
Find Member – z/OS application

v 012

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New in this build

Will only allow a single database for both dataset- and member information.
You can now (should) have the WFMSET and other locally customized members in a separate library, see 'The SETLIB feature' below for details.

Introduction

The Find Member application allows you to find any PDS/PDSE member accessible from the system you are working on. The dialog allows you to browse, edit or view the member and the dataset – if you have the security rights to do so.

The user interface is built on ISPF, so provides a common look-and-feel.

The information is not real-time, but can get as close to it as the organisation deems necessary.

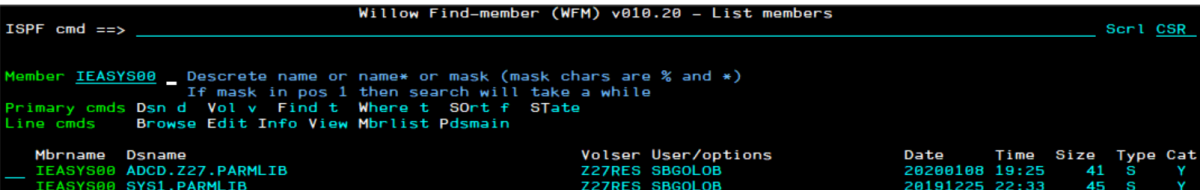
Datasets are located by volume, so catalogued as well as no-catalogued datasets are found. Note that the physical dataset name is stored, not any dataset alias that might associated with the dataset.

Using Find Member dialogs

Direct TSO/ISPF command

Enter the command FINDMBR followed by a member name like FINDMBR IE%SYS*. You will initially be presented with the member list/selection panel.

Member list/selection panel



| Willow Find-member (WFM) v010.20 - List members | | | | | | | | | |
|---|------------------|--------|--------------|----------|-------|------|------|-----|--|
| ISPF cmd ==> _____ Scr1 CSR_ | | | | | | | | | |
| Member IEASYS00 - Discrete name or name* or mask (mask chars are % and *) | | | | | | | | | |
| If mask in pos 1 then search will take a while | | | | | | | | | |
| Primary cmds Dsn d Vol v Find t Where t SOrt f SState | | | | | | | | | |
| Line cmds Browse Edit Info View Mbrlist Pdsmain | | | | | | | | | |
| Mbrname | Dsname | Volser | User/options | Date | Time | Size | Type | Cat | |
| IEASYS00 | ADCC.Z27.PARMLIB | Z27RES | SBGOLOB | 20200108 | 19:25 | 41 | S | Y | |
| IEASYS00 | SYS1.PARMLIB | Z27RES | SBGOLOB | 20191225 | 22:33 | 45 | S | Y | |

The panel is used both for entering a member name/mask to search for and to list the results.
Use the 'Membername' field for entering the name or name mask to search for. The following formats are supported

- Discrete name The full member name, i.e. AXR00
- Name with wildcards Use % for one-char and * for zero-or-none, i.e IE%SYS* or IE*SY*.
A word of caution, if the first character of the member name is a wildcard then the entire member database will have to be read, which will take some time.

If you change the name a new list is generated.

The list section will list each matched member, with the following additional information, depending on the screen width:

- Dataset name.
- Volume where the dataset was when the info was generated.
- The id of the user who did the latest change (if ISPF statistics exist)
- The date of the latest change if available. This is either from ISPF statistics, or the link date.
- The size of the member, if available.
- The member type, S for source or L for loadmodule.
- Is the dataset catalogued to the volume listed, Y for yes or N for no.

