3 number &4.

CPF1632

   Job schedule entry &3 number &4 damaged.

CPF1637

   Job schedule &1 in library &2 in use.

CPF1638

   Job schedule entry &3 number &4 in use.

CPF1640

   Job schedule &1 in library &2 does not exist.

CPF1641

   Job schedule &1 in library &2 damaged.

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Work with Journal (WRKJRN)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

Parameters
Examples
Error messages

The Work with Journals (WRKJRN) command shows you a menu from which options for journal operations can be selected. From the primary menu, options can be selected to:

- Display the status of the journal
- Perform forward or back-out object recovery
- Recover damaged journals and journal receivers
- Associate journal receivers with a journal.

All of these options are supported for local journals. For remote journals, only the associate journal receivers option is supported.

See the Journal management topic collection in the i5/OS Information Center at http://www.ibm.com/ systems/i/infocenter/ for details on the specific options.

If forward or back-out recovery needs to be performed for a large number of objects, you should consider using the Apply Journaled Changes (APYJRNCHG) or the Remove Journaled Changes (RMVJRNCHG) command. These commands allow you to specify groups of objects such as all objects in a library, all objects in multiple libraries, all objects journaled to the journal, or all objects in a directory subtree.

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Parameters

Keyword	Description	Choices	Notes
JRN	Journal	Single values: ***PROMPT** Other values: *Qualified object name*	Optional, Positional 1
	Qualifier 1: Journal	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, *ALL, *CURLIB, ***LIBL**	

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Journal (JRN)

Specifies the journals to be shown on the Work with Journals display.

Single values

*PROMPT
      The Specify Journal Name display will be shown to allow for journal selection prior to displaying the Work with Journals display.

Qualifier 1: Journal

*ALL   All journals in the specified library will be shown.

generic-name
> Specify the generic name of the journal to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all journals that have names with the same prefix as the generic name are shown.

name   Specify the name of the journal to be shown.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched. All journals in these libraries with the specified journal name are shown.

*ALL   All libraries on the system, including QSYS, and all libraries on any independent auxiliary storage pool (IASP) associated with the job, are searched.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

name   Specify the name of the library to be searched.

Examples

Example 1: Show Specify Journal Name Panel

```
WRKJRN
```

This command displays the Specify Journal Name panel. Once a journal name and library are specified, the Work with Journals panel is shown.

Example 2: Show Journals That Match Generic Name

```
WRKJRN   JRN(*LIBL/ABC*)
```

This command displays the Work with Journals panel and includes all journals whose names begin with 'ABC' and are found in libraries within the library list.

Error messages

*ESCAPE Messages

CPF9801
> Object &2 in library &3 not found.

CPF9802
> Not authorized to object &2 in &3.

CPF9809
> Library &1 cannot be accessed.

CPF9810
> Library &1 not found.

CPF9820

Not authorized to use library &1.

CPF9825

Not authorized to device &1.

CPF9871

Error occurred while processing.

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Work with Journal Attributes (WRKJRNA)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Journal Attributes (WRKJRNA) command displays or prints the creation and operational attributes of a journal, including the name of the journal receiver currently attached to the journal. From the primary display, options or functions can be selected to display the names of all objects currently journaled to the journal, the names of all remote journals currently associated with this journal and detailed information about a remote journal, the receiver directory, or detailed information about a journal receiver; or to delete receivers from the receiver directory.

The command can also be used to generate an output file that lists journaled objects.

If output is printed with the job's spooled printer output with DETAIL(*OUTPUT) specified, all of the information that is optionally displayed is printed except:

- Detailed information about journal receivers; for that information, use the Display Journal Receiver Attributes (DSPJRNRCVA) command.
- Detailed information about the relational database directory entries associated with any remote journals.

When OUTPUT(*PRINT) is chosen, the DETAIL parameter can be used to subset the information printed. Specifying one or more of the values of *CURATR, *RCVDIR, *RMTJRN, *JRNFILE, *JRNAP, *JRNDTAQ, *JRNDTAARA, *JRNLIB, and *JRNIFS is allowed.

If output is directed to an output file, then only the journaled object information is written to the output file. When OUTPUT(*OUTFILE) is chosen, the DETAIL parameter can be used to subset the information sent to the output file. Specifying one or more of the values of *JRNFILE, *JRNAP, *JRNDTAQ, *JRNDTAARA, *JRNIFS, *JRNLIB, and *IMPLICIT is allowed.

Parameters

Keyword	Description	Choices	Notes
JRN	Journal	Single values: *INTSYSJRN Other values: *Qualified object name*	Required, Positional 1
	Qualifier 1: Journal	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
OUTPUT	Output	*****, *PRINT, *OUTFILE	Optional, Positional 2
DETAIL	Detail	Single values: ***OUTPUT** Other values (up to 9 repetitions): *CURATR, *RCVDIR, *RMTJRN, *JRNFILE, *JRNAP, *JRNDTAARA, *JRNDTAQ, *JRNIFS, *JRNLIB, *IMPLICIT	Optional
OUTFILE	File to receive output	*Qualified object name*	Optional
	Qualifier 1: File to receive output	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

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Keyword	Description	Choices	Notes
OUTMBR	Output member options	*Element list*	Optional
	Element 1: Member to receive output	*Name*, ***FIRST**	
	Element 2: Replace or add records	***REPLACE**, *ADD	
JRNID	Journal identification number	*Character value*	Optional
ASPDEV	ASP device	*Name*, *****	Optional

Journal (JRN)

Specifies the journal whose attributes are to be displayed.

This is a required parameter.

Single values

*INTSYSJRN

> The internal system journal associated with the journal specified on the JRNID parameter is used. Internal system journals are not stored in libraries.

> **Note:** You must have all object (*ALLOBJ) special authority to specify JRN(*INTSYSJRN).

> **Note:** If the *INTSYSJRN value is specified, then OUTPUT(*OUTFILE) can not be specified and DETAIL(*OUTPUT) must be specified.

> **Note:** If the *INTSYSJRN value is specified, the OUTFILE and DETAIL parameters cannot be specified.

Qualifier 1: Journal

name Specify the name of the journal.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB

> The current library for the job is searched. If no library is specified as the current library for the job, QGPL is used.

library-name

> Specify the name of the library to be searched.

Output (OUTPUT)

Specifies where the output from the command is sent.

* The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT

> The output is printed with the job's spooled output.

*OUTFILE
>   The output is directed to the database file specified for the **File to receive output (OUTFILE)** parameter.

Note: File QPDSPJNA is used for printed output. File QAWRKJRNA is the model output file. The format name is QJOWRKJRNA.

Detail (DETAIL)

Specifies the type of information that is directed to the printer file or output file.

Single values

*OUTPUT
>   The information sent to the printer file or output file will depend on what value was specified on the OUTPUT parameter. When *OUTPUT is selected, then the DETAIL parameter may not have any other values.
>
>   If OUTPUT(*PRINT) was selected, then DETAIL(*OUTPUT) will have the same meaning as selecting all of the following parameter values for DETAIL: *CURATR, *RCVDIR, *RMTJRN, *JRNFILE, *JRNAP, *JRNDTAQ, *JRNDTAARA, *JRNLIB, and *JRNIFS.
>
>   If OUTPUT(*OUTFILE) was selected, then DETAIL(*OUTPUT) will have the same meaning as selecting all of the following parameter values for DETAIL: *JRNFILE, *JRNAP, *JRNDTAQ, *JRNDTARA, *JRNLIB, and *JRNIFS.

Other values (up to 9 repetitions)

*CURATR
>   The printer file will contain the creation and operational attributes of the journal. This value is not valid with OUTPUT(*OUTFILE).

*RCVDIR
>   The printer file will contain the names of the journal receivers currently associated with the journal. This entry will also contain some attribute information about the journal receiver. This value is not valid with OUTPUT(*OUTFILE).

*RMTJRN
>   The printer file will contain the current remote journal related attributes of this journal and information about the remote journal(s) that are currently associated with this journal. This value is not valid with OUTPUT(*OUTFILE).

*JRNFILE
>   The printer file or output file will contain the list of the physical and logical file names and the library names of the files for all files being journaled. Additionally, the printer file will have a count of files and a count of members journaled to this journal.

*JRNAP
>   The printer file or output file will contain the list of the file names and the library names of the files for all access paths being journaled. Additionally, the printer file will have a count of files and a count of access paths journaled to this journal.

*JRNDTAARA
>   The printer file or output file will contain the list of data area names and the library names of the data areas for all data areas being journaled. Additionally, the printer file will have a count of data areas journaled to this journal.

*JRNDTAQ

The printer file or output file will contain the list of the data queue names and the library names of the data queues for all data queues being journaled. Additionally, the printer file will have a count of data queues journaled to this journal.

*JRNIFS

The printer file or output file will contain the list of the integrated file system objects for all integrated file system objects being journaled. Additionally, the printer file will have a count of integrated file system objects journaled to this journal.

*JRNLIB

The printer file or output file will contain the list of the library names for all the libraries being journaled. Additionally, the printer file will have a count of libraries journaled to this journal.

*IMPLICIT

The output file will contain the list of all objects implicitly journaled to the journal. This will contain objects such as journal receivers, commit definitions, and objects needed for system recovery purposes. This value is not valid with OUTPUT(*PRINT).

Note: This value must be specified on the DETAIL parameter to get this information.

File to receive output (OUTFILE)

Specifies the database file to which the output of the command is directed. If the file does not exist, this command creates a database file in the specified library. If the file is created, the public authority for the file is the same as the create authority specified for the library in which the file is created. Use the Display Library Description (DSPLIBD) command to show the library's create authority.

Qualifier 1: File to receive output

name   Specify the name of the database file to which the command output is directed.

Qualifier 2: Library

*LIBL   The library list is used to locate the file. If the file is not found, one is created in the current library. If no current library exists, the file will be created in the QGPL library.

*CURLIB

The current library for the thread is used to locate the file. If no library is specified as the current library for the thread, the QGPL library is used.

name   Specify the name of the library to be searched.

Note: If a new file is created, the system uses QAWRKJRNA in QSYS with the format name QJOWRKJRNA as a model.

Member to receive output (OUTMBR)

Specifies the name of the database file member that receives the output of the command.

Element 1: Member to receive output

*FIRST

The first member in the file receives the output. If OUTMBR(*FIRST) is specified and the member does not exist, the system creates a member with the name of the file specified for the **File to**

receive output (OUTFILE) parameter. If the member already exists, you have the option to add new records to the end of the existing member or clear the member and then add the new records.

name   Specify the name of the file member that receives the output. If it does not exist, the system creates it.

Element 2: Replace or add records

*REPLACE
         The system clears the existing member and adds the new records.

*ADD   The system adds the new records to the end of the existing records.

Journal identification number (JRNID)

Specifies the five-character journal identification number (ID) of the internal system journal (*INTSYSJRN) to be displayed. Journal IDs are assigned by the system. The first two characters represent the journal type, and the last three characters are the auxiliary storage pool (ASP) identifier.

Note: The JRNID parameter can be specified only if JRN(*INTSYSJRN) is specified.

Following is a listing of journal types:

Journal Types

10   System-managed access-path protection (SMAPP)

20   Directory

30   Spool

ASP device (ASPDEV)

Specifies the auxiliary storage pool (ASP) device where the journal is located.

*   The ASPs that are currently part of the thread's library name space will be searched to find the library. This includes the system ASP (ASP 1), all defined basic user ASPs (ASPs 2-32), and, if the thread has an ASP group, all primary and secondary ASPs in the ASP group.

name   Specify the name of the primary or secondary ASP device to be searched to find the library. The primary or secondary ASP must have been activated (by varying on the ASP device) and have a status of Available'. The system ASP (ASP 1) and defined basic user ASPs (ASPs 2-32) will not be searched.

         Note: To specify a specific auxiliary storage pool (ASP) device name, you must have use (*USE) authority for each ASP device in the ASP group.

Examples

Example 1: Simple Command Example

```
WRKJRNA   JRN(MYLIB/JRNLA)
```

This command allows you to work with the current journal attributes of JRNLA in library MYLIB.

Example 2: More Complex Commands for *PRINT

```
WRKJRNA   JRN(YOURLIB2/JRNLB) OUTPUT(*PRINT)
          DETAIL(*OUTPUT)
WRKJRNA   JRN(YOURLIB2/JRNLB) OUTPUT(*PRINT)
          DETAIL(*CURATR *RCVDIR *JRNFILE *JRNAP
                 *JRNDTAQ *JRNDTAARA *JRNIFS *RMTJRN)
```

These two commands print information related to the journal JRNLB in library YOURLIB2. Specifically they will print journal attribute information, information about the receivers associated with the journal, remote journal information, a list of files being journaled, a list of access paths being journaled, a list of data queues being journaled, a list of data areas being journaled and a list of integrated file system objects being journaled.

Example 3: More Complex Commands for *OUTFILE

```
WRKJRNA   JRN(YOURLIB3/JRNLC) OUTPUT(*OUTFILE)
          OUTFILE(YOURLIB3/MYOUTFILE)
          DETAIL(*OUTPUT)
WRKJRNA   JRN(YOURLIB3/JRNLC) OUTPUT(*OUTFILE)
          OUTFILE(YOURLIB3/MYOUTFILE)
          DETAIL(*JRNFILE *JRNAP *JRNDTAQ
                 *JRNDTAARA *JRNIFS)
```

These two commands create an output file named MYOUTFILE in library YOURLIB3 that contains information related to the journal JRNLC in library YOURLIB3. Specifically the information written to the output file includes a list of files being journaled, a list of access paths being journaled, a list of data queues being journaled, a list of data areas being journaled and a list of integrated file system objects being journaled.

Example 4: Selecting Specific Information to Print

```
WRKJRNA   JRN(YOURLIB4/JRNLD) OUTPUT(*PRINT)
          DETAIL(*CURATR *JRNFILE)
```

This command prints information related to the journal JRNLD in library YOURLIB4. The information will be a subset of information about the journal. Specifically the information will be the journal attributes and a list of files being journaled.

Example 5: Selecting Specific Information to Output to a File

```
WRKJRNA   JRN(YOURLIB5/JRNLE) OUTPUT(*OUTFILE)
          OUTFILE(YOURLIB5/MYOUTFILE)
          DETAIL(*JRNFILE *JRNDTAARA *IMPLICIT)
```

This command creates an output file named MYOUTFILE in library YOURLIB5 that contains information related to the journal JRNLE in library YOURLIB5. The information will be a subset of information about the journal. Specifically the information about journaled files, journaled data areas and objects being implicitly journaled to this journal.

Error messages

ESCAPE Messages

CPF69A7
DETAIL value specified not allowed with OUTPUT value.

CPF69A9
Internal error detected, error code &2.

CPF70FF
Internal system journal function failed.

CPF701B
Journal recovery of an interrupted operation failed.

CPF702C
An attached receiver has previously been destroyed.

CPF706B
Not authorized to specify JRN(*INTSYSJRN).

CPF706C
Value &1 for JRNID parameter not valid.

CPF708D
Journal receiver found logically damaged.

CPF9801
Object &2 in library &3 not found.

CPF9802
Not authorized to object &2 in &3.

CPF9803
Cannot allocate object &2 in library &3.

CPF9810
Library &1 not found.

CPF9820
Not authorized to use library &1.

CPF9825
Not authorized to device &1.

CPF9860
Error occurred during output file processing.

CPF9871
Error occurred while processing.

CPF9875
Resources exceeded on ASP &1.

Work with Journal Receivers (WRKJRNRCV)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Journal Receivers (WRKJRNRCV) command allows you to show a list of journal receivers from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the journal receivers to which you have some authority will be shown on the display.
- To perform operations on the journal receivers, you must have *USE authority to the command used by the operation, and the appropriate authority to the journal receivers on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
JRNRCV	Journal receiver	*Qualified object name*	Required, Positional 1
	Qualifier 1: Journal receiver	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Journal receiver (JRNRCV)

Specifies the journal receivers to be shown.

This is a required parameter.

Qualifier 1: Journal receiver

*ALL   All journal receivers are shown.

generic-name
Specify the generic name of the journal receivers to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all journal receivers that have names with the same prefix as the generic name are shown.

name   Specify the name of the journal receiver to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB

The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Examples

```
WRKJRNRCV   JRNRCV(LIB01/ABC*)
```

This command allows you to display and work with a list of journal receivers whose name begin with the letters 'ABC' and are stored in library LIB01.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

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Work with Journal Receivers (WRKJRNRCV) **73**

Work with JVM Jobs (WRKJVMJOB)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with JVM Jobs (WRKJVMJOB) command allows the user to monitor Java Virtual Machines (JVMs) running in active jobs. If the values specified for the Job name (JOB) parameter identify a single job, a menu is displayed showing the options available for the specific JVM job. Otherwise a list of jobs with active JVMs is displayed.

Once a specific job is identified, the following information or functionality is available for the IBM Technology for Java Virtual Machine job:

- The arguments and options with which the JVM was started.
- Environment variables for both ILE and PASE.
- Java lock requests outstanding for the JVM job.
- Garbage collection information.
- The properties with which the JVM was started.
- The properties with which the JVM is currently running.
- The list of threads associated with the JVM.
- The partially completed job log for the JVM job.
- The ability to work with spooled input and output files for the JVM job.
- The ability to generate JVM (System, Heap, Java) dumps from a panel option.
- The ability to enable and disable verbose garbage collection from a panel option.

Restrictions:

Any user can generate a list of the jobs with active JVMs. However, in order to work with a single JVM job the issuer of the command must be running under a user profile which is the same as the job user identity of the job being worked with, or the issuer of the command must be running under a user profile which has job control (*JOBCTL) special authority.

The job user identity is the name of the user profile by which a job is known to other jobs. More information about the job user identity is in the Work management topic collection in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter.

Parameters

Keyword	Description	Choices	Notes
JOB	Job name	*Qualified job name*	Optional, Positional 1
	Qualifier 1: Job name	*Generic name, name*, ***ALL**	
	Qualifier 2: User	*Generic name, name*, ***ALL**	
	Qualifier 3: Number	000000-999999, ***ALL**	
OPTION	Option	***SELECT**, *CRTOPT, *ENVVAR, *PASEENVVAR, *LCK, *GC, *THREAD, *INLPROP, *CURPROP, *HEAPDMP	Optional

Job name (JOB)

Specifies the name of the job where the JVM is running. If no job number and user name is given, all of the jobs currently in the system are searched for the simple job name. The job name entered must be a job in which an IBM Technology for Java VM is currently running. If multiple jobs are found, the *OPTION parameter is ignored and the list of jobs is displayed.

Qualifier 1: Job

*ALL All jobs with the specified job user name and job number are searched for an active IBM Technology for Java Virtual Machine.

generic-name
Specify the generic name of the job to be displayed. A generic name is a character string of one or more characters followed by an asterisk (*). If a generic name is specified, all jobs with active JVMs with job names that have the same prefix as the generic name are displayed.

name Specify the name of the job to be displayed.

Qualifier 2: User

*ALL All jobs with the specified job name and job number are searched for an active IBM Technology for Java Virtual Machine.

generic-name
Specify a generic name that identifies the user profile under which the job was started. A generic name is a character string of one or more characters followed by an asterisk (*). If a generic name is specified, all jobs with active JVMs with job users that have the same prefix as the generic name are displayed.

name Specify the name that identifies the user profile under which the job was started.

Qualifier 3: Number

*ALL All jobs with the specified job name and job user are searched for an active IBM Technology for Java Virtual Machine.

000000-999999
Specify the job number assigned by the system.

Option (OPTION)

Specifies which information is being worked with. If multiple jobs are found, the *OPTION parameter is ignored and the list of jobs is displayed.

*SELECT
Display the Work with Java Virtual Machine menu which allows you to select the option that is needed.

*CRTOPT
Display JVM creation options

*ENVVAR
Display environment variables

*PASEENVVAR
>   Display PASE environment variables

*LCK   Display Java lock information

*GC   Display garbage collection information

*THREAD
>   Display threads

*INLPROP
>   Display initial Java system properties

*CURPROP
>   Display current Java system properties

Examples

Example 1: Showing All Jobs With Active JVMs

WRKJVMJOB

This command displays a panel listing all of the jobs running on the system which have an active IBM Technology for Java VM.

Example 2: Showing Actions For Specific Job

WRKJVMJOB   JOB(032072/NISTLER/QP0ZSPWP)

This command will display a panel listing actions that may be taken on the job named 032072/NISTLER/QP0ZSPWP.

Error messages

*ESCAPE Messages

CPE3440
>   Operation not supported.

CPF1071
>   No authority to job &3/&2/&1.

CPF9871
>   Error occurred while processing.

JVAB321
>   Java Virtual Machine job &3/&2/&1 not found or not active.

JVAB322
>   Not authorized to perform function on Java Virtual Machine.

JVAB323
>   Operation not supported with a Classic Java Virtual Machine.

JVAB325

Java Thread not found.

JVAB326

Verbose garbage collection has been enabled.

JVAB327

Verbose garbage collection has been disabled.

JVAB331

WRKJVMJOB failed.

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Work With LAN Adapters (WRKLANADPT)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Local Area Network Adapters (WRKLANADPT) command shows a list of active local area network (LAN) adapters.

Notes:

1. To determine whether network adapters are active or inactive, the LAN manager performs a query of all adapters that are entered in the network adapter file. Adapters that respond to the query are identified as being active on the network; those that do not respond are identified as being inactive on the network.

2. Adapters that are not currently entered in the network adapter file are automatically added, and a default adapter name is assigned. The default adapter name consists of the character D, followed by the last nine digits of the adapter address.

Parameters

Keyword	Description	Choices	Notes
LINE	Line description	*Name*	Required, Positional 1
OUTPUT	Output	*, *PRINT	Optional

Line description (LINE)

Specifies the name of the line that is attached to the adapters to be displayed.

This is a required parameter.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT The output is printed with the job's spooled output.

Examples

```
WRKLANADPT   LINE(DETBRANCH)
```

This command displays a list of adapters that are connected to the DETBRANCH line.

Error messages

*ESCAPE Messages

CPF8B68
> Line description &23 not found.

CPF8B69
> Line description &23 not valid for requested action.

CPF8B72
> Change failed. Adapter &29 not found in network adapter file.

CPF8B74
> Request to display active adapters failed.

CPF8B75
> No adapter entries in network adapter file.

CPF8B76
> No functional addresses for adapter.

Work with Libraries (WRKLIB)

The Work with Libraries (WRKLIB) command shows a list of libraries and allows you to copy, delete, display, print, save, restore, change, and clear specified libraries.

Restrictions:

- Only the libraries to which you have some authority will be shown on the display.
- To perform operations on the libraries, you must have use (*USE) authority to the command used by the operation, and the appropriate authority to the libraries on which the operation is to be performed.

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Parameters

Keyword	Description	Choices	Notes
LIB	Library	*Qualifier list*	Optional, Positional 1
	Qualifier 1: Library	*Generic name, name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	
ASP	ASP number	1-32, ***ALL**	Optional
ASPDEV	ASP device	*Name*, *****, *SYSBAS, *CURASPGRP	Optional

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Library (LIB)

Specifies the libraries to be shown on the Work with Libraries display.

*LIBL   All libraries in the thread's library list are shown.

> **Note:** A library can appear more than once in the list of libraries shown on the Work with Libraries display if that library is in the system portion or user portion of the library list and is also one of the product libraries or the current library for the thread.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are shown. If there is no current library entry, only the libraries in the user portion of the library list are shown.

> **Note:** A library can appear more than once in the list of libraries shown on the Work with Libraries display if that library is in the user portion of the library list and is also the current library for the thread.

*CURLIB
> The current library for the thread is shown. If no library is specified as the current library for the thread, the QGPL library is shown.

