Interactive System Productivity Facility (ISPF)

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ISPF Hidden Treasures and New Features

SHARE 115
Sessions 7547 & 7550

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Interactive Program Development Facility (ISPF)

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Hidden Treasures and New Features in ISPF

- Data Set List
  - ► DSLIST Command
  - ► Recent Enhancements

- Member List
  - ► Recent Enhancements

- Edit
  - ► COMPARE Command
  - ► Recent Enhancements

- Connect Without GUI

- z/OS UNIX Support
  - ► Directory List Utility
  - ► Edit and Browse
  - ► ASCII Edit
  - ► UDLIST Command

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Hidden Treasures and New Features in ISPF…

- Multiple Screen Support
  - ► SWAPBAR

- Display System & User Id

- ISPF Client Gateway – ISPF from the Internet

- User Command Tables
  - ► ISPF Table Utility

- ISRDDN Utility

- Autotype Function

- ISRDTLCV macro

- Calendar with Notebook

- ISPF Productivity Tool

DSLIST

- **DSLIST *personal_list_name | pattern***
  - ► If a list name exists by that name, a data set list will be built based on the entries in the list
  - ► If a list name does not exist, the parameter is treated as a pattern

- **APPEND** command from within Data Set List
  - ► Adds entries to the displayed list
  - ► specify a personal list name or a pattern

- **REFRESH** command from within Data Set List
  - ► Refreshes display to original list filter criteria

- **EXCLUDE** command and X line command from within Data Set List
  - ► Excludes data sets displayed in list
  - ► Shadow line displayed

New Data Set List Commands - z/OS 1.2

- **MEMBER command**
  - ► allows the partitioned data sets in the list to be searched for a specific member name or pattern
  - ► Syntax: **Member *string* [X|EX|NX][RECALL1|RECALL2]**
  - ► Message field identifies data sets containing the member(s)

- **SRCHFOR command**
  - ► Invokes SuperC to search the listed data sets for strings
  - ► Syntax: **SRCHFOR [*string*]**
  - ► Displays panel used to specifying options for SuperC
  - ► Message field identifies data sets containing the string
  - ► SuperC output written to data set
  - (default: ***userid*.SRCHDSL.LIST**)

Data Set List Enhancements

- **Enhanced SORT command (z/OS 1.7)**
  - ► Provides ability to sort a data set list in ascending or descending order
  - ► Syntax: **SORT major-field [A|D] [minor-field] [A|D]**

- **Display Total Tracks Value (z/OS 1.9)**
  - ► New **Display Total Tracks** option added to the Data Set List Utility entry panel
  - ► If selected, an additional header line showing the total tracks used by the data sets is displayed with the **Space** and **Total** views
  - ► Pop-up window showing data collection progress displayed when calculating total tracks for a list of 50 or more data sets

Data Set List Enhancements. . .

- **Block Line Commands (z/OS 1.10)**
  - ► Allows Data Set List line commands to be entered in blocks
  - ► A block of line commands is marked by entering two forward slash characters (**//**) at the start and end of the block
  - ► The required line command is entered on the first or last line of the block, immediately following the two forward slash characters
  - ► All line commands, including TSO commands, Clists and REXX execs can be executed as block commands

- **Include PREFIX in Dsname Level (z/OS 1.11)**
  - ► New **Prefix Dsname Level** option added to the Data Set List Utility entry panel
  - ► If selected, ISPF will add the TSO prefix (if the user's TSO profile has PREFIX defined) as the first qualifier if the Dsname Level entered is not enclosed in quotes

---

New Member List Commands - z/OS 1.5

- **SRCHFOR command**
  - ► Invokes SuperC to search the listed members for strings
  - ► Syntax: **SRCHFOR [*string*]**
  - ► Displays panel used to specifying options for SuperC
  - ► PROMPT column identifies members containing the string
  - ► SuperC output written to data set
  - (default: **userid.SRCHML.LIST**)