Primary commands

| | |
|--------------|--|
| Dsn name | Switch to the dataset list screen, optionally with an initial datasetname. |
| Vol name | Switch to the volume list screen, optionally with an initial volser. |
| Adm | Switch to the administration tasks screen. |
| ALL | Show all records (alias for the RESET command). |
| Find [t_[d]] | Find text t with optional direction d from the current top line. t must be quoted if it contains one of the direction keywords. d can be FIRST, LAST, PREV or NEXT, where NEXT is default. Note that d may actually be specified before t and Find may be entered without any parameters for a repeated find (though only for NEXT). |
| RESet | Show all lines, used after the Where command. |
| SORT_n | Sort by name. The valid sort criteria are NAME, DSNAME, DSN, or DATE. Null equals name. DATE will actually sort by date and time. |
| State | Show state of and some statistics for the databases etc. |
| Where_t | Show only lines containing t. t is case insensitive. |

Line commands

| | |
|----|--|
| B | Browse the member |
| DM | Go to the 'dataset' menu, using the dataset from the selected line. |
| E | Edit the member |
| I | Info, show all available information for the member. |
| M | Open ISPF memberlist for the dataset. |
| P | Start PDSMAIN (PDS86) for the dataset. Only if PDSMAIN is installed. |
| V | View the member |
| VM | Go to the 'volume' menu, using the volser from the selected line. |

Dataset list/selection panel

```

ISPF cmd ==> Willow Find-member (WFM) v010.20 - List datasets Scr1 CSR
Dsname SYS1.PARMLIB Descrete name or name* or mask (mask chars are % and *)
If mask in pos 1 then search will take a while
Primary cmds Mbr m Vol v Find t Where t SORT f STate
Line cmds Browse Dsnlist Edit View Mbrlist Pdsmain
Dsname Volser Ty Do Rf Lrac1 Blksz Membn Cat
SYS1.PARMLIB Z27RES S PO FB 80 6160 231 Y

```

The panel is used both for entering a dataset name/mask to search for and to list the results.

Use the 'Dsname' field for entering the name or name mask to search for. The following formats are supported

| | |
|---------------------|--|
| Discrete name | The full member name, i.e. SYS1.MACLIB |
| Name with wildcards | Use % for one-char and * for zero-or-none, i.e SYS*MAC*. A word of caution, if the first character of the name is a wildcard then the entire dataset database will have to be read, which may take some time. |

If you change the name a new list is generated.

The list section will list each matched dataset, with the following additional information, depending on the screen width:

- Dataset name.
- Volume where the dataset was when the info was generated.
- The dataset type, S for source or L for loadlib.
- Dataset organisation, PO for standard partitioned, PE for a library.
- Record format.
- Record length.
- Blocksize.
- Number of members (may not be set).
- Is the dataset catalogued to the volume listed, Y for yes or N for no.

Primary commands

| | |
|--------------|--|
| Mbr name | Switch to the member list screen, optionally with an initial member name. |
| Vol name | Switch to the volume list screen, optionally with an initial volser. |
| Adm | Switch to the administration tasks screen. |
| ALL | Show all records (alias for the RESET command). |
| Find [t_[d]] | Find text t with optional direction d from the current top line. t must be quoted if it contains one of the direction keywords. d can be FIRST, LAST, PREV or NEXT, where NEXT is default. Note that d may actually be specified before t and Find may be entered without any parameters for a repeated find (though only for NEXT). |
| RESet | Show all lines, used after the Where command. |
| SORT_n | Sort by name or volser. The valid sort criteria are NAME, DSNAME or VOLSER. Null equals name. |
| State | Show state of and some statistics for the databases etc. |
| Where_t | Show only lines containing t. t is case insensitive. |

Line commands

| | |
|----|---|
| B | Browse the dataset. |
| E | Edit the dataset. |
| D | Start a datasetlist for the dataset. |
| DM | Display all database member entries for the dataset – may take a long time. |
| M | Open ISPF memberlist for the dataset. |
| P | Start PDSMAIN (PDS86) for the dataset. Only if PDSMAIN is installed. |

- V View the member
- VM Go to the 'volume' menu, using the volser from the selected line.

Volume list/selection panel

```
ISPF cmd ==> Willow Find-member (WFM) v010.20 - List volsers Scr1 CSR
Volser SYSAU* - Discrete name or name* or mask (mask chars are % and *)
                If mask in pos 1 then search will take a while
Primary cmds Mbr m Dsn d Find t Where t SState
Line cmds   Datasets
Volser Datasets total=552
SYSAU1 274
SYSAU2 278
```

The panel is used both for entering a volser name/mask to search for and to list the results. Use the 'Volser' field for entering the name or name mask to search for. The following formats are supported

| | |
|---------------------|--|
| Discrete name | The full name, i.e. SYSTEM |
| Name with wildcards | Use % for one-char and * for zero-or-none, i.e SYS*. A word of caution, if the first character of the name is a wildcard then the entire dataset database will have to be read, which may take some time. |

If you change the name a new list is generated.