*ALL   All the libraries in the auxiliary storage pools (ASPs) specified by the **ASP number (ASP)** parameter or the **ASP device (ASPDEV)** parameter are shown.

*ALLUSR

All user libraries are displayed. All libraries with names that do not begin with the letter Q are displayed except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also displayed:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

generic-name

Specify the generic name of the libraries to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all libraries that have names with the same prefix as the generic name are shown.

name   Specify the name of the library to be shown.

ASP number (ASP)

Specifies the auxiliary storage pool (ASP) for the libraries that should be shown on the Work with Libraries display. This parameter is ignored when a value of *LIBL, *CURLIB or *USRLIBL is entered for the library parameter. If a number is specified for this parameter, the **ASP device (ASPDEV)** parameter value must be *.

*ALL   All ASPs defined by the value for the **ASP device (ASPDEV)** parameter will be searched.

1-32   Specify the number of the system or basic user ASP to be searched. ASP 1 is the system ASP, which is always configured. Basic user ASPs are 2-32, and must designate an ASP that is configured on the system. For information on configuring an ASP, see the Recovering your system book, SC41-5304.

ASP device (ASPDEV)

Specifies the auxiliary storage pool (ASP) device name where storage for the library being displayed is allocated. If the library is in an ASP that is not part of the thread's library name space, this parameter must be specified to ensure the correct library is displayed. If a number is specified for the **ASP number (ASP)** parameter, the ASPDEV parameter value must be *.

* The ASPs that are currently part of the thread's library name space will be searched to find the library. This includes the system ASP (ASP 1), all defined basic user ASPs (ASPs 2-32), and, if the thread has an ASP group, the primary and secondary ASPs in the thread's ASP group.

*SYSBAS
The system ASP (ASP 1) and all defined basic user ASPs (ASPs 2-32) will be searched to find the library. No primary or secondary ASPs will be searched, even if the thread has an ASP group.

*CURASPGRP
If the thread has an ASP group, the primary and secondary ASPs in the thread's ASP group will be searched to find the library. The system ASP (ASP 1) and defined basic user ASPs (ASPs 2-32) will not be searched. If no ASP group is associated with the thread an error will be issued.

name Specify the device name of the primary or secondary ASP to be searched. The primary or secondary ASP must have been activated (by varying on the ASP device) and have a status of 'Available'. The system ASP (ASP 1) and configured basic user ASPs (ASPs 2-32) will not be searched.

Examples

```
WRKLIB   LIB(QJ*)  ASP(2)
```

This command allows you to work with a list of libraries in auxiliary storage pool (ASP) 2 that begin with the letters 'QJ'.

Error messages

*ESCAPE Messages

CPF218C
&1 not a primary or secondary ASP.

CPF2302
Device &1 not found in ASP group &2.

CPF9809
Library &1 cannot be accessed.

CPF9814
Device &1 not found.

CPF9820
Not authorized to use library &1.

CPF9825
Not authorized to device &1.

CPF9833

       *CURASPGRP or *ASPGRPPRI specified and thread has no ASP group.

CPFB8ED

       Device description &1 not correct for operation.

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Work with License Information (WRKLICINF)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with License Information (WRKLICINF) command allows you to show or print specified products or features found on the system which contain license information. When no parameters are specified, a list of all products with license information is shown. This list allows you to change, display, or print the license information, to reset the peak usage information, or to work with the license users of a product or feature.

Restriction: This command is shipped with public *EXCLUDE authority.

Parameters

Keyword	Description	Choices	Notes
PRDID	Product identifier	*Character value*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Product identifier (PRDID)

Specifies the identifier (ID) of the product for which license information is to be displayed.

*ALL   All of the products found on the system which contain license information are displayed.

product-identifier
    Specify the seven-character ID of the product for which license information is to be displayed.

generic*-product-identifier
    Specify the generic identifier for the products to be displayed. A generic product identifier is specified in the same manner as a generic name.

    A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

Output (OUTPUT)

Specifies whether the output from the command is shown at the requesting work station or printed with the job's spooled output.

*   The output requested is shown on the display.

*PRINT
> The output is printed with the job's spooled output.

Examples

Example 1: Showing License Information for a Product

```
WRKLICINF   PRDID(1MYPROD)
```

This command shows product license information on your display station for the product with product identifier 1MYPROD.

Example 2: Printing All License Information

```
WRKLICINF   OUTPUT(*PRINT)  PRDID(*ALL)
```

This command prints, with your job's spooled output, a list of all products on the system which contain license information.

Error messages

*ESCAPE Messages

CPF9E11
> License information not retrieved.

CPF9E12
> License information not available.

CPF9E24
> License user &4 not released.

CPF9E26
> &4 license users not released.

Work with Line Descriptions (WRKLIND)

The Work with Line Descriptions (WRKLIND) command provides an interactive interface to line description functions through the Work with Line Descriptions display.

Parameters

Keyword	Description	Choices	Notes
LIND	Line description	*Generic name, name*, ***ALL**, *ASYNC, *BSC, *DDI, *ELAN, *FAX, *FR, *IDLC, *NET, *PPP, *SDLC, *TDLC, *TRLAN, *WLS, *X25	Optional, Positional 1

Line description (LIND)

Specifies the line description to work with.

*ALL   Work with all line descriptions.

*ASYNC
        You can work with all lines configured for asynchronous communications.

*BSC   You can work with all lines configured for binary synchronous communications.

*DDI   The user can work with all lines configured for distributed data interface.

*ELAN
        You can work with all lines configured for an Ethernet local area network.

*FAX   The user can work with all lines configured for fax communications.

*FR   The user can work with all lines configured for frame relay direct communications.

*IDLC You can work with all ISDN Data Link Control (IDLC) lines.

*NET   The user can work with all lines configured for network communications.

*PPP   The user can work with all lines configured for Point-to-Point Protocol (PPP) communications.

*SDLC
        You can work with all lines configured for synchronous data link control communications.

*TDLC
        You can work with all lines configured for twinaxial data link communications.

*TRLAN
        You can work with all lines configured for a token ring local area network.

*WLS   The user can work with all lines configured for a wireless local area network.

*X25   You can work with all X.25 lines.

generic-name
> Specify a generic line description name.

name   Specify the name of a line description.

Note: A generic name is specified as a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all objects that have names with the same prefix as the generic object name are selected.

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Examples

```
WRKLIND   LIND(LINE01)
```

This command displays the Work with Line Descriptions panel showing an entry for line LINE01. If LINE01 does not exist, no entries are shown.

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Error messages

None

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Work with Object Links (WRKLNK)

The Work with Object Links (WRKLNK) command shows a list of names of specified objects in directories and options to work with the objects.

Restrictions:

- To perform operations on the objects, the user must have use (*USE) authority to the command used by the operation, and the appropriate authority to the objects on which the operation is to be performed.

Note: The authority requirements for this command are complex with respect to file systems, object types, requested operations etc.. Therefore, see the System i Security Reference, SC41-5302 book for information about the required authorities for this command.

For more information about integrated file system commands, see the Integrated file system topic collection in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/.

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Parameters

Keyword	Description	Choices	Notes
OBJ	Object	*Path name*, *****	Optional, Positional 1
OBJTYPE	Object type	***ALL**, *ALLDIR, *ALRTBL, *AUTL, *BLKSF, *BNDDIR, *CFGL, *CHTFMT, *CHRSF, *CLD, *CLS, *CMD, *CNNL, *COSD, *CRG, *CRQD, *CSI, *CSPMAP, *CSPTBL, *CTLD, *DDIR, *DEVD, *DIR, *DOC, *DSTMF, *DTAARA, *DTADCT, *DTAQ, *EDTD, *EXITRG, *FCT, *FIFO, *FILE, *FLR, *FNTRSC, *FNTTBL, *FORMDF, *FTR, *GSS, *IGCDCT, *IGCSRT, *IGCTBL, *IMGCLG, *IPXD, *JOBD, *JOBQ, *JOBSCD, *JRN, *JRNRCV, *LIB, *LIND, *LOCALE, *MBR, *MEDDFN, *MENU, *MGTCOL, *MODD, *MODULE, *MSGF, *MSGQ, *M36, *M36CFG, *NODGRP, *NODL, *NTBD, *NWID, *NWSD, *OUTQ, *OVL, *PAGDFN, *PAGSEG, *PDG, *PGM, *PNLGRP, *PRDAVL, *PRDDFN, *PRDLOD, *PSFCFG, *QMFORM, *QMQRY, *QRYDFN, *RCT, *SBSD, *SCHIDX, *SOCKET, *SPADCT, *SQLPKG, *SQLUDT, *SRVPGM, *SSND, *STMF, *SVRSTG, *SYMLNK, *S36, *TBL, *TIMZON, *USRIDX, *USRPRF, *USRQ, *USRSPC, *VLDL, *WSCST	Optional
DETAIL	Detail	***PRV**, *NAME, *BASIC, *EXTENDED	Optional
DSPOPT	Display option	***PRV**, *USER, *ALL	Optional

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Object (OBJ)

Specifies which objects are shown.

* All objects in the current directory are displayed.

object-path-name

Specify the name of the object or a pattern to match the name(s) of the object(s) to be shown. The object path name can be either a simple name or a name that is qualified with the name of the directory in which the object is located. A pattern can be specified in the last part of the path name. An asterisk (*) matches any number of characters and a question mark (?) matches a single character. If the path name is qualified or contains a pattern, it must be enclosed in apostrophes.

For more information on specifying path names, refer to "Object naming rules" in the CL topic collection in the Programming category in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/.

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Object type (OBJTYPE)

Specifies the type of objects to display.

*ALL All objects whose name matches the pattern specified in the **Object (OBJ)** parameter are displayed.

*ALLDIR

All directory types (DIR, LIB, FLR, database FILE) are displayed.

object-type

Specify the type of object matching the name pattern that is to be displayed.

To see a complete list of object types when prompting this command, position the cursor on the field for this parameter and press F4 (Prompt). For a description of the object types, see "Object types" in the CL topic collection in the Programming category in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/.

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Detail (DETAIL)

Specifies how much information is to be displayed on the Work with Object Links (WRKLNK) list.

*PRV The same information that was displayed when the user ran this command previously is shown. The value *BASIC is used if the user has not used this command or the Display Object Links (DSPLNK) command.

*NAME

Only the name is displayed.

*BASIC

The name is displayed along with the type, type attribute, and text.

*EXTENDED

In addition to the basic information noted above, the type field is extended to show more information about symbolic links and an additional option is displayed to work with hard or symbolic links.

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Display option (DSPOPT)

Specifies whether to display PC system and hidden objects.

*PRV The same value is used for this parameter as the previous time the user ran this command. If this command has not been used before, *USER is used.

*USER
The PC system and the hidden objects are not displayed. Objects beginning with a period (.) are not shown unless the specified pattern begins with a period (.).

*ALL All objects, including the PC system and hidden objects, are displayed. Objects beginning with a period (.) are shown (with asterisk (*) specified for the pattern) including the directory (.) and parent directory (..) entries.

Examples

Example 1: Working with an Object Link

```
WRKLNK   OBJ('X/PAY')
```

This command displays the Work with Object Links panel. This panel shows a list of names of objects in a directory and provides options for performing operations on those objects. In this example, the object's name is PAY and is located in directory X in the current directory.

Error messages

*ESCAPE Messages

CPF9899
Error occurred during processing of command.

CPFA085
Home directory not found for user &1.

CPFA0A7
Path name too long.

CPFA0A9
Object not found. Object is &1.

Work with MLB Resource Queue (WRKMLBRSCQ)

Where allowed to run:
- Interactive job (*INTERACT)
- Interactive program (*IPGM)
- Interactive ILE CL module (*IMOD)
- Interactive REXX procedure (*IREXX)

Threadsafe: No

The Work with MLB Resource Queue (WRKMLBRSCQ) command allows a user to work with the resource allocation requests for the specified media library device.

Restrictions:
- The job being changed must use the same user profile as the user issuing the command, or the issuer must have job control special authority (*JOBCTL).
- Only a user with job control special authority (*JOBCTL) can change the resource allocation priority.

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Parameters

Keyword	Description	Choices	Notes
MLB	Library device	*Name*	Required, Positional 1

Top

Library device (MLB)

Specifies the media library device to work with.

This is a required parameter.

name   Specify the name of the media library device.

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Examples

```
WRKMLBRSCQ   MLB(TAPMLB01)
```

This command displays a list of requests to use a resource in tape media library TAPMLB01.

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Error messages

CPF6708

>   Command ended due to error.

CPF6745

>   Device &1 not a media library device.

CPF9814

>   Device &1 not found.

CPF9825

>   Not authorized to device &1.

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Work with Media Library Status (WRKMLBSTS)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Media Library Status (WRKMLBSTS) command is used to display and work with media library status functions. When this command is run, the Work with Media Library Status display is shown. This display shows status information for library configuration descriptions. All associated drive resources are shown for each library device description selected.

Options available on the Work with Media Library Status display are to vary status and to work with device descriptions. For tape media library devices, options are also available to allocate and reset drive resources within the device.

Parameters

Keyword	Description	Choices	Notes
MLB	Library device	*Generic name, name*, ***ALL**, *OPTMLB, *TAPMLB, *RSRCNAME	Optional, Positional 1
RSRCNAME	Resource name	*Name*, *NONE	Optional, Positional 2

Library (MLB)

Specifies the descriptions shown on the Work with Media Library Status display.

*ALL

All media library descriptions are shown.

*OPTMLB

Optical media library devices are shown.

*TAPMLB

Tape media library devices are shown.

*RSRCNAME

All media library descriptions which have the specified resource name (RSRCNAME parameter) are shown.

generic*-device-description-name

Specify the generic name of the description. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

device-description-name

Specify a media library device description to be shown.

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Examples

```
WRKMLBSTS   MLB(*ALL)
```

This command displays the Work with Media Library Status panel, which shows the status for all media library devices.

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Error messages

None

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Work with Menus (WRKMNU)

The Work with Menus (WRKMNU) command shows a list of menus and allows you to delete, change, go to, or display the attributes for the specified menus.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the menus to which you have some authority will be shown on the display.
- To perform operations on the menus, you must have *USE authority to the command used by the operation, and the appropriate authority to the menus on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
MENU	Menu	*Qualified object name*	Required, Positional 1
	Qualifier 1: Menu	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Menu (MENU)

Specifies the menus to be shown on the Work with Menus display.

This is a required parameter.

Qualifier 1: Menu

*ALL   All menus are listed.

generic-name

Specify the generic name of the menus to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all menus that have names with the same prefix as the generic name are shown.

name   Specify the name of the menu to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB

The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx    QUSRDIRDB    QUSRVI
QGPL        QSRVAGT      QUSRIJS      QUSRVxRxMx
QGPL38      QSYS2        QUSRINFSKR
QMGTC       QSYS2xxxxx   QUSRNOTES
QMGTC2      QS36F        QUSROND
QMPGDATA    QUSER38      QUSRPOSGS
QMQMDATA    QUSRADSM     QUSRPOSSA
QMQMPROC    QUSRBRM      QUSRPYMSVR
QPFRDATA    QUSRDIRCF    QUSRRDARS
QRCL        QUSRDIRCL    QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Examples

```
WRKMNU   PERSLIB/OE*
```

This command displays the Work with Menus panel, which shows the list of all menus in library PERSLIB whose names begin with the letters 'OE'.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work with Module (WRKMOD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Modules (WRKMOD) command allows you to display and work with a list of modules from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority are searched.
- Only the modules to which you have read (*READ) authority are shown on the display.
- To perform operations on the modules, you must have *USE authority to the command used by the operation, and the appropriate authority to the modules on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
MODULE	Module	*Qualified object name*	Required, Positional 1
	Qualifier 1: Module	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	
MODATR	Module attribute	***ALL**, CBLLE, CLE, CLLE, CPPLE, RPGLE	Optional, Positional 2

Module (MODULE)

Specifies how to search for modules to be placed in the list. All modules with names that correspond to the specified parameter value, and for which the user has authority, are shown.

This is a required parameter.

Qualifier 1: Module

*ALL   All modules in the libraries identified in the library qualifier are shown (except those libraries for which the user does not have authority).

generic-name
Specify the generic name of the module. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified, then all modules with names that begin with the generic name, and for which the user has authority, are shown. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete module name.

name   Specify the name of the module shown.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the job is searched. If no library is specified as the current library for the job, the QGPL library is used.

*USRLIBL
> Only the libraries in the user portion of the job's library list are searched.

*ALL All libraries in the system portion of the job's library list, including QSYS, are searched.

*ALLUSR
> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx    QUSRDIRDB    QUSRVI
QGPL        QSRVAGT      QUSRIJS      QUSRVxRxMx
QGPL38      QSYS2        QUSRINFSKR
QMGTC       QSYS2xxxxx   QUSRNOTES
QMGTC2      QS36F        QUSROND
QMPGDATA    QUSER38      QUSRPOSGS
QMQMDATA    QUSRADSM     QUSRPOSSA
QMQMPROC    QUSRBRM      QUSRPYMSVR
QPFRDATA    QUSRDIRCF    QUSRRDARS
QRCL        QUSRDIRCL    QUSRSYS
```

> 1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
> 2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

name Specify the name of the library to be searched.

Module attribute (MODATR)

Specifies that a list of modules with the selected attribute is shown.

*ALL Modules are shown regardless of the attribute associated with the module.

CBLLE
> Modules with the CBL attribute (ILE COBOL modules) are shown.

CLE Modules with the C attribute (ILE C modules) are shown.

CLLE Modules with the CL attributes (ILE CL modules) are shown.

CPPLE
> Modules with the CPPLE attribute (ILE C++ modules) are shown.

RPGLE
> Modules with the RPG attribute (ILE RPG modules) are shown.

Examples

```
WRKMOD   MODULE(MYLIB/*ALL)
```

This command lists all the modules to which the user has authority that are stored in library MYLIB.

Error messages

*ESCAPE Messages

CPF9809
> Library &1 cannot be accessed.

CPF9820
> Not authorized to use library &1.

Work with Mode Descriptions (WRKMODD)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Mode Descriptions (WRKMODD) command allows you to work with mode description functions through the Work with Mode Descriptions display.

Parameters

Keyword	Description	Choices	Notes
MODD	Mode description	*Generic name, name*, ***ALL**	Optional, Positional 1

Mode description (MODD)

Specifies the mode description to work with.

*ALL   Work with all mode descriptions.

generic-mode-description-name
Specify a generic mode description name.

Note: A generic name is specified as a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all objects that have names with the same prefix as the generic object name are selected.

mode-description-name
Specify the name of specific mode description.

Examples

```
WRKMODD  MODD(*ALL)
```

This command displays the Work with Mode Descriptions panel, which shows entries for all existing mode descriptions.

Error messages

None

Work with Messages (WRKMSG)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work With Messages (WRKMSG) command is used by the display station user to work with messages received at a specified message queue.

Parameters

Keyword	Description	Choices	Notes
MSGQ	Message queue	Single values: ***WRKUSR**, *SYSOPR, *USRPRF, *WRKSTN Other values: *Qualified object name*	Optional, Positional 1
	Qualifier 1: Message queue	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
OUTPUT	Output	*****, *PRINT	Optional
MSGTYPE	Message type	***ALL**, *INFO, *INQ, *COPY	Optional
SEV	Severity code filter	0-99, **0**, *MSGQ	Optional
ASTLVL	Assistance level	***PRV**, *USRPRF, *BASIC, *INTERMED	Optional

Message queue (MSGQ)

Specifies the message queue from which messages are shown.

Note: The special values *WRKSTN, *WRKUSR, *USRPRF, and *SYSOPR should be specified for this parameter only when you are in an interactive job.

Single values

*WRKUSR
> Messages from the work station's message queue and the current user's user profile message queue are shown.

*SYSOPR
> Messages from the system operator message queue (QSYSOPR) are shown.

*WRKSTN
> Messages from the work station's message queue are shown.

*USRPRF
> Messages from the current user profile message queue are shown.

Qualifier 1: Message queue

name Specify the name of the message queue from which messages are shown.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
> The current library for the job is used to locate the message queue. If no current library entry exists in the library list, QGPL is used.

name Specify the library where the message queue is located.

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Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* The output is shown (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job). Immediate messages and predefined messages are truncated to 105 characters when printed.

*PRINT
> The output is printed with the job's spooled output.

When the output is printed, two lines are printed for each message. The second line contains the following information:
- Qualified job name of the job that sent the message. This consists of the following three fields:
  - Job name
  - User name
  - Job number
- Name of the program that sent the message
- Instruction number in program that sent the message. For non-program message queues this is always zeroes.
- The date and time the message was sent.
- The name of the user profile that the thread was running under when the message was sent.

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Message type (MSGTYPE)

Specifies the type of messages in the message queue that are shown.

*ALL All messages that are in the message queue are shown.

*INFO
> Only informational messages (those not requiring a reply) are shown.

*INQ Only inquiry messages (those requiring a reply) are shown.

*COPY
> A copy of each sender's message that was sent to another message queue and required a reply is shown.

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Severity code filter (SEV)

Specifies the lowest severity code value that a message can have and be shown. If the message's severity code is lower than the value specified here, the message is not shown.

0   All messages in the specified message queue are shown.

*MSGQ

All messages having a severity code greater than or equal to the severity code specified for the message queue are shown.

severity-code

Specify the lowest severity code value that a message can have and still be shown. Valid values range from 00 through 99.

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Assistance level (ASTLVL)

Specifies which user interface to display.

*PRV   The previous user interface used is displayed.

*USRPRF

The user interface stored in the current user profile is used.

*BASIC

The Work with Messages display is shown. This user interface separates messages into two categories: 1) messages requiring a reply and 2) messages not requiring a reply. New messages are shown at the top of each message list.

*INTERMED

The Display Messages display is shown.

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Examples

```
WRKMSG
```

This command displays all messages from the requester's work station message queue and user profile message queue. Messages needing a reply are displayed first, followed by messages not needing a reply. Messages are displayed from newest to oldest.

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Error messages

*ESCAPE Messages

CPF2203

User profile &1 not correct.

CPF2204

User profile &1 not found.

CPF2217

Not authorized to user profile &1.

CPF2225

Not able to allocate internal system object.

CPF2401

Not authorized to library &1.

CPF2403

Message queue &1 in &2 not found.

CPF2408

Not authorized to message queue &1.

CPF2433

Function not allowed for system log message queue &1.

CPF2450

Work station message queue &1 not allocated to job.

CPF2451

Message queue &1 is allocated to another job.

CPF2477

Message queue &1 currently in use.

CPF2513

Message queue &1 cannot be displayed.

CPF2537

Too many records written to file &2 in &3.

CPF8127

&8 damage on message queue &4 in &9. VLIC log-&7.

CPF8176

Message queue for device description &4 damaged.

CPF9830

Cannot assign library &1.

CPF9845

Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9847

Error occurred while closing file &1 in library &2.

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Work with Message Descriptions (WRKMSGD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Message Descriptions (WRKMSGD) command shows detailed information about the messages contained in a message file. This command can be used to add, change, remove, and print message descriptions through the Work with Message Descriptions display. When message descriptions are changed by using this display, the current values for the message are shown in the command prompt. However, there is a 512-character limit for the second-level message text.

Parameters

Keyword	Description	Choices	Notes
MSGID	Message identifier	*Name*, ***FIRST**	Optional, Positional 1
MSGF	Message file	*Qualified object name*	Optional, Positional 2
	Qualifier 1: Message file	*Name*, **QCPFMSG**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

Message identifier (MSGID)

Specifies the message identifier with which to begin showing a list of message descriptions in the message file specified for the **Message file (MSGF)** parameter.

*FIRST
    The first message description in the message file is used to begin the list display.

message-identifier
    Specify the message identifiers of one or more messages whose descriptions are to be shown. The message identifiers must each be 7 characters long and in the following format: *pppnnnn*

    The first 3 characters must be a code consisting of an alphabetic character followed by two alphanumeric (alphabetic or decimal) characters; the last 4 characters may consist of the decimal numbers ranging from 0 through 9, and the characters A through F.

Message file (MSGF)

Specifies the message file from which the message descriptions are taken.

Qualifier 1: Message file

QCPFMSG
    Message descriptions are taken from the system message file, QCPFMSG.

name   Specify the name of the message file from which the message descriptions are taken.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
>   The current library for the job is used to locate the message file. If no current library entry exists in the library list, QGPL is used.

name   Specify the library where the message file is located.

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Examples