- **SORT PROMPT command**
  - ► Sorts members with messages in the PROMPT column to the top of the member list
  - ► Use after SRCHFOR command to group all members containing *string* at the top of the member list

Member List Enhancements

- **Enhanced SORT command (z/OS 1.7)**
  - Provides ability to sort a data set list in ascending or descending order
  - Syntax: `SORT major-field [A|D] [minor-field] [A|D]`

- **New FILTER command (z/OS 1.8)**
  - Used to display only those members having an attribute matching a specified value
  - Syntax: `FILTER [field operator value]`
    - `field`   member list column name
    - `operator`   EQ, NE, LE, LT, GE, or GT
    - `value`   the comparison value
  - Member List SRCHFOR command also enhanced to optionally display only those members containing the SRCHFOR string

Edit COMPARE Command

- Syntax: `COMPARE [member|data_set_name|NEXT|* [X] [SYSIN]]`
- Uses SuperC APIs to compare to data sets or members
- Changes are highlighted depending on if the change is new to the source (member or data set where COMPARE command was issued), only in the target, or common
- **NEXT** compares next member in hierarchy of ISPF library
- **X** excludes common lines except for a few around differences
- SYSIN DD has additional SuperC Process Statements

only in "target" (NEXT in this case) MD to "make data"
new in "source"
common
common lines excluded by X parameter

```
VIEW       PDFTDEV.STG.GML(ISPCMDS) - 01.03          Changes are shown
Command ===> _____ Scroll ===> CSR
000052      altdescr="CMDE")
======     <cmdact action="SELECT PGM(ISPCCMDE)")
.0AAAA     <cmdact action="SELECT PGM(ISPCCMDE) SUSPEND")
000054
000055   (:--------------------------------------------- COLOR -------)
000056   <cmd name=COLOR
000057      altdescr="INVOKE GLOBAL COLOR CHANGE UTILITY">
000058   <cmdact action=
- - - - - - - - - - - - - - - - - - - -   350 Line(s) not Displayed
000409      altdescr="Turn ISPF/TSO GUI WINDOW ON or OFF">
000410   <cmdact action="SELECT PGM(ISPISM) PARM(TSOGUI,&amp;ZPARM)">
```

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Edit COMPARE Enhancement (z/OS 1.11)

- The SYSIN keyword on the COMPARE command is enhanced to support a sub-parameter

  - User can specify the SuperC process statements data set name as a sub-parameter of the SYSIN keyword

    Syntax: **SYSIN(dsn)**

  - Alternatively, the user can request the display of a pop-up panel where the SuperC process statements data set name can be entered

    Syntax: **SYSIN(/)**

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New Edit Primary Commands - z/OS 1.6

- **HIDE command**
  - Removes excluded line messages from the Edit/View display
  - Line number underscored to indicate "hidden" line(s)
  - Syntax: **HIDE X**
  - **RESET** primary command has **HIDE** option to allow redisplay of excluded line messages
    - Syntax: **RESET HIDE**

- **COLS command**
  - Causes a columns line to be displayed at the top of each Edit/View data screen (i.e. stays with the Edit/View display)
  - Syntax: **COLS [ON|OFF]**

Other Edit Enhancements

- **UNDO after SAVE (z/OS 1.9)**
  - ► Allows reversal of edit changes made prior to SAVE commands during the current edit session

  - ► New KEEP option added to the edit SETUNDO command
    - •Syntax:

```
                        +-STORAGE-+
>>----SETUNDO----+--------+-------------><
      +-SETU---+   +-RECOVER-|
                     +-ON-----|
                     +-OFF----|
                     +-KEEP----+
```

    - •Where:

    - **KEEP** Has the same effect as STORAGE and also prevents the SAVE command from clearing the UNDO buffers in storage

---

Other Edit Enhancements. . .