The list section will list each matched dataset, with the following additional information, depending on the screen width:

- Volser.
- Number of datasets (may not be set).

Primary commands

| | |
|--------------|--|
| Dsn name | Switch to the dataset list screen, optionally with an initial volser. |
| Mbr name | Switch to the member list screen, optionally with an initial member name. |
| Adm | Switch to the administration tasks screen. |
| ALL | Show all records (alias for the RESET command). |
| Find [t_[d]] | Find text t with optional direction d from the current top line. t must be quoted if it contains one of the direction keywords. d can be FIRST, LAST, PREV or NEXT, where NEXT is default. Note that d may actually be specified before t and Find may be entered without any parameters for a repeated find (though only for NEXT). |
| RESet | Show all lines, used after the Where command. |
| State | Show state of and some statistics for the databases etc. |
| Where_t | Show only lines containing t. t is case insensitive. |

Line commands

- D Start a dataset list for the volume.
- DD Display all database dataset entries for the volume.

Administration and maintenance tasks panel

```
ISPF cmd ==> Willow Find-member (WFM) v011.04 - Administrator tasks Scr1 CSR

Primary cmds Dsn d Mbr m VOL v Find t Where t State
Line cmds   Select (default) Edit

List or maint by records
__ JDBLIST   List db entries
__ JDBDDORP  Delete orphaned dataset- and associated member records
__ JDBDDUP   Delete duplicate dataset- and associated mbr records
__ JDBMDORP  Delete orphaned member records
__ JDBUPD    Add or delete records by various criteria
__ JSYNCOV01 Synchronize volsers
__ JXREFDV   Cross-ref database and VTOC

Parmlib
__ Editparm  Edit parmliib

Create or copy databases
__ JMKDB1    DB create
__ JDBUNLD   DB unload sample
__ JDBRELD   DB reload sample
__ JMK1DB    DB create single db from dsn+mbr dbs

Installation tasks
__ WFMSET    Edit settings
__ WFMLIB    Edit WFM library
__ JMKPARML  Create parmliib
__ JMKLOADL  Load programs to local pgmlib
__ JMKPRDL   Create local lib
__ JDBDELSR  Delete database seed records
```

The panel is used both for selecting administration tasks. The tasks are jobs, which are generated either directly from stored information and / or by displaying a prompt panel. All tasks are safe to select, no jobs are submitted directly.

Daily update

The update job extracts and processes SMF records type 15 (dataset update), 17 (dataset scratch) and 18 (dataset rename). The distribution library contains these 2 samples:

JOBUPDSH reads from SMF history dataset
JOBUPDSL reads from SMF logstream.

Whatever the method, the job structure is the same: extract SMF, use SORT ICETOOL to get latest record for dataset, delete all records relating to the datasets, add new records. The update job will log the date of latest extract so that the next run automatically continues where the last left.

The DATE= parameter is only used if you want to extract from a specific date range. The default is to read the xx.PARM member LASTDATE.

You can filter the disk volser list just before the update steps by using the WFMVSL proc. This can be useful if you are not quite sure what VTOC ALL or the SMF extractor steps will pull in. Both jobs JOBUPDSH and JOBUPDSL has the WFMVSL step as a comment.

If you need to restart the update job, you must review the LASTDATE member in the PARM lib. Set the 1st date value to the value after 'was:'.

You can use the WFMSMX to pull SMF types 15, 17 and 18 as part of a SMF Dump process. This will make a much smaller dataset for WFMSMH.

Installation

Ensure that SMF record types 15, 17 and 18 are captured and kept.

Un-xmit and load the WFM lib dataset (you probably have done that already if you are reading this).

Read the WFMDOC member as it will have the newest information.