```
WRKMSGD    MSGF(QSYS/QCPFMSG)
```

This command displays the Work with Message Descriptions panel, showing all message descriptions found in message file QCPFMSG in library QSYS. From that panel, the user can add, change, delete, display, or print the message descriptions.

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Error messages

*ESCAPE Messages

CPF2401
>   Not authorized to library &1.

CPF2407
>   Message file &1 in &2 not found.

CPF2411
>   Not authorized to message file &1 in &2.

CPF2483
>   Message file currently in use.

CPF2499
>   Message identifier &1 not valid.

CPF2510
>   Message file &1 in &2 logically damaged.

CPF2516
>   Unable to open display or printer file &1 in &2.

CPF9807
>   One or more libraries in library list deleted.

CPF9810
>   Library &1 not found.

CPF9830
>   Cannot assign library &1.

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Work with Message Files (WRKMSGF)

The Work with Message Files (WRKMSGF) command allows you to show a list of message files from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the message files to which you have some authority will be shown on the display.
- To perform operations on the message files, you must have *USE authority to the command used by the operation, and the appropriate authority to the message files on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
MSGF	Message file	*Qualified object name*	Required, Positional 1
	Qualifier 1: Message file	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Message file (MSGF)

Specifies the message files to be shown.

This is a required parameter.

Qualifier 1: Message file

*ALL   All message files are shown.

generic-name
>   Specify the generic name of the message files to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all message files that have names with the same prefix as the generic name are shown.

name   Specify the name of the message file to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
>   The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx    QUSRDIRDB    QUSRVI
QGPL        QSRVAGT      QUSRIJS      QUSRVxRxMx
QGPL38      QSYS2        QUSRINFSKR
QMGTC       QSYS2xxxxx   QUSRNOTES
QMGTC2      QS36F        QUSROND
QMPGDATA    QUSER38      QUSRPOSGS
QMQMDATA    QUSRADSM     QUSRPOSSA
QMQMPROC    QUSRBRM      QUSRPYMSVR
QPFRDATA    QUSRDIRCF    QUSRRDARS
QRCL        QUSRDIRCL    QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Examples

```
WRKMSGF   MSGF(ACCNTLIB/*ALL)
```

This command displays the Work with Message Files panel, showing all the message files in the ACCNTLIB library.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work with Message Queues (WRKMSGQ)

The Work with Message Queues (WRKMSGQ) command shows a list of message queues and allows you to display, change, delete, and clear specified message queues.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the message queues to which you have some authority will be shown on the display.
- To perform operations on the message queues, you must have *USE authority to the command used by the operation, and the appropriate authority to the message queues on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
MSGQ	Message queue	*Qualified object name*	Required, Positional 1
	Qualifier 1: Message queue	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Message queue (MSGQ)

Specifies the message queues to be shwon on the Work with Message Queues display.

This is a required parameter.

*ALL   All message queues are shown.

generic-name
> Specify the generic name of the message queues to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all message queues that have names with the same prefix as the generic name are shown.

name   Specify the name of the message queue to be listed.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX      QRCLxxxxx   QUSRDIRDB    QUSRVI
QGPL       QSRVAGT     QUSRIJS      QUSRVxRxMx
QGPL38     QSYS2       QUSRINFSKR
QMGTC      QSYS2xxxxx  QUSRNOTES
QMGTC2     QS36F       QUSROND
QMPGDATA   QUSER38     QUSRPOSGS
QMQMDATA   QUSRADSM    QUSRPOSSA
QMQMPROC   QUSRBRM     QUSRPYMSVR
QPFRDATA   QUSRDIRCF   QUSRRDARS
QRCL       QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL All libraries in the system, including QSYS, are searched.

name Specify the name of the library to be searched.

Examples

```
WRKMSGQ   MSGQ(PERSLIB/MQ*)
```

This command displays the Work with Message Queues panel, showing a list of all message queues whose names begin with the letters 'MQ' that exist in library PERSLIB.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work With Nickname (WRKNCK)

The Work with Nicknames (WRKNCK) command is used to show a list of nicknames you can work with. You can add, change, remove, show, print, and rename nicknames in the system distribution directory with this command.

A **nickname** is a short version of either a directory entry or a distribution list name. More information about nicknames is in the SNA Distribution Services book, SC41-5410.

Restriction:

1. You must have security administrator (*SECADM) authority to change, remove, or rename public nicknames that you do not own. No special authority is needed for you to display public nicknames or to work with public nicknames that you own.

2. Only the owner can change, remove, rename, or display private nicknames. No special authority is needed.

Parameters

Keyword	Description	Choices	Notes
ACCESS	Access	***PRV**, *ALL, *PRIVATE, *PUBLIC	Optional, Positional 1

Access (ACCESS)

Specifies the access of the nicknames to be shown.

*PRV The last access specified by the current user for displaying, selecting, or working with nicknames is used.

*ALL All of the nicknames to which you have access are shown. This includes the private nicknames that you own and all of the public nicknames in the system distribution directory.

*PRIVATE
The private nicknames that you own are shown.

*PUBLIC
All of the public nicknames in the system distribution directory are shown.

Examples

```
WRKNCK   ACCESS(*PRIVATE)
```

This command displays the Work with Private Nicknames panel, from which you can add, change, remove, display, print, and rename your private nicknames.

Error messages

*ESCAPE Messages

CPF8360

Not enough storage for commitment control operation.

CPF9006

User not enrolled in system distribution directory.

CPF905C

Error occurred trying to find a translation table.

CPF9096

Cannot use CMDCHRID(*DEVD), DOCCHRID(*DEVD) in batch job.

CPF9838

User profile storage limit exceeded.

CPF9845

Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9847

Error occurred while closing file &1 in library &2.

CPF9871

Error occurred while processing.

Work with Network Files (WRKNETF)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Network Files (WRKNETF) command displays or prints a list of files that have arrived for a user, or creates an output file containing a list of the files. When the list is shown, you can:

- Receive the file into a user file.
- Delete the file.
- Browse the file (not valid for save files).
- Submit files (submit the input stream). (Also not valid for save files).

This command does not perform any CCSID translation on the contents of the file. However, the user ID and address of both the recipient and the originator are translated from the multinational character set 697/500 to the current job CCSID.

Restrictions:

1. A user with security officer authority can display the network files for any user. Users other than the security officer can show only those files that were sent to them or to their group profile.
2. To perform any of the options from this display, you must be authorized to the command corresponding to that option. For example, you must be authorized to the Display Physical File Member (DSPPFM) command for the browse function, and the Submit Database Jobs (SBMDBJOB) command for the submit job function.
3. To perform WRKNETF in debug mode, update of production files must be allowed by specifying UPDPROD(*YES) on the STRDBG command.

Parameters

Keyword	Description	Choices	Notes
USER	User	*Name*, ***CURRENT**, *ALL	Optional, Positional 1
OUTPUT	Output	*****, *PRINT, *OUTFILE	Optional, Positional 2
OUTFILE	File to receive output	*Qualified object name*	Optional
	Qualifier 1: File to receive output	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
OUTMBR	Output member options	*Element list*	Optional
	Element 1: Member to receive output	*Name*, ***FIRST**	
	Element 2: Replace or add records	***REPLACE**, *ADD	

User (USER)

Specifies the user for whom the files are shown.

*CURRENT
> The network files for the current user are shown.

*ALL   The network files for all users are shown.

user-name
> Specify the name of the specified user whose files are shown.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

The possible values are:

*
> The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT
> The output is printed with the job's spooled output.

*OUTFILE
> The output is directed to the database file specified for the **File to receive output (OUTFILE)** parameter.

File to receive output (OUTFILE)

Specifies the name and library of the database file to which the output of the command is directed. If the file does not exist, this command creates a database file in the specified library.

The possible library values are:

*LIBL   The library list is used to locate the file.

*CURLIB
> The current library for the job is used to locate the file. If no library is specified as the current library for the job, QGPL is used.

library-name
> Specify the library where the file is located.

Member to receive output (OUTMBR)

Specifies the name of the database file member that receives the output of the command.

The possible name values are:

*FIRST

The first member in the file receives the output. If it does not exist, the system creates a member with the name of the file specified on the **File to receive output** prompt (OUTFILE parameter).

member-name

Specify the name of the file member that receives the output. If it does not exist, the system creates it.

The possible values for **how information is stored** are:

*REPLACE

The system clears the existing member and adds the new records.

*ADD The system adds the new records to the end of the existing records.

Examples

Example 1: Working with User's Network Files

```
WRKNETF
```

This command allows you to work with all network files for the user running this command. If the command is issued as an interactive job, the list of files is shown at the requesting work station. If the command is issued as a batch job, the list of files is printed with the job's spooled output.

Example 2: Printing Output

```
WRKNETF   USER(USR1)   OUTPUT(*PRINT)
```

This command allows you to work with the network files for USR1 and prints the output with the job's spooled output. This command can only be issued by USR1, a member of the USR1 group, or a user with security officer authority.

Example 3: Working with Network Files for All Users

```
WRKNETF   USER(*ALL)   OUTPUT(*OUTFILE)   OUTFILE(NETFILES)
```

This command allows you to work with the network files for all users and is written to the first member of a database named NETFILES. If the file exists in a library on the library list, the existing file is used; otherwise, the file is created in the QGPL library. If the file did not exist, or did not contain any members, a member with the same name as the file is added to the file; otherwise, the first member of the file is cleared and used. This command can be issued only by a user with security officer rights.

Error messages

*ESCAPE Messages

CPF2204

User profile &1 not found.

CPF8070

Not allowed to process files for user &1.

CPF9005

System resource required to complete this request not available.

CPF9006

User not enrolled in system distribution directory.

CPF9830

Cannot assign library &1.

CPF9845

Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9847

Error occurred while closing file &1 in library &2.

CPF9860

Error occurred during output file processing.

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Work with Network Job Entries (WRKNETJOBE)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Network Job Entry (WRKNETJOBE) command shows the network job entries. There is one entry for each user or distribution group who can submit jobs to this system.

This entry is used to determine whether the input stream is automatically submitted, placed on the queue of network files for a user, or rejected. This entry also specifies the user profile that is used for checking the authority to the job description referred by the batch job.

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Parameters

Keyword	Description	Choices	Notes
OUTPUT	Output	*, *PRINT	Optional, Positional 1

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Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

The possible values are:

*
The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT
The output is printed with the job's spooled output.

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Examples

Example 1: Printing Output

```
WRKNETJOBE   OUTPUT(*PRINT)
```

This command allows you to work with the network job entries that are printed with the job's spooled output.

Example 2: Working with Network Job Entries

```
WRKNETJOBE   OUTPUT(*)
```

This command, if issued in an interactive job, allows you to work the network job entries at the requesting work station. If the command is issued in a batch job, the network job entries are printed with the job's spooled output.

Error messages

*ESCAPE Messages

CPF1844
> Cannot access network attribute &1.

CPF8050
> Network job table could not be accessed.

CPF9845
> Error occurred while opening file &1.

CPF9846
> Error while processing file &1 in library &2.

Work with Network Table Entry (WRKNETTBLE)

The Work with Network Table Entry (WRKNETTBLE) command is used to show a list of network table entries from which you can add, remove, display, or print the entries. You can also select to print the list.

The network table is used to manage a list of your networks and their associated internet addresses.

Restrictions:

- You must have input/output system configuration (*IOSYSCFG) special authority to add or remove entries using this command.

Parameters

Keyword	Description	Choices	Notes
NETWORK	Network	*Character value*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Network (NETWORK)

Specifies the network entry with which you want to work.

*ALL   All networks in the table are shown or printed.

character-value
    Specify the name of the network. All entries that match are shown or printed.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
    The output is printed with the job's spooled output.

Examples

WRKNETTBLE

This command shows a list of all the network table entries. You can select to add, remove, display, or print the network table entries from this list.

Error messages

None

Work with Node List (WRKNODL)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Node Lists (WRKNODL) command allows the user to work with a list of node list objects, to create a new node list, delete existing node lists, and to work with node list entries.

Restrictions:

1. Only the libraries to which you have *USE authority are searched.

2. Only the node list to which you have some authority is shown on the display.

3. To perform operations on the node lists, you must have *USE authority to the command used by the operation, and the appropriate authority to the node list on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
NODL	Node list	*Qualified object name*	Required, Positional 1
	Qualifier 1: Node list	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALL, *ALLUSR	

Node list (NODL)

Specifies the qualified name of the node lists that are shown.

The node list name can be qualified by one of the following library values:

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
  The current library for the job is searched. If no library is specified as the current library for the job, the QGPL library is used.

*USRLIBL
  Only the libraries in the user portion of the job's library list are searched.

*ALL All libraries in the system portion of the job's library list, including QSYS, are searched.

*ALLUSR
  All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

library-name
> Specify the name of the library to be searched.

The possible values are:

*ALL   All the node lists specified in the library are listed.

node-list-name
> Specify the name of the node list being shown.

generic*-node-list-name
> Specify the generic name of the node list being shown. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk (*) substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix, for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name. If the complete object name is specified, and multiple libraries are searched, multiple objects can be returned, only if *ALL or *ALLUSR library values can be specified for the name.

Top

Examples

```
WRKNODL   NODL(MYLIB/MY*)
```

This command shows a list of all node lists in library MYLIB whose names begin with the letters 'MY'.

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Error messages

*ESCAPE Messages

CPF9809
> Library &1 cannot be accessed.

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CPF9810

   Library &1 not found.

CPF9820

   Not authorized to use library &1.

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Work with Node List Entries (WRKNODLE)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Node List Entries (WRKNODLE) command allows the user to display, print, add, or remove node list entries.

Parameters

Keyword	Description	Choices	Notes
NODL	Node list	*Qualified object name*	Required, Positional 1
	Qualifier 1: Node list	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
ADRTYPE	Address type	***ALL**, *SNA, *IP	Optional

Node list (NODL)

Specifies the qualified name of the node list object from which entries are shown.

The node list name can be qualified by one of the following library values:

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
> The current library for the job is searched. If no library is specified as the current library for the job, the QGPL library is used.

library-name
> Specify the name of the library to be searched.

The possible values are:

node-list-name
> Specify the name of the node list to use.

This is a required parameter.

Address type (ADRTYPE)

Specifies the node list entries to work with, by address type.

The possible values are:

*ALL   All node list entries are shown.

*IP   Only the nodes with an Internet Protocol (IP) address type are shown.

*SNA   Only the nodes with a Systems Network Architecture (SNA) address type are shown.

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Examples

Example 1: Displaying All Node List Entries

```
WRKNODLE   NODL(MYLIB/NODL02)
```

This command shows a list of all entries in the node list NODL02 in library MYLIB.

Example 2: Displaying All IP Node List Entries

```
WRKNODLE   NODL(MYLIB/NODL02)   ADRTYPE(*IP)
```

This command shows a list of all IP entries in the node list NODL02 in library MYLIB.

<div align="right">Top</div>

Error messages

*ESCAPE Messages

CPF7D41
>Error occurred while logging order assistance request.

CPF7D42
>Error occurred while performing database operation.

CPF813E
>Node list &4 in &9 damaged.

CPF9801
>Object &2 in library &3 not found.

CPF9802
>Not authorized to object &2 in &3.

CPF9803
>Cannot allocate object &2 in library &3.

CPF9807
>One or more libraries in library list deleted.

CPF9808
>Cannot allocate one or more libraries on library list.

CPF9809
>Library &1 cannot be accessed.

CPF9810
>Library &1 not found.

CPF9820
>Not authorized to use library &1.

CPF9830

       Cannot assign library &1.

CPF9871

       Error occurred while processing.

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Work with NetBIOS Descriptions (WRKNTBD)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with NetBIOS Descriptions (WRKNTBD) command displays the Work with NetBIOS Descriptions menu, which provides an interactive interface to NetBIOS description functions.

Parameters

Keyword	Description	Choices	Notes
NTBD	NetBIOS description	*Generic name, name*, ***ALL**	Optional, Positional 1

NetBIOS description (NTBD)

Specifies the NetBIOS descriptions to work with.

*ALL   The user can work with all NetBIOS descriptions.

generic*-NetBIOS-description-name
> Specify the generic name of the NetBIOS description. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

NetBIOS-description-name
> Specify the name of the NetBIOS description to work with.

Examples

```
WRKNTBD   NTBD(MYNETBIOS)
```

This command displays the Work with NetBIOS Descriptions panel, showing an entry for NetBIOS description MYNETBIOS. If MYNETBIOS does not exist, no entries are shown.

Error messages

None

Work with Network Interfaces (WRKNWID)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

Parameters
Examples
Error messages

The Work with Network Interface Descriptions (WRKNWID) command provides an interactive interface to network interface description functions through the Work with Network Interface Descriptions display. This command displays the Work with Network Interface Descriptions menu.

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Parameters

Keyword	Description	Choices	Notes
NWID	Network interface description	*Generic name, name*, **<u>*ALL</u>**, *ATM, *FR, *ISDN, *T1	Optional, Positional 1

Top

Network interface description (NWID)

This is a required parameter.

Specifies the network interface descriptions to be worked with.

***ALL**   All network interface descriptions are worked with.

***ATM**   The user can work with asynchronous transfer mode (ATM) network interfaces.

***FR**   The user can work with frame relay network interfaces.

***ISDN**
          The user can work with integrated services digital network interfaces.

generic-name*
          Specify the generic name of the network interface description to be worked with. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name of a network interface description is specified, all network interface descriptions that have names with the same prefix as the generic network interface description are worked with.

network-interface-name
          Specify the name of the network interface description to be worked with.

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Examples

```
WRKNWID  NWID(NET1)
```

This command displays the Work with Network Interface Descriptions panel with an entry for network interface 'NET1'. If NET1 does not exist, no entries are displayed.

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Error messages

None

Work with NWS Configuration (WRKNWSCFG)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with NWS Configuration (WRKNWSCFG) command allows you to work with a network server configuration.

Parameters

Keyword	Description	Choices	Notes
NWSCFG	Network server configuration	*Generic name, name*, ***ALL**	Optional, Positional 1
TYPE	Configuration type	***ALL**, *CNNSEC, *RMTSYS, *SRVPRC	Optional

Network server configuration (NWSCFG)

Specifies the name of the network server configuration.

*ALL   All network server configurations are worked with.

generic-name
          Specify a generic network server configuration name.

Note: A generic name is specified as a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all objects that have names with the same prefix as the generic object name are selected.

name   Work with a specific network server configuration.

Type (TYPE)

Specifies the type of configuration to work with.

*ALL   All network server configurations types are worked with.

*CNNSEC
          All connection security network server configurations are worked with.

*RMTSYS
          All remote system network server configurations are worked with.

*SRVPRC
          All service processor network server configurations are worked with.

Examples

```
WRKNWSCFG NWSCFG(*ALL)
```

This command displays the Work with NWS Configuration panel with entries for all network server configurations. If no network server configurations exist, no entries are shown.

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Error messages

*ESCAPE Messages

None

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Work with Network Servers (WRKNWSD)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Network Server Descriptions (WRKNWSD) command shows the Work with Network Server Descriptions display, which provides an interactive interface to network server description functions.

Parameters

Keyword	Description	Choices	Notes
NWSD	Network server description	*Generic name, name*, ***ALL**	Optional, Positional 1

Network server description (NWSD)

Specifies the network server descriptions to work with.

*ALL   The user can work with all network server descriptions.

generic*-network-server-description-name
Specify the generic name of the network server description. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

network-server-description-name
Specify the name of the network server description to work with.

Examples

```
WRKNWSD   NWSD(*ALL)
```

This command displays the Work with Network Server Descriptions panel with entries for all network server descriptions. If no network server descriptions exist, no entries are shown.

Error messages

None

Work with NWS User Enrollment (WRKNWSENR)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Network Server User Enrollment (WRKNWSENR) command works with a list of user profiles.

The information displayed differs depending on the value of the SVRTYPE parameter.

1. If SVRTYPE(*NWSA) is specified, the display shown depends on the value specified for the DFTSVRTYPE parameter in the network server attributes (CHGNWSA command). The DFTSVRTYPE values that are supported are *WINDOWS, *WINDOWSNT.

2. If SVRTYPE(*NWSUSRA) is specified, the display shown depends on the value specified for the DFTSVRTYPE parameter in the network server user attributes (CHGNWSUSRA command) for the current user. The value in the network server user attributes that are valid for this command are *WINDOWS, *WINDOWSNT.

3. If SVRTYPE(*WINDOWS) or (*WINDOWSNT) is specified, enrollment information is shown for i5/OS users enrolled into Windows domains and local servers.

Specific options are available to work with individual profiles in the list. These options provide functions such as changing user profiles and changing network server user attributes.

Parameters

Keyword	Description	Choices	Notes
USRPRF	User profile	*Generic name, name*, ***ALL**	Optional, Positional 1
PRFTYPE	Profile type	***USER**, *GROUP	Optional, Positional 2
SVRTYPE	Server type	***NWSUSRA**, *WINDOWS, *NWSA, *WINDOWSNT	Optional, Positional 3
SERVER	Server	*Character value*, ***ALL**, *NWSA, *NONE	Optional
DOMAIN	Domain	*Character value*, ***ALL**, *NWSA, *NONE	Optional

User profile (USRPRF)

Specifies the name of a profile.

*ALL   The enrollment status for all profiles is displayed.

generic*-user-name
> Specify the generic name of the profile to be displayed. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified, then all users with names that begin with the generic name, and for which the user has authority, are shown. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete user name.

profile-name
> Specify the name of a profile to be displayed.

Profile type (PRFTYPE)

Specifies which enrollment status should be displayed.

*USER
> A list of i5/OS users and their enrollment status is displayed. From this display an alternate view is available which will show, for each user in this list, a list of i5/OS groups the user belongs to, provided the group is currently being enrolled into that server.

*GROUP
> A list of i5/OS groups and their enrollment status is displayed. An alternate view is available to display for each group in the list, those members of each group that are currently being enrolled into the server.

Server type (SVRTYPE)

Specifies which type of server to work with.

*NWSUSRA
> The server type from the network server user attributes (CHGNWSUSRA command) for the user profile running the WRKNWSENR command is used.

*NWSA
> The server type in the network server attributes (CHGNWSA command) is used.

*WINDOWS or *WINDOWSNT
> Specifies that a list of users and groups enrolled into Windows domains and local servers are displayed.
>
> **Note:** *WINDOWS should be used in V5R4 and later releases. The *WINDOWSNT value is supported for compatibility with releases prior to V5R4.

Server (SERVER)

Specifies which network servers to work with.

*ALL   All servers that have users enrolled are listed.

*NWSA
> The enrollment information for all the servers identified in the network server attributes is displayed.
>
> For *WINDOWS or *WINDOWSNT servers, the enrollment information for all servers defined by the WNTLCLSVRL parameter are displayed.

generic*-server-name
> Specify the generic name of the server.

server-name
> Specify the name of a specific server.

Domain (DOMAIN)

Specifies which Windows domains to work with.

*ALL   All domains that have users enrolled are listed.

*NWSA
> The enrollment information for all the Windows domains identified by the WNTDMNLST parameter in the system network server attributes are displayed.

*NONE
> No enrollment information is listed for any Windows domains. Only the enrollment information for local Windows servers is displayed based on the SERVER parameter.

generic*-domain-name
> Specify the generic name of Windows domains that have users enrolled.

'domain-name'
> Specify the name of a specific Windows domain that has users enrolled.

Examples

Example 1: Working with Windows User Enrollment