- **Multiple Targets for MOVE/COPY (z/OS 1.10)**
  - ► Suffix of K (keep) can now be used with MOVE/COPY destination line commands A, B, O and OO

    - •Enter **AK**, **BK**, **OK**, or **OOK** line commands to indicate a multiple target MOVE/COPY command

    - •Enter 'final' destination line command (A, B, O or OO) to initiate the 'multiple target' MOVE/COPY

    - •'Final' destination must be after the line where the AK, BK, OK, or OOK command was entered

Other Edit Enhancements. . .

- **New Edit Line Commands for HEX Display (z/OS 1.11)**
  - ► New edit line commands to display selected lines in hexadecimal format:

    HX   display a single line in hexadecimal format

    HXX   display a block of lines in hexadecimal format

  - ► The **HX** and **HXX** line commands act as a toggle by switching a line's display format between normal and hexadecimal format

---

Connect Without GUI

- **SETTINGS**
  - ► Workstation pulldown (or **GUIINIT**)
    - – Workstation connection
    - – Without GUI display

  - ► Allows workstation commands
    - – **FILEXFER**
    - – Edit on workstation
    - – **SELECT WSCMD**

z/OS UNIX Directory List Utility (z/OS 1.8)

- Available as ISPF option 3.17
- Provides most of the functions supported by the ISHELL utility

```
  Menu  Utilities  Options  Help
                         z/OS UNIX Directory List Utility
Option ===> _____

  blank Display directory list              P Print directory list

  Pathname . . . /u/pvanduk_____ *

Enter "/" to select option
/  Confirm File Delete
/  Confirm Non-empty Directory Delete
When the directory list is displayed, enter either:
  "/" on the directory list line command field for the command prompt pop-up,
  an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
  "=" to execute the previous command.




  Time zone WAT-8 is used to calculate the displayed date and time values.
F9=Swap      F10=Actions   F12=Cancel
```

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z/OS UNIX Directory List Utility. . .

- Horizontal scrolling via the RIGHT and LEFT primary commands
- Column order and size can be customized via Options pull-down

```
  Menu  Utilities  View  Options  Help
                         z/OS UNIX Directory List              Row 1 to 20 of 25
Command ===> _____ Scroll ===> PAGE

Pathname . : /SYSTEM/etc

Command  Filename        Message         Type Permission Audit  Ext  Fmat Owner
--------------------------------------------------------------------------------
_____ .                                Dir  rwxr-xr-x  fff---           IBMUSER
_____ ..                               Dir  rwxr-xr-x  fff---           IBMUSER
_____ .nfsc                            File rw-r--r--  fff--- --s- ---- IBMUSER
_____ ant.conf                         File rwxrwxrwx  fff--- --s- ---- IBMUSER
_____ bpa                              Dir  rwxr-xr-x  fff---           IBMUSER
_____ cmx                              Dir  rwxr-xr-x  fff---           IBMUSER
_____ dce                              Dir  rwxr-xr-x  fff---           IBMUSER
_____ dfs                              Dir  rwxr-xr-x  fff---           IBMUSER
_____ inetd.conf                       File rwxrwxrwx  fff--- --s- ---- IBMUSER
_____ inetd.pid                        File rw-r--r--  fff--- --s- ---- IBMUSER
_____ ioepdcf                          Syml rwxrwxrwx  fff---           IBMUSER
_____ ldap                             Dir  rwxr-xr-x  fff---           IBMUSER
_____ licmgmt                          Dir  rwxr-xr-x  fff---           IBMUSER
_____ log                              File rw-rw----  fff--- --s- ---- IBMUSER
_____ pkiserv                          Dir  rwxr-xr-x  fff---           IBMUSER
_____ profile                          File rwxr-xr-x  fff--- --s- ---- IBMUSER
_____ security                         Dir  rwxr-xr-x  fff---           IBMUSER
_____ skrb                             Dir  rwxr-xr-x  fff---           IBMUSER
_____ spool                            Dir  rwx------   fff---           IBMUSER
_____ utmpx                            File rw-r--r--  fff--- --s- ---- IBMUSER
F1=Help    F2=Split    F3=Exit    F4=Expand   F5=Rfind    F7=Up      F8=Down
F9=Swap    F10=Left    F11=Right  F12=Cancel
```

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z/OS UNIX Directory List Utility. . .