Edit the WFMSET member. Do not worry if the values refer to non-existing datasets, they will be created later.

Execute the dialog member WFMDIALG, ignore any messages about non-existing datasets.

Enter command ADM to start the administration sub-menu.

From the 'Installation tasks' section, select the tasks JMKSETLB and JMKLOAD, verify and run the jobs. JMKLOAD will install the freeware programs PDSMAIN (PDS86), REXXVARS, RXSAFCHK, RXUCBSCN, RXVSAMBA and VTOC. If you have those installed already then you can ignore the JMKLOADL job. Just note that RXVSAMBA must be at least build 030.4.

From the 'Create or copy databases' section, select 'JDBCR', verify and run the job.

From the 'Parmlib' section, select 'Edit parmliib', then edit the VOLSEL member. You should also select 'WFMJOBPM Edit job parameters'.

From the 'List or maint' section select JDBUPD 'Add or delete records by various criteria', use the MD line command to change the 'ADDVOL command to text, then change 'volser' to one of your disks and run the job. If no error messages, then change PM='MSGLVL(1) TYPRUN(SIM)' to PM='MSGLVL(1)' and run the job again to verify the installation.

Exit the dialog.

Update the WFMDIALX member with the names for the install- and setlib respectively.

Execute the WFMDIALX member. Search for a member from the datasets you just loaded to verify the installation.

Determine which daily update job to use JDAILYH for SMF history, or JDAILYL if you use the SMF logger. Update the selected job.

Installation notes

The newest versions of my freeware programs REXXGBLV, REXXVARS, RXSAFCHK and RXUCBSSCN are all found on my website <http://harders-jensen.com/wjtech/programs.html>

Some of the freeware programs are also found on the www.cbttape.org website as follows: PDS86 in file182, REXXVARS and RXSAMBA in file669 and VTOC in file112.

If you do not yet have an easy method for updating the ISPF command table(s) then take a look at the programs ISPCMDU and ISPCTE at <http://harders-jensen.com/wjtech/programs.html>

Upgrade

How to migrate from earlier releases.

Notes

- Build 011 requires RXVSAMBA build 030.4 or later.
- The build 006 changes the database key length, so you must reorganize the databases before running the first daily update job, see below.

Upgrade

Copy member VOLSEL from your current lib to the new set-lib.

Review the new WFMPROC JCL procedure.

If you are upgrading from two databases, the select the 'JDBCVD DB convert two v010 databases into one v012' from the 'Create or copy database' section, otherwise select 'JDBCVD DB convert consolidated v011 database to v012'.

Update the new WFMSET member.

If you are upgrading from build 005 or earlier, then you must use the ADM command to start the administrator sub-dialog and then select and run these jobs:

- JDBUNLD DB unload
- JMKDBS DB create
- JDBRELD DB reload

Update the new WFMDIALX member and test it.

Copy the WFMPROC JCL procedure to the new set-lib.

Test the batch jobs by running the JDBLIST job from the Admin section of the dialog.

Backup your current lib.

Select 'JMKPRDL Create or update local lib' in the 'Installation tasks' section, review and run job.

Copy / update the WFMDIALX member to a system SYSEXEC lib.

Update you 'daily' job(s).

Performance considerations

The PDSMAIN (PDS86) program should be in LPALIB as it is used a lot by the load- and update jobs. The RXVSAMBA and VTOC programs are used a lot less, but may still be copied to LPALIB. If you cannot add the programs to LPA, then you could at least execute them from VIO as follows:

- Edit the JOBUPDxx member you want to run, add the following after EXEC WFMCTL:
`// EXEC WFMVPG,LOADLIB='loadlib.with.programs'`
- Update the WFMSTEPL member:
`//STEPLIB DD DISP=SHR,DSN=&&VIOLIB`

Security considerations

The databases, the ddialog lib and the parm lib are read directly by the dialog, so must have universal access READ.

The userid for the update job must be able to read all PDS/PDSE datasets, so it is recommended that the userid has OPERATIONS attribute.

Contact

If you have questions, suggestions or find something that doesn't work then please send an email to me at willy@harders-jensen.com .