```
WRKNWSENR   SVRTYPE(*WINDOWS)  DOMAIN(DMN*)  SERVER(SRV*)
```

This command displays a list of all i5/OS users that the i5/OS user enrollment support has enrolled into all Windows domains whose name starts with 'DMN' and all local servers that start with 'SRV'.

Error messages

*ESCAPE Messages

CPFA45A
> Network server users not displayed.

Work with NWS Storage Spaces (WRKNWSSTG)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Network Server Storage Spaces (WRKNWSSTG) command works with network server storage spaces using the Work with Network Server Storage Spaces display. There are options available to create, delete, display, and print storage spaces. You can also add and remove links to network server descriptions. The copy option can be chosen to create and copy an existing storage space into a newly created one.

The Work with Network Server Storage Spaces display shows information about the format of the storage spaces (*NTFS, *FAT, *FAT32, *NTFSQR, *OPEN), their size, the network server descriptions to which they are linked (if any), the auxiliary storage pool they exist in, and, if linked, the drive sequence.

Parameters

Keyword	Description	Choices	Notes
NWSSTG	Network server storage space	*Generic name, name*, **<u>*ALL</u>**	Optional, Positional 1
NWSD	Network server description	*Name*	Optional, Positional 2

Network server storage space (NWSSTG)

Specifies the name of the network server storage spaces listed.

<u>*ALL</u>   All network server storage spaces listed.

generic-network-server-storage-space*
        Specify the generic name of the network server storage space listed.

network-server-storage-space
        Specify the name of the network server storage space listed.

Network server description (NWSD)

Specifies the name of the network server description for which storage spaces are listed. When this parameter is specified, only storage spaces linked to this network server description are shown.

Examples

```
WRKNWSSTG  NWSSTG(*ALL)  SERVER(SERVER1)
```

This command displays the Work with Network Server Storage Spaces panel, showing the list of storage spaces linked to network server SERVER1.

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Error messages

None

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Work with NWS Status (WRKNWSSTS)

The Work with Network Server Status (WRKNWSSTS) command displays a list of servers and their current status. Specific options are available to work with individual servers in the list. These options provide functions such as displaying active users, restarting a server, displaying statistics, and so on. The display that appears differs depending on the value of the SVRTYPE parameter.

1. If SRVTYPE(*ALL) is specified, the display shows options and information relevant for ALL the server types existing on the System i5.

2. If SVRTYPE(*NWSUSRA) is specified, the display shown depends on the value specified for the SVRTYPE parameter in the network server user attributes (CHGNWSUSRA command) for the current user.

3. If SVRTYPE(*NWSA) is specified, the display shown depends on the value specified for the SVRTYPE parameter in the network server attributes (CHGNWSA command).

4. If SVRTYPE(*WINDOWS) or (*WINDOWSNT) is specified, the display shows options and information relevant to local NWSDs that were created as Windows servers.

5. If SVRTYPE(*LINUX) or (*AIX) is specified, the display shows options and information relevant for NWSDs running Linux or AIX operating systems. If the NWSD server type is *GUEST, then the Status is shown only. The Display details option will not be available to be selected.

Parameters

Keyword	Description	Choices	Notes
SERVER	Server	*Character value*, ***ALL**	Optional, Positional 1
SVRTYPE	Server type	***ALL**, *NWSUSRA, *NWSA, *WINDOWS, *LINUX, *AIX, *WINDOWSNT	Optional

Server (SERVER)

Specifies the name of a server.

*ALL   All local servers and all remote 'active' servers are displayed.

generic*-server-name
        Specify the generic name of the server.

server-name
        Specify the name of a specific server.

Server type (SVRTYPE)

Specifies which type of server to work with. The Work with Network Server Status display lists Windows, Linux, or AIX servers.

*ALL   A list of ALL existing server types is displayed.

*NWSUSRA
> The type of servers to list is specified in the network server user attributes (CHGNWSUSRA command).

*NWSA
> The type of servers to list is specified in the network server attributes (CHGNWSA command).

*WINDOWS or *WINDOWSNT
> A list of Windows servers is displayed.
>
> **Note:** *WINDOWS should be used in V5R4 and later releases. The *WINDOWSNT value is supported for compatibility with releases prior to V5R4.

*LINUX or *AIX
> A list of NWSDs with Linux or AIX operating system is displayed.
>
> **Note:** If the NWSD server type is *GUEST, then the Status is shown only. Display details option is not available to be displayed.

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Examples

```
WRKNWSSTS   SERVER(SERVER2)  SVRTYPE(*WINDOWS)
```

This command displays the Work with Network Server Status panel for a Windows server named SERVER2.

```
WRKNWSSTS SVRTYPE(*ALL)
```

This command displays the Work with Network Server Status panel for ALL existing server types.

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Error messages

*ESCAPE Messages

CPFA451
> Server name too long.

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Work with Objects (WRKOBJ)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Objects (WRKOBJ) command shows a list of objects from one or more libraries.

The object name, object type, library name, object attribute, and short text description for the object are shown for each listed object. The data attributes and the actual data in the object are not shown. From this list, several object-oriented options can be performed.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the objects to which you have some authority will be shown on the display.
- To perform operations on the objects, you must have *USE authority to the command used by the operation, and the appropriate authority to the objects on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
OBJ	Object	*Qualified object name*	Required, Positional 1
	Qualifier 1: Object	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	
OBJTYPE	Object type	***ALL**, *ALRTBL, *AUTL, *BNDDIR, *CFGL, *CHTFMT, *CLD, *CLS, *CMD, *CNNL, *COSD, *CRG, *CRQD, *CSI, *CSPMAP, *CSPTBL, *CTLD, *DEVD, *DOC, *DTAARA, *DTADCT, *DTAQ, *EDTD, *EXITRG, *FCT, *FILE, *FLR, *FNTTBL, *FNTRSC, *FORMDF, *FTR, *GSS, *IGCDCT, *IGCSRT, *IGCTBL, *IMGCLG, *IPXD, *JOBD, *JOBQ, *JOBSCD, *JRN, *JRNRCV, *LIB, *LIND, *LOCALE, *MEDDFN, *MENU, *MODD, *MODULE, *MSGF, *MSGQ, *MGTCOL, *M36, *M36CFG, *NODL, *NODGRP, *NTBD, *NWID, *NWSCFG, *NWSD, *OUTQ, *OVL, *PAGDFN, *PAGSEG, *PDFMAP, *PDG, *PGM, *PNLGRP, *PRDAVL, *PRDDFN, *PRDLOD, *PSFCFG, *QMFORM, *QMQRY, *QRYDFN, *RCT, *S36, *SBSD, *SCHIDX, *SPADCT, *SQLPKG, *SQLUDT, *SRVPGM, *SVRSTG, *SSND, *TBL, *TIMZON, *USRIDX, *USRPRF, *USRQ, *USRSPC, *VLDL, *WSCST	Optional, Positional 2

Object (OBJ)

Specifies the objects to be shown on the Work with Objects display.

This is a required parameter.

Qualifier 1: Object

*ALL   All objects of the object types specified for the **Object type (OBJTYPE)** parameter.

generic-name
> Specify the generic name of the object to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all objects that have names with the same prefix as the generic name are shown.

name   Specify the name of the object to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR
> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

> ```
> #CGULIB     #DSULIB     #SEULIB
> #COBLIB     #RPGLIB
> #DFULIB     #SDALIB
> ```

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

> ```
> QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
> QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
> QGPL38      QSYS2       QUSRINFSKR
> QMGTC       QSYS2xxxxx  QUSRNOTES
> QMGTC2      QS36F       QUSROND
> QMPGDATA    QUSER38     QUSRPOSGS
> QMQMDATA    QUSRADSM    QUSRPOSSA
> QMQMPROC    QUSRBRM     QUSRPYMSVR
> QPFRDATA    QUSRDIRCF   QUSRRDARS
> QRCL        QUSRDIRCL   QUSRSYS
> ```

> 1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
> 2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Object type (OBJTYPE)

Specifies the object type for objects to be shown.

*ALL   All objects are shown that have an object name that matches the value specified for the **Object (OBJ)** parameter.

object-type
    Specify the object type for objects to be listed, such as command (*CMD), file (*FILE), or program (*PGM). To see a complete list of object types when prompting this command, position the cursor on the field for this parameter and press F4 (Prompt).

Examples

```
WRKOBJ   OBJ(X/PAY*)   OBJTYPE(*ALL)
```

This command displays the Work with Objects panel, showing all objects for which you have authority whose names begin with the letters 'PAY' and are located in library X.

Error messages

*ESCAPE Messages

CPF9809
    Library &1 cannot be accessed.

CPF9810
    Library &1 not found.

CPF9820
    Not authorized to use library &1.

Work with Object Locks (WRKOBJLCK)

The Work with Object Locks (WRKOBJLCK) command allows you to work with the object lock requests in the system for a specified object. You can work with both held locks and locks waiting to be applied.

Restrictions:

1. The user must have *EXECUTE authority to the library containing the object and to the ASP device description. Otherwise, the user must have *JOBCTL special authority.

2. This command does not show record locks for database files.

3. Work station message queues cannot be allocated, and therefore, they will not have any locks. A work station message queue is associated with a work station device description of the same name. Therefore, to determine why an operation that requires the work station message queue to be allocated does not work, the user should see if there are any locks on the device description of the same name.

Parameters

Keyword	Description	Choices	Notes
OBJ	Object	*Qualified object name*	Required, Positional 1
	Qualifier 1: Object	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
OBJTYPE	Object type	*ALRTBL, *AUTL, *BNDDIR, *CFGL, *CHTFMT, *CLD, *CLS, *CMD, *CNNL, *COSD, *CRG, *CRQD, *CSI, *CSPMAP, *CSPTBL, *CTLD, *DEVD, *DOC, *DTAARA, *DTADCT, *DTAQ, *EDTD, *EXITRG, *FCT, *FILE, *FLR, *FNTRSC, *FNTTBL, *FORMDF, *FTR, *GSS, *IGCDCT, *IGCSRT, *IGCTBL, *IMGCLG, *IPXD, *JOBD, *JOBQ, *JOBSCD, *JRN, *JRNRCV, *LIB, *LIND, *LOCALE, *MEDDFN, *MENU, *MGTCOL, *MODD, *MODULE, *MSGF, *MSGQ, *M36, *M36CFG, *NODL, *NTBD, *NWID, *NWSCFG, *NWSD, *OUTQ, *OVL, *PAGDFN, *PAGSEG, *PDFMAP, *PDG, *PGM, *PNLGRP, *PRDAVL, *PRDDFN, *PRDLOD, *PSFCFG, *QMFORM, *QMQRY, *QRYDFN, *SBSD, *SCHIDX, *SPADCT, *SQLPKG, *SQLUDT, *SRVPGM, *SSND, *S36, *TBL, *TIMZON, *USRIDX, *USRPRF, *USRQ, *USRSPC, *VLDL, *WSCST	Required, Positional 2
MBR	Member	*Name*, ***NONE**, *FIRST, *ALL	Optional, Positional 3
ASPDEV	ASP device	*Name*, *****, *SYSBAS	Optional
OUTPUT	Output	*****, *PRINT	Optional

Object (OBJ)

Specifies the name and library of the object for which locks are being displayed.

This is a required parameter.

Qualifier1: Object

name   Specify the name of the object.

Qualifier2: Library

*LIBL   All libraries in the thread's library list are searched until a match is found.

*CURLIB
> The current library for the thread is used to locate the object. If no library is specified as the current library for the thread, the QGPL library is used.

name   Specify the name of the library where the object is located.

If a file member is specified for a file, and the file's library value is *LIBL, the first occurrence of the file in the thread's library search list is searched for the member. For object types that exist only in library QSYS (for example, *DEVD), QSYS and *LIBL are the only library names that are accepted. When specifying a value other than * for the **ASP device (ASPDEV)**, *LIBL can not be specified.

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Object type (OBJTYPE)

Specifies the object type of the object for which locks are being displayed. Specify the predefined value that identifies the object type.

This is a required parameter.

Object-type
> Specify the object type. Refer to the **Object type (OBJTYPE)** parameter of the Work with Objects (WRKOBJ) command for more information.

<div align="right">Top</div>

Member (MBR)

Specifies the member name of a database file. This parameter is valid only when a database file has been specified for the **Object (OBJ)** parameter.

*NONE
> No member locks are displayed, but file level locks are displayed. (The display of member locks for all the members in the file can be requested from the file locks display.)

*FIRST
> The first member in the named database file is displayed.

*ALL   Member locks for all the members in the database file are displayed.

name   Specify the name of the database file member for which locks are displayed.

<div align="right">Top</div>

ASP device (ASPDEV)

Specifies the auxiliary storage pool (ASP) device name where the library that contains the object (specified for the **Object (OBJ)** parameter) is located. If the object's library resides in an ASP that is not part of the library name space associated with the thread, this parameter must be specified to ensure the correct object is used as the target of the operation.

* The ASPs that are currently part of the thread's library name space will be searched to locate the object. This includes the system ASP (ASP number 1), all configured basic user ASPs (ASP numbers 2-32), and, if the thread has an ASP group, all independent ASPs in the ASP group.

*SYSBAS
The system ASP and all basic user ASPs will be searched to locate the object. No independent ASPs will be searched, even if the thread has an ASP group.

name The device name of the independent ASP to be searched to locate the object. The independent ASP must have been activated (by varying on the ASP device) and have a status of 'Active' or 'Available'. The system ASP and basic user ASPs will not be searched.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
The output is printed with the job's spooled output.

Examples

Example 1: Printing Object Lock Information for a File
```
WRKOBJLCK   OBJ(*LIBL/LOCKEDFILE)  OBJTYPE(*FILE)
            MBR(LOCKEDMBR) OUTPUT(*PRINT)
```

This command prints the lock information for the member named LOCKEDMBR in the file named LOCKEDFILE. The file is located using the library list.

Example 2: Working With Object Locks for a Library on an Independent ASP
```
WRKOBJLCK   OBJ(QSYS/LIBNAME) OBJTYPE(*LIB) ASPDEV(PRODXX)
```

This command allows you to work with the lock information for the library LIBNAME located on the independent auxiliary storage pool (ASP) device PRODXX.

Error messages

CPFB8ED

> Device description &1 not correct for operation.

CPF0919

> Library in library list damaged.

CPF0924

> Cannot use library in library list.

CPF0935

> Cannot use member name for object type *&2.

CPF0939

> Object &3 type &2 was not found in library &4.

CPF0948

> Member &1 file &3 in library &4 not found.

CPF095B

> Value for ASPDEV not valid with special value for library.

CPF0950

> &2 &3 in library &4 not found.

CPF0951

> QSYS only valid library for object type &2.

CPF0952

> Library &4 not found for &2 &3.

CPF0953

> Library in library list previously deleted.

CPF0958

> &2 &3 in library &4 saved with storage freed.

CPF0988

> Library &4 damaged.

CPF1093

> Override of file device type not valid.

CPF3285

> Damage found on file &1 in library &3.

CPF9803

> Cannot allocate object &2 in library &3.

CPF9804

> Object &2 in library &3 damaged.

CPF9814

> Device &1 not found.

CPF9820

> Not authorized to use library &1.

CPF9825

> Not authorized to device &1.

CPF9845

> Error occurred while opening file &1.

CPF9846

        Error while processing file &1 in library &2.

CPF9847

        Error occurred while closing file &1 in library &2.

CPF9850

        Override of printer file &1 not allowed.

CPF9851

        Overflow value for file &1 in &2 too small.

CPF9871

        Error occurred while processing.

Work with Objects by Owner (WRKOBJOWN)

The Work with Objects by Owner (WRKOBJOWN) command is used to manage objects for any user profile. This command displays objects owned by a user profile and performs the following:

- Edit object authority
- Delete the object
- Display object authority
- Rename the object
- Display the object's description
- Change the ownership of the object

Restrictions: You must have read (*READ) authority to the specified user profile.

Parameters

Keyword	Description	Choices	Notes
USRPRF	User profile	*Name*, ***CURRENT**	Optional, Positional 1

User profile (USRPRF)

Specifies the user profile whose owned objects are to be shown.

*CURRENT
Objects owned by the user profile that is running the WRKOBJOWN command are shown.

name Specify the name of the user profile whose owned objects are to be shown.

Examples

Example 1: Working With Objects Owned by the Current User Profile

```
WRKOBJOWN   USRPRF(*CURRENT)
```

This command displays the Work with Objects by Owner panel, showing a list of the objects owned by the user running this command.

Example 2: Working With Objects Owned by a User Profile

```
WRKOBJOWN   USRPRF(BARTH)
```

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This command displays the Work with Objects by Owner panel, showing a list of the objects owned by user profile BARTH.

Error messages

*ESCAPE Messages

CPFA0AB

Operation failed for object. Object is &1.

CPFA1BF

Object &1 is not accessible.

CPFA1C0

Object &1 is not accessible.

CPF2204

User profile &1 not found.

CPF2213

Not able to allocate user profile &1.

CPF2217

Not authorized to user profile &1.

Work Objects by Primary Group (WRKOBJPGP)

The Work with Objects by Primary Group (WRKOBJPGP) command is used to manage objects for which a user is the primary group. This command displays objects for which a user is the primary group and performs the following:

- Edit object authority
- Delete the object
- Display object authority
- Rename the object
- Display the object's description
- Change the primary group of the object

Restrictions:

- You must have read (*READ) authority to the specified primary group profile.

Parameters

Keyword	Description	Choices	Notes
PGP	Primary group	*Name*	Required, Positional 1

Primary group (PGP)

Specifies the group profile whose objects are to be worked with.

This is a required parameter.

name   Specify the name of the group profile.

Examples

```
WRKOBJPGP    PGP(GROUP01)
```

This command displays the Work with Objects by Primary Group panel, showing a list of the objects for which group profile GROUP01 is the primary group.

Error messages

CPF2204

  User profile &1 not found.

CPF2213

  Not able to allocate user profile &1.

CPF2217

  Not authorized to user profile &1.

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Work Objects by Private Auth (WRKOBJPVT)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Objects by Private Authority (WRKOBJPVT) command is used to manage objects for which a user has private authority. This command displays objects for which a user has private authority and performs the following:

- Edit object authority
- Delete the object
- Display object authority
- Rename the object
- Display the object's description

Note: This command may run a long time if the specified user profile has private authority to a large number of objects.

Restrictions:

- You must have read (*READ) authority to the specified user profile.

Parameters

Keyword	Description	Choices	Notes
USRPRF	User profile	*Simple name*, ***CURRENT**	Optional, Positional 1

User profile (USRPRF)

Specifies the user profile whose privately authorized objects are to be shown.

*CURRENT
    Objects to which the user profile that is running the WRKOBJPVT command is privately authorized are shown.

name   Specify the name of the user profile.

Examples

```
WRKOBJPVT    USRPRF(EMP956)
```

This command displays the Work with Objects by Private Authority panel, showing a list of the objects for which user profile EMP956 has private authority.

Error messages

*ESCAPE Messages

CPF2204

User profile &1 not found.

CPF2213

Not able to allocate user profile &1.

CPF2217

Not authorized to user profile &1.

Work with OptiConnect Activity (WRKOPCACT)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with OptiConnect Activity (WRKOPCACT) command allows you to view information about database transactions, fiber optic bus activity, and connection status for client and server systems. When this command is run, three views of the Work with OptiConnect Activity display are available.

Options are available from the Work with OptiConnect Activity display to vary on or vary off systems or resources in the multisystem fiber optic network.

There are no parameters for this command.

Parameters

None

Examples

```
WRKOPCACT
```

This command shows the Work with OptiConnect Activity panel.

Error messages

Unknown

Work with Optical Directories (WRKOPTDIR)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Optical Directories (WRKOPTDIR) command displays a list of optical directories and provides options to create, to copy, to delete, and to display or print a list of directories and their attributes. This command also allows you to work with files in the directories.

Restrictions:

1. To use this command you must have at least *USE authority to the authorization list securing the volumes containing the optical directories.
2. You must have *CHANGE authority to create, copy, or delete optical directories.
3. If this command is issued for a directory on an optical volume which is in a remote optical server, only the following can be specified:
   - DIR(optical-directory-name)
   - VOL(volume-identifier)
   - SORT(*DIR)
   - SLTLVL(1).

Parameters

Keyword	Description	Choices	Notes
DIR	Optical directory	*Character value*, ***ALL**	Optional, Positional 1
VOL	Volume identifier	*Character value*, ***ALL**	Optional, Positional 2
SORT	Sort by	***DATE**, *DIR	Optional, Positional 3
SLTLVL	Select directory level	*Integer*, **1**, *ALL	Optional
STRDATE	Starting date	*Date*, ***AVAIL**	Optional

Optical directory (DIR)

Specifies the optical directories to be listed.

*ALL   All directories in the specified optical volume are listed.

optical-directory-name
        Specify the name of a directory.

Volume identifier (VOL)

Specifies the identifier of the volume that contains the directories specified on the DIR parameter.

*ALL   Optical volumes in direct-attached optical devices are listed.

volume-identifier
> Specify the volume identifier of the volume to search.

Sort by (SORT)

Specifies how the output for each volume is sorted.

Note: If the optical volume was initialized as a backup volume, this parameter is ignored.

*DATE
> The output list is sorted in order by the date that the volume was created, beginning with the most recent date.

*DIR   The output list is sorted in alphabetical order by directory name.

Select directory level (SLTLVL)

Specifies the number of levels of the directory structure to include in the list when SORT(*DIR) is specified.

Note: If the optical volume was initialized as a backup volume, this parameter is ignored.

1   Only first level directories are listed.

*ALL   All directories are listed.

select-directory-level
> Specify the number of subdirectory levels for the specified directory. Valid values range from 1 through 32767.

Starting date (STRDATE)

Specifies the starting date for the list when SORT(*DATE) is specified. Only directories created on or before the starting date are listed.

Note: If the optical volume was initialized as a backup volume, this parameter is ignored.

*AVAIL
> The directories created on all available dates are included in the output list.

starting-date
> Specify the starting date.

Examples