- Primary commands available:
  - **EDIT** — edit a file in the current directory
  - **FIND** — find a string within a filename
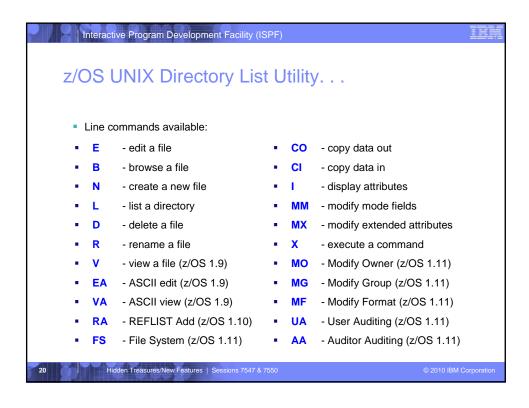 - **LEFT** — scroll the directory list columns to the left
  - **LOCATE** — locate a directory list entry based on the sort order
  - **REFRESH** — redisplay directory list with any changes that have occurred
  - **RESET** — redisplay list removing line commands and messages
  - **RIGHT** — scroll the directory list columns to the right
  - **SAVE** — write the directory list data to a data set
  - **SORT** — sort the directory list by the specified fields

z/OS UNIX Directory List Utility. . .

- Line commands available:

E — edit a file		**CO** — copy data out	
B — browse a file		**CI** — copy data in	
N — create a new file		**I** — display attributes	
L — list a directory		**MM** — modify mode fields	
D — delete a file		**MX** — modify extended attributes	
R — rename a file		**X** — execute a command	
V — view a file (z/OS 1.9)		**MO** — Modify Owner (z/OS 1.11)	
EA — ASCII edit (z/OS 1.9)		**MG** — Modify Group (z/OS 1.11)	
VA — ASCII view (z/OS 1.9)		**MF** — Modify Format (z/OS 1.11)	
RA — REFLIST Add (z/OS 1.10)		**UA** — User Auditing (z/OS 1.11)	
FS — File System (z/OS 1.11)		**AA** — Auditor Auditing (z/OS 1.11)	

z/OS UNIX Support Enhancements. . .

- **Use ISPF Edit and Browse for z/OS UNIX Files (z/OS 1.9)**
  - ► Edit/View/Browse **"Other"** Data Set Name fields support entry of z/OS UNIX pathnames
    - • z/OS UNIX Directory List displayed when pathname for directory entered in the **"Other"** Data Set Name field
  - ► z/OS UNIX pathname can be specified as an operand with the following edit primary and macro commands
    - • **COMPARE**
    - • **COPY**
    - • **CREATE**
    - • **MOVE**
    - • **REPLACE**
  - ► **BROWSE**, **EDIT**, and **VIEW** services enhanced to support processing of z/OS UNIX files
  - ► **FILEXFER** service enhanced to support the upload and download of z/OS UNIX regular files
  - ► Personal data set lists enhanced to support the saving and retrieval of z/OS UNIX pathnames

z/OS UNIX Support Enhancements. . .

- **Support for Editing ASCII Data (z/OS 1.9)**
  - ► ASCII edit automatically invoked for z/OS UNIX files tagged with CCSID 819 (US ASCII)

  - ► ASCII edit can be selected for z/OS UNIX files not tagged by either:
    - • Selecting the **Edit ASCII data** option on the Edit/View Entry panel
    - • Using the z/OS UNIX Directory List Utility (option 3.17) **EA** line command

  - ► File tagged with CCSID of 819 when saved

  - ► ASCII edit available with the EDIT and VIEW services by using the new **ASCII** keyword parameter

New UDLIST Command – z/OS 1.10

- Used to display a z/OS UNIX Directory List (option 3.17) from any command line
  Syntax: **UDLIST [*personal_list_name* | *pathname*]**
  - ► If a personal list name is provided, a directory list will be built based on the pathname entries in the list
  - ► Alternatively, the pathname for a directory can be specified
    - ► but most command lines are CAPS(ON) – cannot enter mixed-case pathnames
  - ► If no parameter is specified with the **UDLIST** command a popup displays:

```
 ISRPUDLB            Personal Data Set Lists for UDLIST         List 1 of 7
 Command ===>                                             Scroll ===> CSR

 Specify the pathname for a z/OS UNIX directory:
 Name . . .    _                                                         .

 Or select a personal data set list as a filter for UDLIST:

    Name      Description                       Created    Referenced
 .  REFLIST   Last 30 referenced data sets                 08/07/17 12:21
 .  OS2GMLIB                                    08/06/10   08/06/10 14:10
 .  UNIXWORK  UNIX work files                   07/05/11   08/02/20 13:54
 .  UNIXISPF  UNIX Development Files/DSs         07/08/22   08/02/20 13:51
 .  WRKST1                                       07/05/22   07/08/22 15:16
 .  UDLIST1                                      07/05/11   07/08/22 15:16
 .  DEMO      ISPF Demo List (SHARE)            05/08/09   07/08/22 15:16
    **End**
```

  - ► Popup allows user to:
    - ► enter a mixed-case pathname
    - ► select a personal list

Directory List Enhancements – z/OS 1.11

- z/OS UNIX commands can be entered in the command field on the z/OS UNIX Directory List panel
  - ► Requires option **"Enter z/OS UNIX commands in Command field"** to be selected on the directory list options panel
  - ► Entering a **/** (forward slash) in the command field displays a panel with a command field 255 characters in length

- Default line commands can be defined for different file types
  - ► Default line command is processed when the cursor is placed in the line command field and the ENTER key is pressed
  - ► IBM-supplied default line commands:

Directory	**L (List)**
Regular file	**B (Browse)**
Character special	**I**
FIFO	**I**
Symbolic link	**I**

  - ► User can change default line commands on the **"z/OS UNIX Directory List Default Line Commands"** panel available from the Options pull-down

Using Multiple Screens

- ISPF allows up to 32 synchronously multi-tasking screens under one ISPF session

- Create new logical screens using:
  - **SPLIT [NEW]** command
    - reposition horizontal line separating 2 screens on 3270 display
    - new logical screen created when **NEW** specified
  - **START** command
    - creates new logical screen with different "initial dialog"
    ```
    START PANEL(panel)|PGM(program)|CMD(command)
            [select_parameters]
            | ISPF_command
            | primary_option_menu_option
    ```

- Navigate screens using:
  - **SWAP [LIST | PREV | NEXT | *screen name* | n]** command
  - ISPF Task List panel (invoked using **SWAP LIST** command)

ISPF Task List - Swap List Command


```
                   ISPF Task List
                Active ISPF Logical Sessions

         .  Start a new screen
         .  Start a new application
            Application Name
         _____

            ID  Name      Panelid    Applid    Session Type
         .  1   DSLIST    ISRUDSLO   ISR       3270
         .  2   EDIT      ISREDDE2   ISR       3270
         .  3   WORK      ISRWORK    ISR       3270
         .  4-  DTEST     ISPYXD1    ISR       3270
         .  5*  SCLM      FLMDMN     ISR       3270
         .
         .
         .
```

Screen names

Panelid and Applid

"Other" screen

Current screen

SWAPBAR – z/OS 1.10

- Simplifies the task of swapping between ISPF logical screens

- Displays at the bottom of the physical screen point-and-shoot fields associated with each logical screen for the session
  - Use the point-and-shoot field to invoke the associated logical screen