```
WRKOPTDIR   VOL(VOL01)
```

This command displays the Work with Optical Directories panel, showing a list of all optical directories on the volume VOL01 sorted by the date they were created.

Error messages

*ESCAPE Messages

OPT1205
> Directory not found.

OPT1215
> Directory cannot be deleted.

OPT1317
> Directory name is too long.

OPT1320
> Optical volume &1 in use.

OPT1325
> Optical volume format not recognized.

OPT1331
> Optical volume &1 not found.

OPT1340
> Optical volume &1 not initialized.

OPT1805
> Error accessing optical volume index file.

OPT1810
> Error accessing optical directory index file.

OPT1815
> Internal program error occurred.

OPT2301
> Internal system object in use.

*STATUS Messages

OPT1937
> Unable to display all requested files.

Work with Optical Files (WRKOPTF)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Optical Files (WRKOPTF) command displays a list of optical files on the system and provides options to copy, to delete, to rename and to display or print a list of optical files and their attributes.

Restrictions:

1. To use this command you must have *USE authority to the authorization list securing the volume containing the optical files.
2. If this command is issued for an optical volume which is in a remote optical server, only the following can be specified:
   - DIR(optical-directory-name)
   - FILE(*ALL)
   - FILE(file-name)
   - FILE(generic*-file-name)

Parameters

Keyword	Description	Choices	Notes
VOL	Volume identifier	*Character value*	Required, Positional 1
DIR	Directory	*Character value*, *ALL	Required, Positional 2
FILE	File	*Character value*, *SELECT, ***ALL**	Optional, Positional 3
SLTFILE	Select files	*Element list*	Optional
	Element 1: From file	*Character value*, ***ALL**	
	Element 2: To file	*Character value*	
SLTDATE	Select date	*Element list*	Optional
	Element 1: Date type	***CREATED**, *MODIFIED	
	Element 2: Starting date and time	*Element list*	
	Element 1: Starting time	*Time*, ***AVAIL**	
	Element 2: Starting date	*Date*, ***BEGIN**	
	Element 3: Ending date and time	*Element list*	
	Element 1: Ending time	*Time*, ***AVAIL**	
	Element 2: Ending date	*Date*, ***END**	

Volume identifier (VOL)

Specifies the identifier of the optical volume that contains the files to be listed.

Directory (DIR)

Specifies the optical directory that contains the files specified to be listed, beginning with the root directory of the volume.

This is a required parameter.

*ALL   All directories on the specified optical volume are listed. If DIR(*ALL) is specified, only optical files contained in the root directory are listed.

directory-name
>   Specify the name of a directory.

File (FILE)

Specifies the file or files to be listed.

*ALL   All files in the specified directory are listed.

*SELECT
>   The files in the range specified on the SLTFILE parameter are listed.
>
>   **Note:** This value is ignored for volumes in remote optical servers.

file-name
>   Specify the name of a file.

generic*-file-name
>   Specify the generic name of the file you want to work with. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. The asterisk substitutes for any valid characters. A generic name specifies all objects with names that begin with the generic prefix for which the user has authority. If an asterisk is not included with the generic (prefix) name, the system assumes it to be the complete object name.

Select files (SLTFILE)

Specifies the range of files to be listed.

Notes:
1. This parameter is valid only if FILE(*SELECT) is specified and is ignored if the optical volume was initialized as a backup volume.
2. This parameter is not valid for remote optical servers.

Element 1: From file

*ALL   All files in the specified directory are selected.

from-file
>Specify the name of the first file in the name range to be selected.

generic*-file-name
>Specify the generic name of the optical files to be selected.

Element 2: To file

to-file Specify the name of the last file in the name range.

>**Note:** This value is ignored when the from-file value is *ALL or generic*.

Select date (SLTDATE)

Specifies the date and the time range of the files to be selected.

Notes:

1. This parameter is valid only if FILE(*SELECT) is specified and is ignored if the optical volume was initialized as a backup volume.
2. This parameter is not valid for remote optical servers.

Element 1: Date type

*CREATED
>The files are selected by the dates on which they were created.

*MODIFIED
>The files are selected by the dates on which they were changed.

Element 2: Starting date and time

>**Element 1: Starting time**

>***AVAIL**
>>The time range includes all possible times before the end time.

>*start-time*
>>Specify the earliest time in the time range.

>**Element 2: Starting date**

>***BEGIN**
>>The date of the oldest file is the starting date.

>*start-date*
>>Specify the earliest date in the date range.

Element 3: Ending date and time

>**Element 1: Ending time**

>***AVAIL**
>>The time range includes all times after the starting time.

end-time
>   Specify the last time in the time range.

Element 2: Ending date

*END   The date of the newest file is the ending date.

end-date
>   Specify the last date in the date range.

Examples

Example 1: Displaying Optical Files in a Root Directory

```
WRKOPTF   VOL(VOL01)  DIR(*ALL)
```

This command displays a list of all optical files in the root directory on the optical volume VOL01.

Example 2: Displaying Optical Files in a Specific Directory

```
WRKOPTF   VOL(VOL02)  DIR('/DIR1')  FILE(*ALL)
```

This command displays a list of all optical files in the directory DIR1 on the optical volume VOL02.

Example 3: Displaying Optical Files Created on Specific Dates

```
WRKOPTF   VOL(VOL03)  DIR('/DIR2')
          FILE(*SELECT)  SLTFILE(*ALL)
          SLTDATE(*CREATED ('12:01:00' '1/1/94')
                           ('23:59:59' '12/31/94'))
```

This command displays a list of all optical files in the directory DIR2 on the volume VOL03 created between 12:01:00 on January 1, 1994 and 23:59:59 on December 31, 1994.

Error messages

*ESCAPE Messages

OPT0159
>   Beginning selection is greater then ending selection.

OPT1115
>   File not found.

OPT1205
>   Directory not found.

OPT1212
> Directory in use.

OPT1220
> File or directory name already exists.

OPT1224
> Path length exceeds the maximum of 256 bytes.

OPT1317
> Directory name is too long.

OPT1320
> Optical volume &1 in use.

OPT1325
> Optical volume format not recognized.

OPT1330
> Optical volume not found or not useable.

OPT1331
> Optical volume &1 not found.

OPT1340
> Optical volume &1 not initialized.

OPT1360
> Media directory corrupted on optical volume &1.

OPT1460
> Optical volume &1 is not in an optical device.

OPT1463
> Operation not completed, optical volume is not a primary volume.

OPT1489
> Volume parameter is not permitted for device &1.

OPT1530
> &1 does not represent a valid optical device.

OPT1555
> Optical device &1 in use.

OPT1605
> Media or device error occurred.

OPT1640
> Error occurred reading files or directories.

OPT1790
> Operation not allowed or conflicts with another request.

OPT1805
> Error accessing optical volume index file.

OPT1810
> Error accessing optical directory index file.

OPT1815
> Internal program error occurred.

OPT1820
> Internal error occurred on optical device &1.

OPT1821

> Error occurred on optical device &1.

OPT1825

> Optical indexes are incorrect for optical device &1.

OPT1860

> Request to optical device &1 failed.

OPT1861

> No device description configured for resource &1.

OPT1862

> No active device description for resource &1.

OPT1863

> Optical libraries need to be reclaimed.

OPT1872

> Optical request timed out or was cancelled.

OPT2301

> Internal system object in use.

OPT7740

> User not authorized to object &2 in library &3 type &4.

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Work with Optical Volumes (WRKOPTVOL)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Optical Volumes (WRKOPTVOL) command displays a list of optical volumes and provides options to:

- add an optical cartridge
- remove an optical cartridge
- change optical volume attributes
- display optical volume attributes
- print optical volume attributes
- copy a volume
- initialize a volume
- rename a volume
- delete a volume entry

Parameters

Keyword	Description	Choices	Notes
DEV	Optical device	*Name*, ***ALL**	Optional, Positional 1
VOL	Volume identifier	*Character value*, ***ALL**, *BACKUP, *INDRIVE, *REMOVED	Optional, Positional 2
CSI	Side information	*Character value*, ***ALL**, *NONE	Optional
RTVEXTINFO	Retrieve extended information	***NO**, *YES	Optional

Optical device (DEV)

Specifies the optical device from which the volumes are listed.

*ALL   The volumes in all optical devices are listed.

optical-device-name
        Specify the name of an optical device from which the volumes are listed.

Volume identifier (VOL)

Specifies the optical volume identifiers which are listed.

*ALL   All optical volume identifiers in the specified optical devices are listed.

*BACKUP
> The optical volumes in the specified optical devices whose type is backup are listed.

*INDRIVE
> Only the volumes which are currently in a drive for the specified optical device are listed.

*REMOVED
> The volumes removed from optical libraries but whose information was kept in the optical index database files are listed.

volume-identifier
> Specify the identifier of a specific volume to be listed.

Side information (CSI)

Specifies the communications side information objects representing the optical servers in the optical configuration from which the volumes are listed. This parameter is valid only when DEV(*ALL) is specified.

*ALL   The names of volumes for all remote optical servers are listed.

*NONE
> No volumes are listed for remote optical servers.

communications-side-information-object-name
> Specify the name of the communications side information object representing the optical server for which volumes are listed.

Retrieve extended information (RTVEXTINFO)

Specifies whether extended volume information, such as location of the volume and the percentage of the volume used, is retrieved.

*NO   No extended volume information is retrieved.

*YES   The extended volume information is retrieved.

Examples

Example 1: Displaying Optical Volumes in an Optical Device
```
WRKOPTVOL   DEV(OPT01)
```

This command displays the Work with Optical Volumes panel, showing a list of all optical volumes in the optical device OPT01.

Example 2: Displaying Optical Volumes in a Remote Server
```
WRKOPTVOL   DEV(*ALL)  VOL(*ALL)  CSI(LAN01)
```

This command displays the Work with Optical Volumes panel, showing a list of all optical volumes in the optical server LAN01.

Error messages

*ESCAPE Messages

OPT1530

&1 does not represent a valid optical device.

OPT1805

Error accessing optical volume index file.

OPT1815

Internal program error occurred.

OPT1860

Request to optical device &1 failed.

OPT2301

Internal system object in use.

Work with Order Information (WRKORDINF)

The Work with Order Information (WRKORDINF) command lets you:

- automatically create an order information file for the system each time the command is run
- copy the order information files to selected media
- copy the order information files from selected media
- send order information files for this or any other System i system to IBM

Restrictions:

1. To use this command, you must be signed on as QSYSOPR or QSRV, or have *ALLOBJ authority.
2. This command is shipped with public *EXCLUDE authority.

There are no parameters for this command.

Parameters

None

Examples

```
WRKORDINF
```

This command displays the Work with Order Information menu.

Error messages

None

Work with Order Requests (WRKORDRQS)

The Work with Order Requests (WRKORDRQS) command manages the order log on the system. The order assistance requests are created with the Request Order Assistance (RQSORDAST) command and logged in the order log. Using the WRKORDRQS command you can display, send, answer, delete, and print order assistance requests.

Within an APPN network, the WRKORDRQS command sends and answers order assistance requests to other systems.

There are no parameters for this command.

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Parameters

None

Top

Examples

WRKORDRQS

This command displays the Work with Order Requests panel, showing the list of previously submitted order assistance requests. The first item in the list is the most recently updated item.

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Error messages

None

Top

Work with Output Queue (WRKOUTQ)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Output Queues (WRKOUTQ) command allows the user to display and work with either the overall status of all output queues or all output queues that match the qualified generic name specified and to which the user is authorized, or the detailed status of a specific output queue. The status of the queues may change while the command is being run.

Parameters

Keyword	Description	Choices	Notes
OUTQ	Output queue	Single values: ***ALL** Other values: *Qualified object name*	Optional, Positional 1
	Qualifier 1: Output queue	*Generic name, name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *ALL	
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Output queue (OUTQ)

Specifies either that the status of all output queues or all output queues that match the qualified generic name specified is shown, or specifies the qualified name of a single output queue for which the status is shown.

Note: When a generic output queue name is specified and qualified with a library name, the overall status of all output queues that match the generic name is shown even if there is only one output queue that matches the generic name.

Single values

*ALL   A list of all output queues is displayed with information about each output queue. If *ALL is specified, no value can be specified for a library name because *ALL provides a list of all output queues in every library on the system.

Qualifier 1: Output queue

generic-name
     Specify the generic name of the output queues whose detailed status information are to be displayed. A list of all spooled files on the output queue is displayed with information about each spooled file.

name   Specify the name of the output queue whose detailed status information is to be displayed. A list of all spooled files on the output queue is displayed with information about each spooled file.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB

> The current library for the job is used to locate the output queue.

*ALL   All libraries in the system, including QSYS, are searched.

> **Note:** When *ALL is specified for the library, the overall status of the output queues is shown even if only one output queue is found.

name   Specify the name of the library where the output queue is located.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or is printed with the job's spooled output on a printer.

*   The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT

> The output is printed with the job's spooled output on a printer.

Examples

Example 1: Working with Status Information for Specific Output Queue

```
WRKOUTQ    OUTQ(QGPL/QPRINT)
```

This command displays the Work with Output Queue panel for output queue QPRINT in library QGPL. Each spooled file on the QPRINT output queue is shown.

Example 2: Searching for Output Queues Using a Generic Name

```
WRKOUTQ    OUTQ(QGPL/QPRI*)
```

This command displays the Work with All Output Queues panel, showing a list of all output queues whose names start with the letters 'QPRI' and exist in the QGPL library.

Error messages

*ESCAPE Messages

CPF2207

> Not authorized to use object &1 in library &3 type *&2.

CPF3302

> Override of print file &1 to file &2 not valid.

CPF3330

> Necessary resource not available.

CPF3357

  Output queue &1 in library &2 not found.

CPF7D41

  Error occurred while logging order assistance request.

CPF7D42

  Error occurred while performing database operation.

CPF9845

  Error occurred while opening file &1.

CPF9846

  Error while processing file &1 in library &2.

CPF9871

  Error occurred while processing.

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Work with OUTQ Description (WRKOUTQD)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Output Queue Description (WRKOUTQD) command shows the description of the specified output queue. The description of the queue may change while the command is being run.

Parameters

Keyword	Description	Choices	Notes
OUTQ	Output queue	*Qualified object name*	Required, Positional 1
	Qualifier 1: Output queue	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
OUTPUT	Output	<u>*</u>, *PRINT	Optional, Positional 2

Output queue (OUTQ)

Specifies the output queue whose description is to be displayed.

This is a required parameter.

Qualifier 1: Output queue

name   Specify the name of the output queue whose description is displayed.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
          The current library for the job is used to locate the output queue.

name   Specify the name of the library where the output queue is located.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output on a printer.

<u>*</u>   The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT
          The output is printed with the job's spooled output on a printer.

Examples

```
WRKOUTQD    OUTQ(QGPL/QPRINT)
```

This command displays the Work with Output Queue Description panel for the output queue named QPRINT which is in the QGPL library.

Error messages

*ESCAPE Messages

CPF2150
> Object information function failed.

CPF2151
> Operation failed for &2 in &1 type *&3.

CPF2207
> Not authorized to use object &1 in library &3 type *&2.

CPF3302
> Override of print file &1 to file &2 not valid.

CPF3330
> Necessary resource not available.

CPF3357
> Output queue &1 in library &2 not found.

CPF7D41
> Error occurred while logging order assistance request.

CPF7D42
> Error occurred while performing database operation.

CPF9845
> Error occurred while opening file &1.

CPF9846
> Error while processing file &1 in library &2.

CPF9871
> Error occurred while processing.

Work with Overlays (WRKOVL)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Overlays (WRKOVL) command allows you to work with all of the overlay space objects from the system or user libraries (or both).

Parameters

Keyword	Description	Choices	Notes
OVL	Overlay	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Overlay	*Generic name, name*, ***ALL**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Overlay (OVL)

Specifies the overlay to work with. A specific overlay or a generic overlay can be specified.

This is a required parameter.

Qualifier 1: Overlay

*ALL   All overlays are worked with.

generic-name
> Specify the generic name of the overlays to work with. A generic name can be specified as a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all overlays that have names with the same prefix as the generic overlay name are worked with.

name   Specify the name of the overlay to work with.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the job is searched for overlays to work with. If no library is specified as the current library for the job, QGPL is used.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX      QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL       QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38     QSYS2       QUSRINFSKR
QMGTC      QSYS2xxxxx  QUSRNOTES
QMGTC2     QS36F       QUSROND
QMPGDATA   QUSER38     QUSRPOSGS
QMQMDATA   QUSRADSM    QUSRPOSSA
QMQMPROC   QUSRBRM     QUSRPYMSVR
QPFRDATA   QUSRDIRCF   QUSRRDARS
QRCL       QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify a library name. Only the library named in this parameter is searched for overlays to work with.

Examples

```
WRKOVL   OVL(*LIBL/OV*)
```

This command searches the library list to find the overlay objects whose names begin with the letters 'OV'. All overlay objects with names beginning with 'OV' are shown on the Work with Overlays panel. If no overlay objects beginning with 'OV' exist in the library list, the WRKOVL display is shown with a message indicating that an object matching the specified name cannot be found.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work with Page Definitions (WRKPAGDFN)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work With Page Definitions (WRKPAGDFN) command displays a list of page definitions. From the display, you can create or delete a page definition, display the name and attributes of a page definition, or change the description of a page definition.

Parameters

Keyword	Description	Choices	Notes
PAGDFN	Page definition	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Page definition	*Generic name, name*, ***ALL**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Page definition (PAGDFN)

Specifies the page definition to be listed on the Work with Page Definitions display. Only those page definitions for which you have *READ authority are shown.

This is a required parameter.

Qualifier 1: Page definition

*ALL   All page definitions are listed.

generic-name
> Specify the generic name of the page definitions to be listed. A generic name is a character string that contains one or more characters followed by an asterisk (*).

name   Specify the name of the page definition. If *LIBL or *USRLIBL is specified as the library name, only the first page definition found with the specified name is listed.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*USRLIBL
> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*CURLIB
> Only the current library is searched. If no current library entry exists in the library list, QGPL is used.

*ALL   All libraries in the system, including QSYS, are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB    #DSULIB    #SEULIB
#COBLIB    #RPGLIB
#DFULIB    #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX      QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL       QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38     QSYS2       QUSRINFSKR
QMGTC      QSYS2xxxxx  QUSRNOTES
QMGTC2     QS36F       QUSROND
QMPGDATA   QUSER38     QUSRPOSGS
QMQMDATA   QUSRADSM    QUSRPOSSA
QMQMPROC   QUSRBRM     QUSRPYMSVR
QPFRDATA   QUSRDIRCF   QUSRRDARS
QRCL       QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

name   Specify the name of the library to be searched.

Examples

```
WRKPAGDFN    PAGDFN(*CURLIB/P1DFLT)
```

This command searches the current library for the page definition P1DFLT. If P1DFLT does not exist, the Work with Page Definitions display shows a message indicating that an object matching the specified name cannot be found.

Error messages

None

Work with Page Segments (WRKPAGSEG)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Page Segments (WRKPAGSEG) command allows you to work with all of the page segment space objects from the system or user libraries (or both).

Parameters

Keyword	Description	Choices	Notes
PAGSEG	Page segment	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Page segment	*Generic name, name*, ***ALL**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Page segment (PAGSEG)

Specifies the qualified name of the page segment to work with. A specific page segment or a generic page segment can be specified. Either type can be optionally qualified by a library name.

This is a required parameter.

Qualifier 1: Page segment

*ALL   All page segments are worked with.

generic-name
Specify the generic name of the page segments to work with. A generic name can be specified as a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all page segments that have names with the same prefix as the generic page segment name are worked with.

name   Specify the name of the page segment to work with.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
The current library for the job is searched for page segments to work with. If no library specified as the current library for the job, QGPL is used.

*USRLIBL
If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB   QUSRVI
QGPL        QSRVAGT     QUSRIJS     QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify a library name. Only the library named in this parameter is searched for page segments to work with.

Examples

Example 1: Working with a Specific Page Segment

```
WRKPAGSEG   PAGSEG(MYLIB/PAGSEG1)
```

This commad searches library MYLIB for a page segment with the name PAGSEG1. If PAGSEG1 is found, the information for that page segment is shown. If a PAGSEG1 does not exist in MYLIB, a message is shown on the Work with Page Segments display indicating that an object to match the specified name was not found.

Example 2: Searching the Library List for a Page Segment

```
WRKPAGSEG   PAGSEG(*LIBL/PAGSEG1)
```

This command searches the library list for the page segment named PAGSEG1. Only the first occurrence of PAGSEG1 is listed.

Error messages

CPF9809

>Library &1 cannot be accessed.

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Work with Protocol Table Entry (WRKPCLTBLE)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Protocol Table Entry (WRKPCLTBLE) command is used to show a list of protocol table entries from which you can add, remove, display or print the entries. You can also select to print the list.

The protocol table is used to manage a list of protocols used in the Internet. The **Internet** is a collection of networks functioning as a single, cooperative, and virtual network using Transmission Control Protocol/Internet Protocol to support peer-to-peer connectivity.

The protocol table is shipped with a list of some valid protocols.

Restrictions:

- You must have input/output system configuration (*IOSYSCFG) special authority to add or remove entries using this command.

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Parameters

Keyword	Description	Choices	Notes
PROTOCOL	Protocol	*Character value*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

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Protocol (PROTOCOL)

Specifies the protocol entry with which you want to work.

*ALL All protocols in the table are shown or printed.

character-value
Specify the name of the protocol. All entries that match are shown or printed.

Top

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
The output is printed with the job's spooled output.

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Examples

```
WRKPCLTBLE
```

This command displays the Work with Protocol Table Entries panel, showing a list of all the protocol table entries. You can select to add, remove, display, or print the protocol table entries from this list.

Error messages

None

Work with PEX Definitions (WRKPEXDFN)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Performance Explorer Definition (WRKPEXDFN) command shows the user the list of existing Performance Explorer (PEX) definitions. You can add new definitions or display, remove, or change existing definitions.

Restrictions:

1. This command is shipped with public *EXCLUDE authority.
2. To use this command you must have *SERVICE special authority, or be authorized to the Service Trace function of i5/OS through iSeries Navigator's Application Administration support. The Change Function Usage (CHGFCNUSG) command, with a function ID of QIBM_SERVICE_TRACE, can also be used to change the list of users that are allowed to perform trace operations.
3. The following user profiles have private authorities to use the command:
   - QPGMR
   - QSRV

There are no parameters for this command.

Parameters

None

Examples

WRKPEXDFN

This command displays the Work with Performance Explorer Definitions panel, from which performance explorer (PEX) definitions can be added, changed or removed.

Error messages

None

Work with PEX Filters (WRKPEXFTR)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Performance Explorer Filter (WRKPEXFTR) command shows you a list of existing Performance Explorer filters. You can add new filters or display, remove, or change existing filters.

Restrictions:

1. This command is shipped with public *EXCLUDE authority.

2. To use this command you must have *SERVICE special authority, or be authorized to the Service Trace function of i5/OS through iSeries Navigator's Application Administration support. The Change Function Usage (CHGFCNUSG) command, with a function ID of QIBM_SERVICE_TRACE, can also be used to change the list of users that are allowed to perform trace operations.

3. The following user profiles have private authorities to use the command:

   - QPGMR
   - QSRV

There are no parameters for this command.

Parameters

None

Examples

WRKPEXFTR

This command displays the Work with Performance Explorer Filters panel, from which performance explorer (PEX) filters can be added or removed.

Error messages

None

Work with PF Constraints (WRKPFCST)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Physical File Constraints (WRKPFCST) command can be used to show a display from which you can change, remove, or display physical file constraints. You can work with specified types of constraint relationships that are defined for all physical files or a specified physical file.

Parameters

Keyword	Description	Choices	Notes
FILE	File	*Qualified object name*	Required, Positional 1
	Qualifier 1: File	*Name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *ALL	
TYPE	Constraint type	***ALL**, *CHKCST, *CHKPND, *PRIKEY, *REFCST, *UNQCST	Optional, Positional 2

File (FILE)

Specifies the physical file for which you are showing constraint relationships.

Qualifier 1: File

*ALL   All physical files that have constraint relationships are shown.

name   Specify the name of the physical file.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
        The current library for the job is searched. If no library is specified as the current library for the job, the QGPL library is used.

*ALL   All libraries on the system are searched.

name   Specify the name of the library to be searched.

Constraint type (TYPE)

Specifies the type of constraint you are showing.

*ALL   All types of constraint relationships for the specified physical file are shown.

*CHKCST

The check constraints are shown.

*REFCST

The referential constraints are shown.

*UNQCST

The unique constraints are shown.

*PRIKEY

The primary key constraints are shown.

*CHKPND

The constraint relationships that have records that possibly are in violation of the constraints and are pending verification (check pending) are shown.

Examples