    <u>Tip</u>: Customize your terminal emulator to make the action of clicking the mouse to simulate:
    1) placing the cursor
    2) Pressing the ENTER key

- Enabled using the new SWAPBAR system command

  Syntax: **SWAPBAR [ON|OFF]**

Display System and User Id – z/OS 1.7

- New ISPF command provided which allow the system name and/or user ID to be displayed on all ISPF panels

  ► **SYSNAME [ON|OFF]** - Display | Remove system name

  ► **USERID [ON|OFF]** - Display | Remove user ID

```
   Menu  RefList  RefMode  Utilities  Workstation  Help
 TSD1 VANDYKE                    Edit Entry Panel
 Command ===>  _

 ISPF Library:
    Project . . . PDFTDEV
    Group . . . . INT       . . . SVT      . . .       . . .
    Type . . . . GML
    Member . . .                (Blank or pattern for member selection list)
 Other Partitioned, Sequential or VSAM Data Set:
    Data Set Name . . .
    Volume Serial . . .         (If not cataloged)

 Workstation File:
    File Name . . . . .
                                    Options
 Initial Macro . . . .           _  Confirm Cancel/Move/Replace
 Profile Name . . . .            _  Mixed Mode
 Format Name . . . . .           _  Edit on Workstation
 Data Set Password . .           /  Preserve VB record length
```

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ISPF Client Gateway - ISPF from the Internet

- The Gateway provides an interface for client (and z/OS UNIX) applications to run TSO and ISPF commands and services

- Runs in z/OS UNIX and is invoked upon a request for a TSO or ISPF command
  - ► TSO address space established
  - ► If an ISPF command is requested
    - – ISPF data sets are allocated and an ISPF session is established

- Command requests and command output in XML format

- Gateway IVP provides a web page for entering TSO and ISPF commands
  - `–/usr/lpp/ispf/bin/ISPZIVP.html`
  - `–/usr/lpp/ispf/bin/ISPZIVP.cgi`

- Shipped with z/OS 1.10
  - ► Backfitted to z/OS 1.8 and 1.9 (APAR OA27190)

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User Command Tables

- ISPF supports up to 3 user command tables (z/OS 1.5)
  - APPLID for User command tables are defined in the ISPF configuration table
  - Searched before Site and System command tables

- Many sites now define USER as the APPLID for a User command table
  - Speak to your systems programmer if your site does not
  - Allows users to define their own ISPF commands
  - User command table saved in a personal table data set in the ISPTLIB DD concatenation

- Creating and updating user command tables
  - Option 3.9 can be used to create a user command table
    - Requires table data set allocated to the ISPTABL DD
  - Option 3.9 cannot update a user command table if it is open to your ISPF session
    - Copy table to another member; use option 3.9 to update new member; copy updated member back
    - With z/OS 1.9, use option 3.16 (ISPF Table Utility)

ISRDDN Utility

- Fullscreen display of DD allocations
- Build a member list based on a DD
- Invocation: **SELECT PGM(ISRDDN)** - DDLIST command

```
                           Current Data Set Allocations        Row 11 of 214
Command ===>                                              Scroll ===> CSR

Volume  Disposition Act DDname    Data Set Name    Actions: B E V M F C I Q
MVS8WO  SHR,KEEP    > _  ISPILIB   PDFTDEV.VANDYKE.GIF
MVS8WL  SHR,KEEP    > _            PDFTDEV.STG.GIF
MVS8WI  SHR,KEEP    > _            PDFTDEV.INT.GIF
MVS8WK  SHR,KEEP    > _            PDFTDEV.SVT.GIF
DMTCAT  SHR,KEEP    > _  ISPLLIB   VANDYKE.LOADLIB
MVS4W3  SHR,KEEP    > _            WDBDEV.LOAD
MVS8WK  SHR,KEEP    > _            PDFTDEV.VANDYKE.LOAD
MVS8WF  SHR,KEEP    > _            PDFTOOL.COMMON.LOAD
MVS8WF  SHR,KEEP    > _            PDFTDEV.STG.LOAD
MVS8WM  SHR,KEEP    > _            PDFTDEV.INT.LOAD
MVS8WD  SHR,KEEP    > _            PDFTDEV.SVT.LOAD
MVS8WL  SHR,KEEP    > _            PDFTOOL.FLM@SCAN.LOAD
S13L8R  SHR,KEEP    > _            SYS1.DFQLLIB
S13L8R  SHR,KEEP    > _            SYS1.DGTLLIB
MVS8WO  SHR,KEEP    > _  ISPMLIB   PDFTDEV.VANDYKE.MSGGEN
MVS8WD  SHR,KEEP    > _            PDFTOOL.COMMON.MSGS
MVS8WO  SHR,KEEP    > _            PDFTDEV.STG.MSGGEN
MVS8WJ  SHR,KEEP    > _            PDFTDEV.INT.MSGGEN
```