```
WRKPFCST   FILE(ADMN/PERSONNEL)   TYPE(*CHKPND)
```

This command shows a list of the referential constraints that are in check pending status for the dependent file PERSONNEL located in the library ADMN.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

CPF9810

Library &1 not found.

CPF9812

File &1 in library &2 not found.

CPF9820

Not authorized to use library &1.

CPF9822

Not authorized to file &1 in library &2.

Work with PF DataLinks (WRKPFDL)

The Work with Physical File DataLinks (WRKPFDL) command can be used to show a display from which you can reconcile or display physical file datalinks. You can work with the datalinks that are defined for all physical files or a specified physical file.

Parameters

Keyword	Description	Choices	Notes
FILE	File	*Qualified object name*	Required, Positional 1
	Qualifier 1: File	*Name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *ALL	
DTALNK	DataLinks	***ALL**, *LNKPND, *LNK	Optional, Positional 2

File (FILE)

Specifies the physical file for which you are showing DataLinks.

This is a required parameter.

Qualifier 1: File

*ALL   All physical files that have datalink columns defined as FILE LINK CONTROL are shown.

name   Specify the name of the physical file.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
         The current library for the job is searched. If no library is specified as the current library for the job, the QGPL library is used.

*ALL   All libraries on the system are searched.

name   Specify the name of the library to be searched.

DataLinks (DTALNK)

Specifies which datalinks you are showing.

*ALL   All datalinks defined with FILE LINK CONTROL are shown.

*LNKPND

   Datalinks which having pending links are shown.

*LNK   Datalinks which are currently linked are shown.

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Examples

```
WRKPFDL   FILE(ADMN/*ALL)   DTALNK(*LNKPND)
```

This command shows a list of all physical files in the ADMN library that are in link pending status.

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Error messages

*ESCAPE Messages

CPF9809

   Library &1 cannot be accessed.

CPF9810

   Library &1 not found.

CPF9812

   File &1 in library &2 not found.

CPF9820

   Not authorized to use library &1.

CPF9822

   Not authorized to file &1 in library &2.

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Work with Programs (WRKPGM)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Programs (WRKPGM) command allows you to show a list of programs from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the programs to which you have object operational (*OBJOPR) authority will be shown.
- To perform operations on the programs, you must have *USE authority to the command used by the operation, and the appropriate authority to the programs on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
PGM	Program	*Qualified object name*	Required, Positional 1
	Qualifier 1: Program	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	
PGMATR	Program attribute	***ALL**, ASM38, BAS, BAS38, CBL, CBLLE, CBL36, CBL38, CLE, CLLE, CLP, CLP38, CPPLE, CSP, DFU, DFUEXC, DFUNOTEXC, FTN, PAS, PAS38, PLI, PLI38, RMC, RPG, RPGLE, RPG36, RPG38	Optional, Positional 2

Program (PGM)

Specifies the programs to be shown.

This is a required parameter.

Qualifier 1: Program

*ALL   All programs are shown.

generic-name
> Specify the generic name of the programs to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all programs that have names with the same prefix as the generic name are shown.

name   Specify the name of the program to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB

>The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

>If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

>All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

>| | | |
>|---|---|---|
>| #CGULIB | #DSULIB | #SEULIB |
>| #COBLIB | #RPGLIB | |
>| #DFULIB | #SDALIB | |

>Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

>| | | | |
>|---|---|---|---|
>| QDSNX | QRCLxxxxx | QUSRDIRDB | QUSRVI |
>| QGPL | QSRVAGT | QUSRIJS | QUSRVxRxMx |
>| QGPL38 | QSYS2 | QUSRINFSKR | |
>| QMGTC | QSYS2xxxxx | QUSRNOTES | |
>| QMGTC2 | QS36F | QUSROND | |
>| QMPGDATA | QUSER38 | QUSRPOSGS | |
>| QMQMDATA | QUSRADSM | QUSRPOSSA | |
>| QMQMPROC | QUSRBRM | QUSRPYMSVR | |
>| QPFRDATA | QUSRDIRCF | QUSRRDARS | |
>| QRCL | QUSRDIRCL | QUSRSYS | |

>1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
>2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Program attribute (PGMATR)

Specifies whether only programs with a specific program attribute are shown.

*ALL   All programs specified for the **Program (PGM)** parameter are shown.

ASM38

>Programs with the attribute ASM38 (System/38 Assembler programs) are shown. Programs with this attribute cannot be run on a System i.

BAS   Programs with the attribute BAS (BASIC programs) are shown.

BAS38

>Programs with the attribute BAS38 (BASIC programs used in the System/38 environment) are shown.

CBL   Programs with the attribute CBL (original program model (OPM) COBOL programs) are shown.

CBLLE
Programs with the attribute CBLLE (integrated language environment (ILE) COBOL programs) are shown.

CBL36 Programs with the attribute CBL36 (COBOL programs used in the System/36 environment) are shown.

CBL38 Programs with the attribute CBL38 (COBOL programs used in the System/38 environment) are shown.

CLE Programs with the attribute CLE (ILE C programs) are shown.

CLLE Programs with the attribute CLLE (ILE control language (CL) programs) are shown.

CLP Programs with the attribute CLP (OPM CL programs) are shown.

CLP38 Programs with the attribute CLP38 (CL programs used in the System/38 environment) are shown.

CPPLE
Programs with the attribute CPPLE (ILE C++ programs) are shown.

CSP Programs with the attribute CSP (CSP/AE application programs) are shown.

DFU Programs with the attribute DFU (data file utility (DFU) programs) are shown.

DFUEXC
Programs with the attribute DFUEXC (DFU programs which can be run in the System/38 environment) are shown.

DFUNOTEXC
Programs with the attribute DFUNOTEXC (System/38 DFU programs which cannot be run in the System/38 environment) are shown.

FTN Programs with the attribute FTN (FORTRAN programs) are shown.

PAS Programs with the attribute PAS (PASCAL programs) are shown.

PAS38 Programs with the attribute PAS38 (PASCAL programs used in the System/38 environment) are shown.

PLI Programs with the attribute PLI (PL/I programs) are shown.

PLI38 Programs with the attribute PLI38 (PL/I programs used in the System/38 environment) are shown.

RMC Programs with the attribute RMC (RM/COBOL-85 programs) are shown.

RPG Programs with the attribute RPG (OPM RPG programs) are shown.

RPGLE
Programs with the attribute RPGLE (ILE RPG programs) are shown.

RPG36
Programs with the attribute RPG36 (RPG programs used in the System/36 environment) are shown.

RPG38
Programs with the attribute RPG38 (RPG programs used in the System/38 environment) are shown.

Top

Examples

Example 1: Working with Control Language Programs

```
WRKPGM   PGM(MYLIB/*ALL)  PGMATR(CLP)
```

This command displays the Work with Programs panel, showing a list of all the programs with the attribute CLP (control language program) to which the user has some authority that are stored in library MYLIB.

Example 2: Working with Programs by Generic Name

```
WRKPGM   PGM(AB*)
```

This command displays the Work with Programs panel, showing a list of all programs in the library list that have names beginning with the letters 'AB'.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

CPF9820

Not authorized to use library &1.

Work with Program Tables (WRKPGMTBL)

The Work with Program Table (WRKPGMTBL) command lets you create finance program tables and, once they are created, lets you add or delete program names in these tables. Several finance program tables can be defined, but you must use unique names for each table. If the program table you specify on this command does not exist, it is created.

Finance program table updates can be accessed by any finance job that is submitted after all changes are completed.

Restriction: This command is shipped with public *EXCLUDE authority.

Parameters

Keyword	Description	Choices	Notes
PGMTBL	Program table	*Name*, *SELECT, ***ALL**	Optional, Positional 1
TEXT	Text 'description'	*Character value*, ***BLANK**	Optional

Program table (PGMTBL)

Specifies the name of a table that contains finance program IDs and user-associated program names.

The possible values are:

*ALL   Displays all of the program tables currently defined.

*SELECT
    The Work with Program Table display is shown. With this display you can create, change, delete, or display program tables.

program-table-name
    Specify the name of the program table that you want to work with.

Text 'description' (TEXT)

Specifies the text that briefly describes the object.

The possible values are:

*BLANK
    No text is specified.

'description'
> Specify no more than 50 characters of text, enclosed in apostrophes.

Examples

Example 1: Working With All Finance Program Tables

```
WRKPGMTBL    PGMTBL(*SELECT)
```

This command allows you to work with all finance program tables. You can create a new table, or select an existing table to change, delete, or display.

Example 2: Working With a Program Table

```
WRKPGMTBL    PGMTBL(PGMTBL1)
```

This command allows you to work with program table PGMTBL1. With this command you can create, change, delete, or display a table.

Error messages

*ESCAPE Messages

CPF8379
> Error while processing file &1 in &2.

CPF8380
> Error while opening file &1 in &2.

CPF8381
> Error while closing file &1 in &2.

Work With Remote Systems (WRKPMRMTS)

Where allowed to run:
- Interactive job (*INTERACT)

Threadsafe: No

In some environments, a central IBM System i system in a network of System i systems sends the required performance data to IBM for processing. The other System i systems in the network may send their performance data to the central system for transmission to IBM. Use this display to identify those other System i systems, or remote systems, and to set the schedule for their data transmission.

The Work with Remote System i Systems display shows a list of remote System i systems. The display includes the status for the systems (active or inactive) and the descriptions. Use this display only if you have your System i system configured as a central system, and you need to create the setup for PM Agent remote systems.

If the display initially shows no entries, you must create a new remote location. Press F6 (Create) to create an entry by using the Create Setup for PM Agent Remote System display.

Parameters

None

Examples

None

Error messages

Unknown

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Work With Omissions (WRKPMRPTO)

Where allowed to run:
- Interactive job (*INTERACT)

Threadsafe: No

The PM for System i5 offering includes an analysis of the Top items for jobs, users, and communication lines. However, some jobs, users, or communication lines are not appropriate for such an analysis. For example, you may want to exclude some jobs with longer than normal run times, such as autostart jobs, in the Run Time category.

From the Work with Omissions menu, select one of the following to omit these jobs, users, or communication lines from the categories of the analysis.

The Omit Jobs display shows the jobs and the categories on which the analysis is based. The Omit Users display shows the users and the categories on which the analysis is based. The Omit Communication Lines display shows the communication lines and the categories on which the analysis is based. Type a 1 in the appropriate field to omit an item from a particular category.

You can omit groups of jobs and users from the Top analysis by using the generic omit function provided by PM Agent. For example, to omit all jobs that start with MYAPP, specify MYAPP*.

Top

Parameters

None

Top

Examples

None

Top

Error messages

Unknown

Top

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Work With Scheduled Jobs (WRKPMSCH)

Where allowed to run:
- Interactive job (*INTERACT)

Threadsafe: No

The Work with Automatically Scheduled Jobs display shows you when the PM Agent jobs are scheduled to run. You see the job name, status (A=active or I=inactive), next run date and time, and the number of runs to date.

Type 2 next to the job that you want to change and press Enter. You are shown the Change Automatically Scheduled Jobs display.

Press F5 (Refresh) to refresh the display with current job information.

Top

Parameters

None

Top

Examples

None

Top

Error messages

Unknown

Top

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Work with Panel Groups (WRKPNLGRP)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Panel Groups (WRKPNLGRP) command allows you to show a list of panel groups from one or more libraries.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the panel groups to which you have some authority will be shown on the display.
- To perform operations on the panel groups, you must have *USE authority to the command used by the operation, and the appropriate authority to the panel groups on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
PNLGRP	Panel group	*Qualified object name*	Required, Positional 1
	Qualifier 1: Panel group	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Panel group (PNLGRP)

Specifies the panel groups to be shown.

This is a required parameter.

Qualifier 1: Panel group

*ALL   All panel groups are shown.

generic-name
> Specify the generic name of the panel groups to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all panel groups that have names with the same prefix as the generic name are shown.

name   Specify the name of the panel group to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
> The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB     #DSULIB     #SEULIB
#COBLIB     #RPGLIB
#DFULIB     #SDALIB
```

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX       QRCLxxxxx   QUSRDIRDB    QUSRVI
QGPL        QSRVAGT     QUSRIJS      QUSRVxRxMx
QGPL38      QSYS2       QUSRINFSKR
QMGTC       QSYS2xxxxx  QUSRNOTES
QMGTC2      QS36F       QUSROND
QMPGDATA    QUSER38     QUSRPOSGS
QMQMDATA    QUSRADSM    QUSRPOSSA
QMQMPROC    QUSRBRM     QUSRPYMSVR
QPFRDATA    QUSRDIRCF   QUSRRDARS
QRCL        QUSRDIRCL   QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

Examples

```
WRKPNLGRP    PNLGRP(LIB01/ABC*)
```

This command displays the Work with Panel Groups panel, showing a list of panel groups whose names begin with the letters 'ABC' that exist in library LIB01.

Error messages

*ESCAPE Messages

CPF9809

> Library &1 cannot be accessed.

Work with Problem (WRKPRB)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Problems (WRKPRB) command shows problem log entries for problems that were detected by the system or detected by the user.

Problems can be deleted from the log by using the Delete Problem (DLTPRB) command.

Restriction: This command is shipped with public *EXCLUDE authority and the QPGMR, QSYSOPR, QSRV, and QSRVBAS user profiles have private authorities to use the command.

Parameters

Keyword	Description	Choices	Notes
PRBID	Problem identifier	*Character value*, ***ALL**	Optional, Positional 1
STATUS	Status type	Single values: ***ALL** Other values (up to 6 repetitions): *OPENED, *READY, *PREPARED, *SENT, *ANSWERED, *VERIFIED, *CLOSED	Optional
SEV	Severity	Single values: ***ALL** Other values (up to 3 repetitions): 1, 2, 3, 4	Optional
PERIOD	Period	*Element list*	Optional
	Element 1: Start time and date	*Element list*	
	Element 1: Start time	*Time*, ***AVAIL**	
	Element 2: Start date	*Date*, ***BEGIN**, *CURRENT	
	Element 2: End time and date	*Element list*	
	Element 1: End time	*Time*, ***AVAIL**	
	Element 2: End date	*Date*, ***END**, *CURRENT	
HARDWARE	Hardware	*Element list*	Optional
	Element 1: Device type	*Character value*, ***ALL**	
	Element 2: Model number	*Character value*, ***ALL**	
	Element 3: Serial number	*Character value*, ***ALL**	
RESOURCE	Resource name	*Name*, ***ALL**	Optional
LICPGM	Product	*Element list*	Optional
	Element 1: Program identifier	*Character value*, ***ALL**	
	Element 2: Release	*Character value*, ***ALL**	
	Element 3: Modification level	*Character value*, ***ALL**	
FUNCTION	Function	*Character value*, ***ALL**	Optional
PGM	Program	*Generic name, name*, ***ALL**	Optional

Keyword	Description	Choices	Notes
MSGID	Message identifier	*Generic name, name*, ***ALL**	Optional
ORIGIN	Origin	*Element list*	Optional
	Element 1: Network identifier	*Communications name*, ***ALL**, **NETATR*	
	Element 2: Control point name	*Communications name*, ***ALL**, **NETATR*	
SRVID	Service number	*Character value*, ***ALL**	Optional
BRANCH	Branch number	*Character value*, ***ALL**	Optional
COUNTRY	Country or region number	*Character value*, ***ALL**	Optional
ASNUSER	User assigned	*Simple name*, ***ALL**	Optional
GROUP	Group assigned	*Character value*, ***ALL**	Optional
PRBTYPE	Problem type	***ALL**, 1, 2, 3, 4, 5, 6	Optional
PRBCGY	Problem category	***ALL**, *REPORT, *CRITICAL, *LOGONLY	Optional

Problem identifier (PRBID)

Specifies the problem identifier of the problem being selected. Problems with different system origins can have the same identifier. This parameter can be used with the ORIGIN parameter to select a single problem from a particular system origin.

*ALL   All problem identifiers are selected.

problem-identifier
>   Specify the 10-character problem identifier of the problem being selected.

Status type (STATUS)

Specifies the status of problem log entries. There are seven types of status:

*OPENED
>   The problem is in Opened status. The problem has been identified and a problem record was created.

*READY
>   The problem is in Ready status. Problem analysis information has been added to the problem record.

*PREPARED
>   The problem is in Prepared status. The problem has been prepared for reporting.

*SENT
>   The problem is in Sent status. The problem has been sent to a service provider, but no answer has been returned.

*ANSWERED
>   The problem is in Answered status. An answer has been returned by the service provider or added by an operator on this system.

*VERIFIED
>   The problem is in Verified status. The problem was resolved and the system operator has verified that the problem is corrected.

*CLOSED
>The problem was closed.

Single values

*ALL   All types of status of problem log entries are shown.

Other values (up to 6 repetitions)

status-type
>Specify the type of status to be shown.

Severity (SEV)

Specifies the severity level of the problem. Severity levels are assigned by the user when the problem is prepared for reporting. The four severity levels are:

1   High

2   Medium

3   Low

4   None

Single values

*ALL   All problem log entries are shown.

Other values (up to 3 repetitions)

severity
>Specify the level of severity of problem log entries to be shown.

Period (PERIOD)

Specifies the period of time for which problem log entries are shown. This is the time when the problem entry was placed in the log.

Element 1: Start time and date

>**Element 1: Start time**

>***AVAIL**
>>The logged data that is available for the specified starting date is shown.

>*time*   Specify the starting time for the specified starting date indicating the logged data to display.

>>The time is specified in 24-hour format and can be specified with or without a time separator:

>>- Without a time separator, specify a string of 4 or 6 digits (hhmm or hhmmss) where hh = hours, mm = minutes, and ss = seconds. Hours, minutes, and seconds must each be exactly 2 digits (use leading zeros if necessary).

- With a time separator, specify a string of 5 or 8 digits where the time separator specified for your job is used to separate the hours, minutes, and seconds. If you enter this command from the command line, the string must be enclosed in apostrophes. If a time separator other than the separator specified for your job is used, this command will fail.

Element 2: Start date

*BEGIN
> The logged data from the beginning of the log is shown.
>
> **Note:** If *BEGIN is specified, any time value other than *AVAIL for the start time is ignored.

*CURRENT
> The logged data for the current day from the specified starting time through the ending time (if it is specified) is shown.

date Specify the starting date for which logged data is shown. The date must be entered in the job date format.

Element 2: End time and date

Element 1: End time

*AVAIL
> The logged data that is available for the specified ending date is shown.

time Specify the ending time for the specified ending date for which logged data is shown. See the time description for element 1 in this parameter description for details on how the time must be specified.

Element 2: End date

*END The last day on which data was logged is the last day for which the logged data is shown.
> **Note:** If *END is specified, any time value other than *AVAIL for the end time is ignored.

*CURRENT
> The logged data for the current day from the specified starting time through the ending time (if it is specified) is shown.

date Specify the ending date for which logged data is to be shown. The date must be specified in the job date format.

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Hardware (HARDWARE)

Specifies that only problem log entries that identify the specified failing hardware are shown.

Element 1: Device type

*ALL All entries are shown, regardless of what hardware is identified as failing.

Note: If *ALL is specified, any value other than *ALL for model and serial number is ignored.

type   Specify the 4-character type code for the hardware.

Element 2: Model number

*ALL   All entries that identify failing hardware of the specified type are shown.

       Note: If *ALL is specified, any value other than *ALL for serial number is ignored.

model   Specify the 3-character model number for the hardware.

Element 3: Serial number

*ALL   All entries that identify failing hardware of the specified type and model are shown.

serial   Specify the serial number of the hardware in one of the following formats, where n is any alphabetic or numeric character.
- nnnnn
- nnnnnnn
- nn-nnnnn
- nn-nnnnnnn
- nnnnnnnnnnnn

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Resource name (RESOURCE)

Specifies that only problem log entries that identify the specified failing resource name are shown.

*ALL   All entries are shown, regardless of which resource name, if any, is identified by the problem.

name   Specify the resource name.

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Product (LICPGM)

Specifies that problem log entries that identify the specified failing software are shown.

Element 1: Program identifier

*ALL   All entries are shown regardless of what software is identified as failing.

       Note: If *ALL is specified, any value other than *ALL for release and modification is ignored.

character-value
       Specify the identification number of the licensed program.

Element 2: Release

*ALL   All entries that identify failing software from the specified licensed program are shown.

       Note: If *ALL is specified, any value other than *ALL for modification is ignored.

character-value
       Specify the release level of the licensed program.

Element 3: Modification level

*ALL   All entries that identify failing software from the specified licensed program and release are shown.

character-value
> Specify the modification number of the release.

Function (FUNCTION)

Specifies that only problem log entries that identify the specified function are to be shown. The function is present only in user-detected problem log entries and represents a major functional area or product.

*ALL   All entries are shown regardless of what function ID, if any, is identified.

generic-function-identifier
> Specify a generic function ID. A generic ID is a character string containing one or more of the initial characters of the function ID followed by an asterisk (*). If blank characters are included, the character string must be enclosed in apostrophes (').

function-identifier
> Specify the complete function ID. If blank characters are included, the character string must be enclosed in apostrophes (').
>
> Valid values for function ID are:

ID	Description
ALRT	Alerts
APF	Advanced printer function
APPC	Advanced program-to-program communications
APPN	Advanced Peer-to-Peer Networking function
APS	Advanced DBCS Printer Support program
ASYNC	Asynchronous communications
BAS	BASIC compiler
BGU	Business Graphics Utility
BSC	Binary synchronous communications
CBL	COBOL compiler
CGU	Character generator utility
CL	Control language
CSM	Communications and Systems Management
C400	C compiler
DDM	Distributed data management
DFU	Data file utility
DHCF	Distributed host command facility
DICT	Language dictionaries
DSNX	Distributed system node executive
ECS	Electronic customer support

FINANCE
Finance Communications

FTN   FORTRAN compiler

FTS   File transfer support

GDDM
Graphical Data Display Manager

ICF   Intersystem Communication Facility

IDU   Interactive data definition utility (IDDU)

INTRA
Intrasystem Communication

IPDS   Intelligent Printer Data Stream

ITF   Interactive terminal facility

LPDA   Link Problem Determination and Analysis

MIA   MI Assembler

MIGR   Migration

OBJD   Object distribution

OCL   S/36 operator control language

OFC   OfficeVision

OSP   i5/OS

PAS   Pascal compiler

PASSTHRU
Pass-through

PC400   Client Access for Windows

PDM   Programming development manager

PL1   PL/I compiler

POSCOM
Point-of-Sale Communications Utility

QRY   Query

RETAIL
Retail Communications

REXX   REXX interpreter

RJE   Remote job entry

RLU   Report layout utility

RPFT   Performance Tools

RPG   RPG compiler

RSCS   Remote spooling communications subsystem

RWS   Remote work station

SDA   Screen design aid

SDLC   Synchronous Data Link Control

SEU   Source entry utility

SMU   IBM System Manager for i5/OS

SNADS
> SNA distribution services

SNUF   SNA upline facility

SORT   Sort utility

SQL   SQL

SUU   System upgrade utility

TCPIP   TCP/IP Connectivity Utilities

TRLAN
> Token ring network

TXT38   System/38-compatible Text Management

VMC   i5/OS Licensed Internal Code

VNET   RSCS/PROFS

WRD   Word processing

X21   X.21 public data network

X25   X.25 packet-switching data network

3270EM
> 3270 device emulation

802.3   Ethernet

Program (PGM)

Specifies whether only problem log entries that identify a specified failing program are shown. For machine detected problems, the failing program, if any, is identified by the most likely possible cause.

*ALL   All entries are shown regardless of whether a program is identified.

generic-name
> Specify a generic program name. A generic name is a character string containing one or more characters followed by an asterisk (*).

name   Specify the program name.

Message identifier (MSGID)

Specifies whether only problem log entries that identify a specified message are shown.

*ALL   All entries are shown regardless of which message ID is associated with the problem.

generic-name
> Specify a generic message identifier (ID). A generic ID is a character string containing one or more characters followed by an asterisk (*).

name   Specify the message identifier.

Origin (ORIGIN)

Specifies that only problem log entries that originated at the specified systems are shown.

Element 1: Network identifier

*ALL   All entries are shown regardless of the network ID of the origin system.

*NETATR
> Only entries that originated on systems with the same local network ID as the one defined in the network attributes for this system are shown.

communications-name
> Specify a network ID. Only entries that originated on systems with this local network ID are shown.

Element 2: Control point name

*ALL   All entries originating at systems with the specified network ID are shown.

*NETATR
> Only entries that originated on systems with the same local control point name as the one defined in the network attributes for this system are shown.

communications-name
> Specify a control point name.

Service number (SRVID)

Specifies whether only problem log entries that have the specified service assigned number are shown. This number was assigned when the problem was reported to IBM service support.

*ALL   All entries are shown regardless of the service assigned number, if any.

character-value
> Specify the service assigned number.

Branch number (BRANCH)

Specifies whether only problem log entries that have the specified branch number are shown. This number was assigned when the problem was reported to IBM service support.

*ALL   All entries are shown regardless of the branch number, if any.

character-value
> Specify the three-digit branch number for the problem log entry. All three digits must be specified.

Country or region number (COUNTRY)

Specifies whether only problem log entries that have the specified country or region number are shown. This number was assigned when the problem was reported to IBM service support.

*ALL   All entries are shown regardless of the country or region number, if any.

character-value
>   Specify the three-digit country or region number for the problem log entry. All three digits must be specified.

User assigned (ASNUSER)

Specifies whether only problem log entries assigned to this user are shown.

*ALL   All problem log entries are shown.

user-name
>   Specify the user ID assigned to the problems to be shown.

Group assigned (GROUP)

Specifies the group in the filter to which the problem is assigned.

*ALL   All program log entries are displayed, regardless of the group assigned to them.

character-value
>   Specify the 10-character problem filter group assigned to the entry.
>
>   **Note:** The values are blank if problem log filtering is not used.

Problem type (PRBTYPE)

Specifies which type of problems to work with.

*ALL   All problem log entries are shown, regardless of the problem type.

1   Only machine-detected problems are shown.

2   Only user-detected problems are shown.

3   Only PTF order problems are shown.

4   Only application-detected problems are shown.

5   Only Client machine-detected problems are shown.

6   Only Client user-detected problems are shown.

Problem category (PRBCGY)

Specifies which category of problems to display.

*ALL   All problems are shown.

*REPORT
      Problems that are logged and reported to the service provider are shown.

*CRITICAL
      Problems that are critical are shown.

*LOGONLY
      Problems that are logged, but not reported to the service provider, are shown.

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Examples

Example 1: Displaying Entries with Status of OPENED or READY

```
WRKPRB   STATUS(*OPENED *READY) HDW(9347)
```

This command displays the Work with Problems panel, showing only those problem entries with a status of OPENED or READY which identify a failing device with type 9347.

Example 2: Displaying Current Day Problem Entries

```
WRKPRB   PERIOD((*AVAIL *CURRENT))
```

This command displays the Work with Problems panel, showing all problem entries that are created in the log on the current day.

Example 3: Displaying List of Hardware Problems

```
WRKPRB   SEV(1 2)  HARDWARE(9347 001 '10-7523489')
```

This command shows a list containing problems with the hardware specified by the user. The user has specified that the command track medium to high levels of severity.

Example 4: Displaying Problems That Have Been Opened

```
WRKPRB   STATUS(*OPENED)
         PERIOD((*AVAIL  *CURRENT) (120000  *CURRENT))
         LICPGM(5722SS1  03  00)  PGM(QNOPGM)
```

This command shows a list containing problems that have been opened during the period starting at midnight and ending at noon on the current day, and have not yet been analyzed. This command also identifies the specified licensed program identifier and program name as the probable cause of the failure.

Example 5: Displaying a List of Machine-Detected Problems

```
WRKPRB   RESOURCE(TAP01)  MSGID(CPF6788)
```

This command shows a list containing machine detected problems that were opened due to the message, CPF6788, having been sent to the system operator message queue and for which a problem analysis was done. The problem analysis was done to determine the resource name of the device suspected of failure, which in this case is device, TAP01. The list of problems includes user-detected problems. To get the user-detected problems, the user specified the resource name and message identifier by using the Analyze Problem (ANZPRB) command.

Example 6: Displaying a List of Reported Problems
```
WRKPRB    SRVID(12345)
```

This command shows a list containing problems that have been reported to an IBM service identifier.

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Error messages

ESCAPE Messages

CPF7A9C
> Cannot work with the problem log at this time.

CPF7D41
> Error occurred while logging order assistance request.

CPF7D42
> Error occurred while performing database operation.

CPF9845
> Error occurred while opening file &1.

CPF9871
> Error occurred while processing.

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Work with Product Information (WRKPRDINF)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Product Information (WRKPRDINF) command allows you to access information available through marketing support systems. When you use the WRKPRDINF command, a display without prompts is shown, informing you that the System i5 is going to start 3270 emulation. If there is a problem, you can call the Help Desk number shown. If you press Enter to continue, a communications session is established.

There are no parameters for this command.

Parameters

None

Examples

```
WRKPRDINF
```

This command allows you to sign on the IBM Information Network.

Error messages

None

Work with Printing Status (WRKPRTSTS)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Printing Status (WRKPRTSTS) command allows you to list the statuses of a specified spooled file.

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Parameters

Keyword	Description	Choices	Notes
FILE	Spooled file	*Name*	Required, Positional 1
JOB	Job name	Single values: * Other values: *Qualified job name*	Optional, Positional 2
	Qualifier 1: Job name	*Name*	
	Qualifier 2: User	*Name*	
	Qualifier 3: Number	000000-999999	
SPLNBR	Spooled file number	1-999999, ***ONLY**, *LAST, *ANY	Optional, Positional 3
JOBSYSNAME	Job system name	*Name*, ***ONLY**, *CURRENT, *ANY	Optional
CRTDATE	Spooled file created	Single values: ***ONLY**, *LAST Other values: *Element list*	Optional
	Element 1: Creation date	*Date*	
	Element 2: Creation time	*Time*, ***ONLY**, *LAST	

Top

Spooled file (FILE)

Specifies the name of a file created by a user program or the name of the device file used to create this file.

This is a required parameter.

Top

Job name (JOB)

Specifies the name of the job that created the spooled file. This parameter is valid only if a spooled file name is specified on the **Spooled file (FILE)** parameter.

Single values

* The job from which this WRKPRTSTS command was entered is the job that created the spooled file.

Qualifier 1: Job name

name   Specify the name of the job that created the spooled file. If no job qualifier is given, all of the jobs currently in the system are searched for the simple job name.

Qualifier 2: User

name   Specify the name of the user profile under which the spooled file was created.

Qualifier 3: Number

000000-999999
    Specify the system-assigned number of the job that created the spooled file.

Spooled file number (SPLNBR)

Specifies the number of the spooled file being processed. This parameter is valid only if a spooled file name is specified on the **Spooled file (FILE)** parameter.

*ONLY
    Only one spooled file from the job on the specified queue has the specified file name; no spooled file number is needed. If *ONLY is specified and more than one spooled file on the output queue has the same name, an error message is shown.

*LAST
    The highest-numbered spooled file that is on the specified output queue and that has the specified file name is processed first.

*ANY   The spooled file number is not used to determine which spooled file is used. Use this value when the job system name parameter or the spooled file create date and time parameter is to take precedence over the spooled file number when selecting a spooled file.

number
    Specify the number of the job's spooled file that is on the specified output queue and that is being processed first.

Job system name (JOBSYSNAME)

Specifies the name of the system where the job that created the spooled file (JOB parameter) ran. This parameter is considered after the job name, user name, job number, spooled file name, and spooled file number parameter requirements have been met.

*ONLY
    There is one spooled file with the specified job name, user name, job number, spooled file name, spooled file number, and spooled file create date and time.

*CURRENT
    The spooled file created on the current system with the specified job name, user name, job number, spooled file name, spooled file number, and create date and time is used.

*ANY   The job system name is not used to determine which spooled file is used. Use this value when the spooled file create date and time parameter is to take precedence over the job system name when selecting a spooled file.

name   Specify the name of the system where the job that created the spooled file ran.

Spooled file created (CRTDATE)

Specifies the date and time the spooled file was created. This parameter is considered after the job name, user name, job number, spooled file name, spooled file number, and job system name parameter requirements have been met.

Single values

*ONLY
There is one spooled file with the specified job name, user name, job number, spooled file name, spooled file number, and job system name.

*LAST
The spooled file with the latest create date and time of the specified job name, user name, job number, spooled file name, spooled file number, and job system name is used.

Element 1: Creation date

date   Specify the date the spooled file was created.

Element 2: Creation time

*ONLY
There is one spooled file with the specified job name, user name, job number, spooled file name, spooled file number, job system name, and spooled file create date.

*LAST
The spooled file with the latest create time of the specified job name, user name, job number, spooled file name, spooled file number, job system name, and spooled file create date is used.

time   Specify the time the spooled file was created.

Examples

```
WRKPRTSTS   FILE(MYFILE)
```

This command assumes that the user has a spooled file on an output queue that does not have a printer attached to it. When the user specifies this command, the Work with Printing Status panel will be shown. One status message that would apply to the file named MYFILE would be, "This file is not associated with a started printer." Depending on the status of MYFILE, other status types could be shown.

Error messages

*ESCAPE Messages

CPF3303
File &1 not found in job &5/&4/&3.

CPF3309
No files named &1 are active.

CPF3330

　　　　Necessary resource not available.

CPF3342

　　　　Job &5/&4/&3 not found.

CPF3344

　　　　File &1 number &8 no longer in the system.

CPF34B4

　　　　WRKPRTSTS command not valid for diskette files.

CPF34B5

　　　　Printer &1 is not found.

CPF34B6

　　　　More than one printer was selected

CPF34B7

　　　　Printer must be selected from list of printers.

CPF9871

　　　　Error occurred while processing.

Work with PSF Configuration (WRKPSFCFG)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with PSF Configuration (WRKPSFCFG) command allows you to display and work with Print Services Facility (PSF) configuration objects. You can specify PSF configuration objects from one or more libraries.

Restrictions:

- The PSF feature is required to use this command.

Parameters

Keyword	Description	Choices	Notes
PSFCFG	PSF configuration	*Qualified object name*	Required, Positional 1
	Qualifier 1: PSF configuration	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

PSF configuration (PSFCFG)

Specifies the Print Services Facility (PSF) configuration objects that are to be shown.

This is a required parameter.

Qualifier 1: PSF configuration

*ALL   Display all PSF configuration objects.

generic-name
Specify the generic name of the PSF configuration objects to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all PSF configuration objects that have names with the same prefix as the generic name are shown.

name   Specify the name of the PSF configuration object to be shown.

Qualifier 2: Library

*LIBL   Search all libraries in the job's library list for the PSF configuration object.

*CURLIB
Search the current job library for the job. If no library is specified as the current library for the job, the QGPL library is used.

*USRLIBL
Search only the libraries listed in the user portion of the job's library list.

*ALL Search all libraries in the system, including QSYS.

*ALLUSR
> Search all user libraries.

name Search the specified library.

Examples

```
WRKPSFCFG   PSFCFG(*ALL)
```

This command displays the Work with PSF Configuration objects panel, showing a list of all PSF configuration objects (*PSFCFG) that are located in any library in the library list.

Error messages

*ESCAPE Messages

CPF9801
> Object &2 in library &3 not found.

CPF9802
> Not authorized to object &2 in &3.

CPF9803
> Cannot allocate object &2 in library &3.

CPF9805
> Object &2 in library &3 destroyed.

CPF9810
> Library &1 not found.

CPF9811
> Program &1 in library &2 not found.

CPF9820
> Not authorized to use library &1.

CPF9830
> Cannot assign library &1.

Work with PTF Groups (WRKPTFGRP)

The Work with Program Temporary Fix Groups (WRKPTFGRP) command displays a list of PTF groups on the system. A PTF group consists of a list of program temporary fixes (PTFs) defined for the purpose of managing those PTFs as one group. A PTF group can identify other PTF groups called related PTF groups. The PTFs in the PTF group as well as the PTFs in the latest installed level of all related PTF groups are used to determine the overall status of the PTF group.

Restrictions:

- This command is shipped with exclude (*EXCLUDE) public authority. The QPGMR, QSYSOPR, QSRV, and QSRVBAS user profiles are shipped with private authorities to use this command.

Parameters

Keyword	Description	Choices	Notes
PTFGRP	PTF group	*Character value*, ***ALL**	Optional, Positional 1
PTFGRPLVL	PTF group level	1-99999, *INSTALLED, *LATEST, ***ALL**	Optional

PTF group (PTFGRP)

Specifies the PTF groups to display.

This is a required parameter.

*ALL   All PTF groups on the system are displayed.

name   Specify the name of the PTF group to display.

generic-name
      Specify the generic name of the PTF group to display. A generic name is a character string that contains one or more characters followed by an asterisk (*).

PTF group level (PTFGRPLVL)

Specifies the level of the PTF group to display.

*ALL   All levels of the PTF group are displayed.

*LATEST
      The latest level of the PTF group is displayed.

*INSTALLED

> The latest level of the PTF group that has a status of **Installed** or **Apply at next IPL** is displayed. If no levels of the PTF group have a status of **Installed** or **Apply at next IPL**, the latest level of the PTF group that exists on the system is displayed.

1-99999

> Specify the level of the PTF group to display.

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Examples

Example 1: Specifying a generic PTF group name

```
WRKPTFGRP   PTFGRP(SF*)
```

This command allows you to work with all of the PTF groups that start with the letters 'SF'.

Example 2: Display the latest installed level of all PTF groups on the system

```
WRKPTFGRP   PTFGRP(*ALL)   PTFGRPLVL(*INSTALLED)
```

This command displays the latest installed level of all PTF groups on the system. For each PTF group, the latest level of the PTF group that has a status of **Installed** or **Apply at next IPL** is displayed. If no levels of the PTF group have a status of **Installed** or **Apply at next IPL**, the latest level of the PTF group that exists on the system is displayed.

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Error messages

*ESCAPE Messages

CPF9845

> Error occurred while opening file &1.

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Work with PTF Order (WRKPTFORD)

Where allowed to run: All environments (*ALL)
Threadsafe: No

Parameters
Examples
Error messages

The Work with PTF Order (WRKPTFORD) command shows program temporary fix (PTF) orders submitted by Send PTF Order (SNDPTFORD) command or Control PTF Order (QESCPTFO) API. From the Work with PTF Order panel you can do the following:

- Download an image order submitted.
- Cancel an image order submitted.
- Display a PTF order.

Restriction:

1. This command is shipped with public *EXCLUDE authority, and the QSRV and QSRVBAS user profiles have private authority to use the command.

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Parameters

Keyword	Description	Choices	Notes
PRBID	Problem identifier	*Character value*, ***ALL**	Optional, Positional 1
STATUS	Status type	Single values: ***ALL** Other values (up to 5 repetitions): *ONORDER, *DOWNLOADED, *CANCELED, *SCHEDULED, *FAILED, *MAILED	Optional

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Problem identifier (PRBID)

Specifies the problem identifier of the PTF order generated with the SNDPTFORD command or Control PTF Order(QESCPTFO) API to work with.

*ALL   All problem log records of PTF orders are displayed to work with.

problem-identifier
Specify the 10-character problem identifier of the PTF order being selected.

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Status type (STATUS)

Specifies the status of the PTF order to work with.

Single values

*ALL   All types of status of PTF order are shown.

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Other values (up to 5 repetitions)

*ONORDER

The PTF order has been submitted to the Fix Service Provider. The download process is the next action to do.

*DOWNLOADED

The PTF order has been submitted and downloaded.

*CANCELED

The PTF order has been canceled.

*SCHEDULED

The PTF order has been submitted to the Fix Service Provider and a job has been scheduled to download the order.

*FAILED

The PTF order has been failed.

*MAILED

The PTF order has been mailed.

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Examples

Example 1: Display a Specific PTF Order

```
WRKPTFORD   PRBID(1234567890)
```

This command displays the Work with PTF Order panel, showing the PTF order given the specific problem log identifier.

Example 2: Display Entries with Status of ONORDER

```
WRKPTFORD   STATUS(*ONORDER)
```

This command displays the Work with PTF Order panel, showing all PTF order entries in on-order status.

Example 3: Display All PTF Order Entries

```
WRKPTFORD
```

This command displays the Work with PTF Order panel, showing all PTF order entries with all status.

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Error messages

*ESCAPE Messages

CPF7A9C

Cannot work with the problem log at this time.

CPF7D42

Error occurred while performing database operation.

CPF9845

Error occurred while opening file &1.

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Work with Query Mgmt Forms (WRKQMFORM)

The Work with Query Management Forms (WRKQMFORM) command shows a list of query management forms from a user-specified subset of query management form names. From this list, several query management form-related functions are available.

Restrictions:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the query management forms to which you have some authority will be shown on the display.
- To perform operations on the query management forms, you must have *USE authority to the command used by the operation, and the appropriate authority to the query management forms on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
QMFORM	Query management report form	*Qualified object name*	Required, Positional 1
	Qualifier 1: Query management report form	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Query management report form (QMFORM)

Specifies the query management forms to be shown on the Work with Query Management Forms display.

This is a required parameter.

Qualifier 1: Query management report form

*ALL   All query management forms are shown on the Work with Query Management Forms display.

generic-name
Specify the generic name of the query management forms to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all query management forms that have names with the same prefix as the generic name are shown.

name   Specify the name of the query management form to be shown.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB

>   The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

>   If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

>   All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

> | | | |
> |---|---|---|
> | #CGULIB | #DSULIB | #SEULIB |
> | #COBLIB | #RPGLIB | |
> | #DFULIB | #SDALIB | |

>   Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

> | | | | |
> |---|---|---|---|
> | QDSNX | QRCLxxxxx | QUSRDIRDB | QUSRVI |
> | QGPL | QSRVAGT | QUSRIJS | QUSRVxRxMx |
> | QGPL38 | QSYS2 | QUSRINFSKR | |
> | QMGTC | QSYS2xxxxx | QUSRNOTES | |
> | QMGTC2 | QS36F | QUSROND | |
> | QMPGDATA | QUSER38 | QUSRPOSGS | |
> | QMQMDATA | QUSRADSM | QUSRPOSSA | |
> | QMQMPROC | QUSRBRM | QUSRPYMSVR | |
> | QPFRDATA | QUSRDIRCF | QUSRRDARS | |
> | QRCL | QUSRDIRCL | QUSRSYS | |

>   1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
>   2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL   All libraries in the system, including QSYS, are searched.

name   Specify the name of the library to be searched.

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Examples

```
WRKQMFORM   QMFORM(QGPL/DSP*)
```

This command shows a list of all query management forms in library QGPL that start with the letters 'DSP'.

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Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

Work with Query Mgmt Queries (WRKQMQRY)

The Work with Query Management Queries (WRKQMQRY) command shows a list of query management queries from a user-specified subset of query management query names. From this list, several query management query-related functions are available.

Restrictions:

1. Only the libraries to which you have USE authority will be searched.

2. Only the query management queries to which you have some authority will be shown on the display.

3. To perform operations on the query management queries, you must have USE authority to the command used by the operation, and the appropriate authority to the query management queries on which the operation is to be performed.

Parameters

Keyword	Description	Choices	Notes
QMQRY	Query management query	*Qualified object name*	Required, Positional 1
	Qualifier 1: Query management query	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Query management query (QMQRY)

Specifies the name and library of the query management query to be shown on the Work with Query Management Queries display. A specific or a generic query management query can be specified. Either type can be optionally qualified by a library name.

This is a required parameter.

The possible values are:

*ALL All query management queries in the libraries specified are shown on the Work with Query Management Queries display.

generic*-query-name
> Specify the generic name of the query management query to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, then all query management queries that have names with the same prefix as the generic query management query name are shown.

query-name
> Specify the name of the query management query to be shown.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB

The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB      #DSULIB      #SEULIB
#COBLIB      #RPGLIB
#DFULIB      #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX        QRCLxxxxx    QUSRDIRDB    QUSRVI
QGPL         QSRVAGT      QUSRIJS      QUSRVxRxMx
QGPL38       QSYS2        QUSRINFSKR
QMGTC        QSYS2xxxxx   QUSRNOTES
QMGTC2       QS36F        QUSROND
QMPGDATA     QUSER38      QUSRPOSGS
QMQMDATA     QUSRADSM     QUSRPOSSA
QMQMPROC     QUSRBRM      QUSRPYMSVR
QPFRDATA     QUSRDIRCF    QUSRRDARS
QRCL         QUSRDIRCL    QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL All libraries in the system, including QSYS, are searched.

name Specify the name of the library to be searched.

Examples

```
WRKQMQRY    QMQRY(QGPL/DSP*)
```

This command shows a list of all query management queries in library QGPL that start with the letters 'DSP'.

Error messages

CPF9809

Library &1 cannot be accessed.

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Work with Questions (WRKQST)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Questions (WRKQST) command allows you to review the questions asked. More information is available in the Basic system operations topic collection in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/.

Restriction: You must have read authority to the database.

Parameters

Keyword	Description	Choices	Notes
QSTDB	Q/A database	*Name*, ***SELECT**	Optional, Positional 1
LIB	Lib containing Q/A database	*Name*, ***QSTLIB**	Optional, Positional 2

Q/A database (QSTDB)

Specifies the Question-and-Answer (Q & A) database with which to work.

The possible values are:

*SELECT
You are asked to specify a Q & A database. If only one Q & A database exists on the system, it is the default.

question-database
Specify the name of the Q & A database with which to work.

Lib containing Q/A database (LIB)

Specifies the name of the library that contains the Q & A database.

The name of the Q & A database can be qualified by one of the following library values:

*QSTLIB
The library containing the specified Q & A database is searched. If *SELECT is specified on the QSTDB parameter, any Q & A database in any library to which you are authorized can be selected.

library-name
>> Specify the name of the library to be searched. If *SELECT is specified on the QSTDB parameter, any Q & A database in the library to which you are authorized can be selected.

Examples

```
WRKQST
```

This command shows the Work with Questions You Asked panel. If more than one database is available for selection, the Select Q and A Database display is shown first.

Error messages

None

Work with RDB Directory Entry (WRKRDBDIRE)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Relational Database Directory Entry (WRKRDBDIRE) command allows you to show and work with one or more entries from the relational database (RDB) directory.

With this command, you can do the following with the RDB directory:

- Add new entries
- Change existing entries
- Remove entries
- Show the details of an entry
- Print an entry
- Print a list of all entries

Parameters

Keyword	Description	Choices	Notes
RDB	Entry	*Generic name, name*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Entry (RDB)

Specifies the relational database directory entry. If an entry has no alias, the relational database name is used as the entry name. If an entry has an alias, the alias is used as the entry name.

*ALL   All entries in the relational database directory.

generic-name
          Specify the generic name of the relational database entries. A generic name is a character string that contains one or more characters followed by an asterisk (*).

name   Specify the name of the relational database directory entry.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

*PRINT
> The output is printed with the job's spooled output.

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Examples

Example 1: Displaying All Directory Entries

```
WRKRDBDIRE
```

This command shows a list of all relational database directory entries and allows you to work with them.

Example 2: Directing Information to a Spooled File

```
WRKRDBDIRE   RDB(YOURRDB)  OUTPUT(*PRINT)
```

This command directs the information from the relational database directory entry YOURRDB to a printer file.

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Error messages

*ESCAPE Messages

CPF3EC4
> Work with relational database directory entry failed.

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Work with Readers (WRKRDR)

The Work with Readers (WRKRDR) command shows the overall status of all defined spooling readers or it can show the detailed status of a specific reader. The status of the readers may change while the command is in process.

Parameters

Keyword	Description	Choices	Notes
RDR	Reader	*Name*, ***ALL**	Optional, Positional 1
OUTPUT	Output	*****, *PRINT	Optional, Positional 2

Reader (RDR)

Specifies whether overall status is given for all readers or detailed status is given for a specified reader.

*ALL   A list of all readers is displayed with information about each reader.

name   Specify the name of the reader whose detailed information is to be displayed.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed.

*   The output is displayed (if requested by an interactive job) or printed (if requested by a batch job).

*PRINT
   The output is printed.

Examples

Example 1: Working With All Readers
WRKRDR

This command allows you to work with the names of all readers, their types, device files, and status.

Example 2: Working With One Reader

```
WRKRDR    RDR(DISKREAD)
```

This command allows you to work with the detailed information about the reader DISKREAD.

Error messages

*ESCAPE Messages

CPF0941
Job &3/&2/&1 no longer in system.

CPF1070
Job &3/&2/&1 not found.

CPF1071
No authority to job &3/&2/&1.

CPF3302
Override of print file &1 to file &2 not valid.

CPF3312
Reader &1 neither active nor on job queue.

CPF3330
Necessary resource not available.

CPF3336
Job &5/&4/&3 no longer in the system.

CPF7D41
Error occurred while logging order assistance request.

CPF7D42
Error occurred while performing database operation.

CPF9845
Error occurred while opening file &1.

CPF9846
Error while processing file &1 in library &2.

CPF9871
Error occurred while processing.

Work with Registration Info (WRKREGINF)

The Work with Registration Information Command (WRKREGINF) shows information about exit points and exit programs. Information about a single exit point, multiple exit points and the exit programs associated with the exit points are displayed. The command is similar to the Retrieve Exit Information (QUSRTVEI) Application Programming Interface (API).

For more information on Registration Information refer to the APIs topic collection in the Programming category in the i5/OS Information Center at http://www.ibm.com/systems/i/infocenter/ book.

Parameters

Keyword	Description	Choices	Notes
EXITPNT	Exit point	*Generic name, name,* ***REGISTERED**, *UNREGISTERED, *ALL	Optional, Positional 1
FORMAT	Exit point format	*Generic name, name,* ***ALL**	Optional, Positional 2
OUTPUT	Output	*****, *PRINT	Optional

Exit point (EXITPNT)

Specifies the name of the exit point to work with.

The possible values are:

*REGISTERED
> All registered exit points are displayed. Registered exit points are exit points that were added to the registration facility.

*UNREGISTERED
> All unregistered exit points are displayed. Unregistered exit points are exit points that are created by the registration facility in the absence of the exit point at the time an exit program was added.

*ALL All registered and unregistered exit points are displayed.

exit-point
> Specify the name of the exit point that is to be displayed.

generic*-exit-point-name
> Specify a generic name for the exit point. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified, all exit points with names that begin with the generic name are shown.

Exit point format (FORMAT)

Specifies the format name of the exit point to work with.

The possible values are:

*ALL   All formats for the specified exit point are displayed.

format
> Specify the name of the exit point format.

generic*-format
> Specify a generic name for the exit point format. A generic name is a character string of one or more characters followed by an asterisk (*); for example, ABC*. If a generic name is specified, all formats that begin with the generic name are shown.

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Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

The possible values are:

*   The output is displayed.

*PRINT
> The output is printed with the job's spooled output.

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Examples

Example 1: Printing Registration Information

```
WRKREGINF   OUTPUT(*PRINT)
```

This command produces a report of all registered exit points and their exit programs using the QSYSPRT printer file.

Example 2: Displaying Registration Information

```
WRKREGINF   EXITPNT(*REGISTERED)   FORMAT(FMT*)
```

This command displays all registered exit points with a format name that starts with the letters 'FMT'.

<div align="right">Top</div>

Error messages

*ESCAPE Messages

CPF3CDA
> Registration facility repository not available for use.

CPF3CD9

Requested function cannot be performed at this time.

CPF3CEF

Error occurred displaying exit points.

CPF7D41

Error occurred while logging order assistance request.

CPF7D42

Error occurred while performing database operation.

CPF9871

Error occurred while processing.

Top

Work with Remote Definitions (WRKRMTDFN)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)	Parameters Examples
Threadsafe: No	Error messages

The Work with Remote Definitions (WRKRMTDFN) command can be used to work with entries in the remote system definition table.

Restriction: You must have *ALLOBJ authority to use this command.

There are no parameters for this command.

<div align="right">Top</div>

Parameters

None

<div align="right">Top</div>

Examples

WRKRMTDFN

This command shows the Work with Remote Definitions panel, from which you can add, change, remove, display, or print the remote definition for a particular system.

<div align="right">Top</div>

Error messages

*ESCAPE Messages

CPF6DCF
      Not authorized to perform functions.

CPF7D41
      Error occurred while logging order assistance request.

CPF7D42
      Error occurred while performing database operation.

CPF9871
      Error occurred while processing.

CPF9899
      Error occurred during processing of command.

<div align="right">Top</div>

Work with Reply List Entries (WRKRPYLE)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with System Reply List Entries (WRKRPYLE) command can be used to display or print all the reply entries currently in the system message reply list. The system reply list contains the replies that are automatically sent in response to inquiry messages. The following information is shown for each reply in the system reply list:

- Sequence number
- Message ID
- Reply
- Dump indication
- Compare value
- Compare start position

From this display, you can add, change, or remove individual reply list entries.

The reply list is only used when an inquiry message is sent by a job that has the inquiry message reply attribute of the system reply list specified (*SYSRPYL is specified for the INQMSGRPY parameter). The INQMSGRPY attribute can be changed with the CHGJOB command.

You can add reply list entries with the Add Reply List Entry (ADDRPYLE) command. Specific attributes of a reply list entry can be changed with the Change Reply List Entry (CHGRPYLE) command. Each reply list entry remains in the list until it is removed by the Remove Reply List Entry (RMVRPYLE) command.

Parameters

Keyword	Description	Choices	Notes
OUTPUT	Output	*, *PRINT	Optional, Positional 1

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

* The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
  The output is printed with the job's spooled output.

Examples

```
WRKRPYLE   OUTPUT(*PRINT)
```

This command prints the entries in the system reply list.

Error messages

ESCAPE Messages

CPF2435
> System reply list not found.

CPF2557
> System reply list damaged.

CPF2558
> System reply list currently in use.

CPF9845
> Error occurred while opening file &1.

CPF9846
> Error while processing file &1 in library &2.

CPF9847
> Error occurred while closing file &1 in library &2.

Work with RouteD Configuration (WRKRTDCFG)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

Parameters
Examples
Error messages

The Work with RouteD Configuration (WRKRTDCFG) command shows a list of Routing Information Protocol (RIP) configuration entries. From this list you can add, change, copy, remove or display the individual entries. You can also print the list. Each entry represents a RouteD option used by the RouteD server to determine how the server will operate.

There are no parameters for this command.

Restrictions:

You must have *IOSYSCFG special authority to add, change, copy, insert, or remove RouteD configuration entries. If you do not have *IOSYSCFG special authority, you can only display the configuration entries.

Top

Parameters

None

Top

Examples

WRKRTDCFG

This command displays the Work with RouteD Configuration menu.

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Error messages

<u>*ESCAPE Messages</u>

CPF6A50
>   Error was found during display file or printer file operation.

TCP1562
>   Cannot display work with panel.

TCP1571
>   Entry cannot be displayed.

TCP264D
>   Error occurred processing file.

TCP547D

Program &1 not able to create internal space.

TCP5480

Configuration file member &1 of file &3 in library &2 has reached the limit of 10000 entries.

TCP5483

Configuration file maximum record length not valid

TCP9503

File &3 in library &2 not available.

Top

Work with S/36 Configuration (WRKS36)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with System/36 (WRKS36) command shows the Work with System/36 Environment Configuration display.

There are no parameters for this command.

Parameters

None

Examples

WRKS36

This command displays the Work with System/36 Environment Configuration panel.

Error messages

None

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Work with S/36 Program Attr (WRKS36PGMA)

The Work with System/36 Program Attributes (WRKS36PGMA) command shows the Work with System/36 Program Attributes display. The display is a list of programs from a specified library.

Parameters

Keyword	Description	Choices	Notes
PGM	S/36 program	*Qualified object name*	Required, Positional 1
	Qualifier 1: S/36 program	*Name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

S/36 program (PGM)

Specifies the qualified name of the program.

The possible library values are:

*LIBL   The library list is used to locate the program.

*CURLIB
>   The current library for the job is used to locate the program. If no library is specified as the current library for the job, the QGPL library is used.

library-name
>   Specify the name of the library where the program is located.

The possible values are:

*ALL   All programs in the library are shown.

program-name
>   Specify a program name.

Examples

```
WRKS36PGMA   PGM(IDENTIFY)
```

This command displays the Work with S/36 Program Attributes panel, showing a list of attributes for program IDENTIFY which will be located using the library list.

Error messages

None

Work with S/36 Procedure Attr (WRKS36PRCA)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with System/36 Procedure Attributes (WRKS36PRCA) command shows the Work with System/36 Procedure Attributes display. The display is a list of procedures from a specified library.

Parameters

Keyword	Description	Choices	Notes
FILE	Source file	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Source file	*Name*, **QS36PRC**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
MBR	S/36 procedure member	*Name*, ***ALL**	Optional, Positional 2

Source file (FILE)

Specifies the name of the file being used by the program to which this command is applied.

The possible library values are:

*LIBL   The library list is used to locate the file.

*CURLIB

The current library for the job is used to locate the file. If no library is specified as the current library for the job, the QGPL library is used.

library-name

Specify the name of the library where the file is located.

The possible values are:

*QS36PRC

The default source physical file is used.

source-file-name

Specify the name of the source file.

S/36 procedure member (MBR)

Specifies the name of a procedure member file.

The possible values are:

[*ALL]{.underline}   The attributes of all procedure members in the file are specified.

procedure-member-name
> Specify a procedure member name.

Examples

```
WRKS36PRCA   FILE(RESEARCH)
```

This command displays the Work with S/36 Procedure Attributes panel, showing a list of attributes for all System/36 environment procedure members from file RESEARCH. The file is located using the library list.

Error messages

None

Work with S/36 Source Attr (WRKS36SRCA)

The Work with System/36 Source Attributes (WRKS36PRCA) command shows the Work with System/36 Source Attributes display. The display is a list of source members within a specified source file.

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Parameters

Keyword	Description	Choices	Notes
FILE	Source file	*Qualified object name*	Optional, Positional 1
	Qualifier 1: Source file	*Name*, **QS36SRC**	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	
MBR	S/36 source member	*Name*, ***ALL**	Optional, Positional 2

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Source file (FILE)

Specifies the name of the file being used by the program to which this command is applied.

The possible library values are:

*LIBL   The library list is used to locate the file.

*CURLIB
> The current library for the job is used to locate the file. If no library is specified as the current library for the job, the QGPL library is used.

library-name
> Specify the name of the library where the file is located.

The possible values are:

*QS36SRC
> The default source physical file is used.

source-file-name
> Specify the name of the source file.

Top

S/36 source member (MBR)

Specifies the name of a source member file.

The possible values are:

*ALL   The attributes of all procedure members in the file are specified.

procedure-member-name
        Specify a procedure member name.

<div align="right">Top</div>

Examples

```
WRKS36SRCA   FILE(MESSAGE)  MBR(TEXT)
```

This command displays the Work with S/36 Source Attributes panel, showing a list of attributes for System/36 environment source member TEXT from file MESSAGE. The file is located using the library list.

<div align="right">Top</div>

Error messages

None

<div align="right">Top</div>

Work with Submitted Jobs (WRKSBMJOB)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Submitted Jobs (WRKSBMJOB) command allows you to work with all jobs submitted from your work station, job, or user profile. Jobs submitted with *NO specified for the **Allow display by WRKSBMJOB (DSPSBMJOB)** parameter of a Submit Job (SBMJOB) command are not displayed by this command.

Parameters

Keyword	Description	Choices	Notes
SBMFROM	Jobs submitted from	*USER, *WRKSTN, *JOB	Optional, Positional 1
OUTPUT	Output	*, *PRINT	Optional, Positional 2

Jobs submitted from (SBMFROM)

Specifies the type of submitted jobs that are displayed.

*USER

> Jobs that were submitted from a job having the same user profile as the job in which this command is entered are displayed.

*JOB Jobs displayed that were submitted from the same job in which this command is entered are displayed.

*WRKSTN

> Jobs that were submitted from the same work station at which this command is entered are displayed.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT

> The output is printed with the job's spooled output.

Examples

```
WRKSBMJOB   SBMFROM(*USER)
```

This command allows you to work with or change a list of jobs that are submitted by a job running under the same user profile as the job where this command is run.

Error messages

*ESCAPE Messages

CPF9845
> Error occurred while opening file &1.

CPF9846
> Error while processing file &1 in library &2.

CPF9847
> Error occurred while closing file &1 in library &2.

CPF9850
> Override of printer file &1 not allowed.

CPF9851
> Overflow value for file &1 in &2 too small.

CPF9871
> Error occurred while processing.

Work with Subsystems (WRKSBS)

The Work with Subsystems (WRKSBS) command allows you to work with each active subsystem in the system. Also, if one of the subsystems shown on the display is selected, additional information listing all of the jobs active in that subsystem can be displayed.

Parameters

Keyword	Description	Choices	Notes
OUTPUT	Output	*, *PRINT	Optional, Positional 1

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
   The output is printed with the job's spooled output.

Examples

WRKSBS

This command, entered from a work station, allows you to work with active subsystems. If the command is entered from a batch job, the output information is directed to the job's output spooling queue and printed.

Error messages

*ESCAPE Messages

CPF9845
   Error occurred while opening file &1.

CPF9846

Error while processing file &1 in library &2.

CPF9847

Error occurred while closing file &1 in library &2.

CPF9850

Override of printer file &1 not allowed.

CPF9851

Overflow value for file &1 in &2 too small.

CPF9871

Error occurred while processing.

Top

Work with Subsystem Desc (WRKSBSD)

The Work with Subsystem Descriptions (WRKSBSD) command shows a list of subsystem descriptions and allows you to change, delete, display, start, and end specified subsystem descriptions. You can also work with subsystem jobs for a specified job description.

Restrictions:

1. Only the libraries to which you have USE authority will be searched.

2. Only the subsystem descriptions to which you have some authority will be shown on the display.

3. To perform operations on the subsystem descriptions, you must have USE authority to the command used by the operation, and the appropriate authority to the subsystem descriptions on which the operation is to be performed.

4. You must have object operational and object management authorities to the subsystem descriptions.

Parameters

Keyword	Description	Choices	Notes
SBSD	Subsystem description	*Qualified object name*	Required, Positional 1
	Qualifier 1: Subsystem description	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Subsystem description (SBSD)

Specifies the name and library of the subsystem descriptions that are listed on the Work with Subsystem Descriptions display.

This is a required parameter.

The possible values are:

*ALL   All subsystem descriptions are listed.

generic*-subsystem-description-name
> Specify the generic name of the subsystem descriptions. A generic name is a character string that contains one or more characters followed by an asterisk (*). For example, ABC*.

subsystem-description-name
> Specify the name of the subsystem description to be listed. If *LIBL or *USRLIBL is specified as the library name, only the first subsystem description found with the specified name is listed.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL
If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR
All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

```
#CGULIB      #DSULIB      #SEULIB
#COBLIB      #RPGLIB
#DFULIB      #SDALIB
```

Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

```
QDSNX        QRCLxxxxx    QUSRDIRDB    QUSRVI
QGPL         QSRVAGT      QUSRIJS      QUSRVxRxMx
QGPL38       QSYS2        QUSRINFSKR
QMGTC        QSYS2xxxxx   QUSRNOTES
QMGTC2       QS36F        QUSROND
QMPGDATA     QUSER38      QUSRPOSGS
QMQMDATA     QUSRADSM     QUSRPOSSA
QMQMPROC     QUSRBRM      QUSRPYMSVR
QPFRDATA     QUSRDIRCF    QUSRRDARS
QRCL         QUSRDIRCL    QUSRSYS
```

1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL All libraries in the system, including QSYS, are searched.

name Specify the name of the library to be searched.

Examples

```
WRKSBSD    SBSD(LIB6/ORDER*)
```

This command displays the Work with Subsystem Descriptions panel, showing a list of all subsystem descriptions in library LIB6 whose names start with the letters 'ORDER'. From this panel, you can select options to work with any of the listed subsystem descriptions.

Error messages

*ESCAPE Messages

CPF9809

Library &1 cannot be accessed.

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Work with Subsystem Jobs (WRKSBSJOB)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Work with Subsystem Jobs (WRKSBSJOB) command allows you to work with jobs running in subsystems in the system, and jobs that are on a job or output queue. If a user name is specified, only those jobs belonging to the specified user are shown. Also, if one of the jobs shown on the subsystem display is selected, additional information about that job can be displayed.

Parameters

Keyword	Description	Choices	Notes
SBS	Subsystem	*Name*, ***ALL**, *JOBQ, *OUTQ	Optional, Positional 1
USER	User whose jobs to display	*Name*, ***ALL**	Optional
OUTPUT	Output	*****, *PRINT	Optional

Subsystem (SBS)

Specifies the name of the subsystem (or all subsystems) for which the job name and job status of each job currently active in the subsystem, or jobs on a job queue or output queue are worked with.

*ALL   All jobs in all subsystems have their job information displayed. In this case, jobs that are on job queues and on output queues are also displayed.

*JOBQ
>Jobs that are on a job queue are worked with.

*OUTQ
>Jobs that have completed running and have spooled files on an output queue are worked with.

>**Note:** This includes readers and writers, but does not include system jobs or subsystem monitor jobs.

name   Specify the name of the subsystem. All active jobs in this subsystem are displayed.

User whose jobs to display (USER)

Specifies the name of the user whose jobs are displayed.

*ALL   All jobs being processed under all user names are displayed.

name   Specify a user name. All jobs with this user name are displayed.

Output (OUTPUT)

Specifies whether the output from the command is displayed at the requesting work station or printed with the job's spooled output.

*   The output is displayed for interactive jobs or printed with the job's spooled output for non-interactive jobs.

*PRINT
        The output is printed with the job's spooled output.

Examples

Example 1: Working With All Jobs

WRKSBSJOB

This command, entered from a work station, allows you to work with all jobs in all subsystems, and the jobs on the job queues and output queues.

Example 2: Working With One User's Job

WRKSBSJOB   SBS(QBATCH)   USER(JONES)

This command allows you to work with all jobs in the QBATCH subsystem that belong to the user profile of the user named JONES.

Example 3: Working With Jobs on an Output Queue

WRKSBSJOB   SBS(*OUTQ)

This command allows you to work with jobs that are on an output queue.

Error messages

*ESCAPE Messages

CPF1003
        Subsystem &1 not active.

CPF9846
        Error while processing file &1 in library &2.

CPF9847
        Error occurred while closing file &1 in library &2.

CPF9850
        Override of printer file &1 not allowed.

CPF9851
        Overflow value for file &1 in &2 too small.

CPF9871

   Error occurred while processing.

Work with Search Indexes (WRKSCHIDX)

Where allowed to run: Interactive environments (*INTERACT *IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Search Indexes (WRKSCHIDX) command allows you to show a list of search indexes from one or more libraries.

Restriction:

- Only the libraries to which you have use (*USE) authority will be searched.
- Only the search indexes forms to which you have some authority will be shown on the display.
- To work with search index entries, you must have *USE authority to the Work with Search Index Entries (WRKSCHIDXE) command, and change (*CHANGE) authority for the search index.

Parameters

Keyword	Description	Choices	Notes
SCHIDX	Search index	*Qualified object name*	Required, Positional 1
	Qualifier 1: Search index	*Generic name, name*, *ALL	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB, *USRLIBL, *ALLUSR, *ALL	

Search index (SCHIDX)

Specifies the search indexes to be shown.

This is a required parameter.

Qualifier 1: Search index

*ALL All search indexes are shown.

generic-name
Specify the generic name of the search indexes to be shown. A generic name is a character string that contains one or more characters followed by an asterisk (*). If a generic name is specified, all search indexes that have names with the same prefix as the generic name are shown.

name Specify the name of the search index to be shown.

Qualifier 2: Library

*LIBL All libraries in the library list for the current thread are searched. All objects in these libraries with the specified object name are shown.

*CURLIB
The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

*USRLIBL

> If a current library entry exists in the library list for the current thread, the current library and the libraries in the user portion of the library list are searched. If there is no current library entry, only the libraries in the user portion of the library list are searched.

*ALLUSR

> All user libraries are searched. All libraries with names that do not begin with the letter Q are searched except for the following:

#CGULIB	#DSULIB	#SEULIB
#COBLIB	#RPGLIB	
#DFULIB	#SDALIB	

> Although the following Qxxx libraries are provided by IBM, they typically contain user data that changes frequently. Therefore, these libraries are considered user libraries and are also searched:

QDSNX	QRCLxxxxx	QUSRDIRDB	QUSRVI
QGPL	QSRVAGT	QUSRIJS	QUSRVxRxMx
QGPL38	QSYS2	QUSRINFSKR	
QMGTC	QSYS2xxxxx	QUSRNOTES	
QMGTC2	QS36F	QUSROND	
QMPGDATA	QUSER38	QUSRPOSGS	
QMQMDATA	QUSRADSM	QUSRPOSSA	
QMQMPROC	QUSRBRM	QUSRPYMSVR	
QPFRDATA	QUSRDIRCF	QUSRRDARS	
QRCL	QUSRDIRCL	QUSRSYS	

> 1. 'xxxxx' is the number of a primary auxiliary storage pool (ASP).
> 2. A different library name, in the format QUSRVxRxMx, can be created by the user for each previous release supported by IBM to contain any user commands to be compiled in a CL program for the previous release. For the QUSRVxRxMx user library, VxRxMx is the version, release, and modification level of a previous release that IBM continues to support.

*ALL All libraries in the system, including QSYS, are searched.

name Specify the name of the library to be searched.

Examples

```
WRKSCHIDX   SCHIDX(*ALL)
```

This command displays the Work with Search Indexes panel, showing a list of all the search indexes in the library list.

Error messages

*ESCAPE Messages

CPF9809

> Library &1 cannot be accessed.

Work Search Index Entry (WRKSCHIDXE)

Where allowed to run: Interactive environments (*INTERACT
*IPGM *IREXX *EXEC)
Threadsafe: No

The Work with Search Index Entries (WRKSCHIDXE) command allows you to add entries to and remove entries from a search index, and to display the details of a search index entry.

Restrictions:

- You must have change (*CHANGE) authority for the search index for which you want to display, add, or remove entries.

Parameters

Keyword	Description	Choices	Notes
SCHIDX	Search index	*Qualified object name*	Required, Positional 1
	Qualifier 1: Search index	*Name*	
	Qualifier 2: Library	*Name*, ***LIBL**, *CURLIB	

Search index (SCHIDX)

Specifies the search index that contains the entries you want to display, add, or remove.

This is a required parameter.

Qualifier 1: Search index

name   Specify the name of the search index.

Qualifier 2: Library

*LIBL   All libraries in the library list for the current thread are searched until the first match is found.

*CURLIB
     The current library for the job is used to locate the search index. If no library is specified as the current library for the job, QGPL is used.

name   Specify the name of the library where the search index is located.

Examples

```
WRKSCHIDXE   SCHIDX(*LIBL/PAYROLL)
```

This command displays the Work with Search Index Entries panel, showing a list of panel group objects added to the search index PAYROLL. The search index is found by searching the library list.

Error messages

None

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