- Browse (B), Edit (E), View (V), Free the entire DD (F), Compress a PDS (C), Provide additional data set information (I), Display list of users of jobs using a data set (Q)

ISRDDN - Primary Commands

- **MEMBER name [string]**
  - scans allocations for a particular member
  - **string** restricts the search to DDs with **string** in their name.
  - Uses CSVQUERY to locate load modules

```
                           Current Data Set Allocation         Member was found
Command ===>                                              Scroll ===> CSR

Message               Act DDname    Data Set Name    Actions: B E V M F C I Q
                      > _  ISPILIB   PDFTDEV.VANDYKE.GIF
                      > _            PDFTDEV.STG.GIF
                      > _            PDFTDEV.INT.GIF
                      > _            PDFTDEV.SVT.GIF
                      > _  ISPLLIB   VANDYKE.LOADLIB
                      > _            WDBDEV.LOAD
                      > _            PDFTDEV.VANDYKE.LOAD
                      > _            PDFTOOL.COMMON.LOAD
Member: ISPSUBS       > _            PDFTDEV.STG.LOAD
                      > _            PDFTDEV.INT.LOAD
Member: ISPSUBS       > _            PDFTDEV.SVT.LOAD
                      > _            PDFTOOL.FLM@SCAN.LOAD
                      > _            SYS1.DFQLLIB
                      > _            SYS1.DGTLLIB
                      > _  ISPMLIB   PDFTDEV.VANDYKE.MSGGEN
                      > _            PDFTOOL.COMMON.MSGS
                      > _            PDFTDEV.STG.MSGGEN
                      > _            PDFTDEV.INT.MSGGEN
```

- **ONLY string | EXCLUDE string**
  - to show or exclude DDs with **string** in their name

ISRDDN - Primary Commands...

- **SEARCH** *name*
  - ► Same as **MEMBER** but does not search   DD's

- **LOAD** *name*
  - ► Explicitly loads a module
  - ► Uses ISPLLIB if available
  - ► Browses result

- **APF, LINKLIST (LI), PARMLIB, LPA (LP)**
  - ► toggle commands to add/remove pseudo-DD names
  - ► show the defined -
    - –APF data sets
    - –link-list data sets
    - –PARMLIB data sets
    - –LPA data sets

ISRDDN - Primary Commands...

- **CLIST**
  - ► creates a allocation CLIST in **'prefix.ISRDDN.CLIST'**

- **COUNT [string]**
  - ► counts the number of members in PDSs

- **DUP**
  - ► searches all the PDSs in the displayed list and LPA
  - ► displays list of duplicate names

- **ENQ**
  - ► Enqueues on system

- **CON**
  - ► Enqueue contention

ISRDDN - Browse of Control Blocks

- BROWSE STORAGE
  - ► SEQUENTIAL FILE
    - – Allocated to DDNAME ISRDDN
    - – Fixed or VB
    - – Max length of 230
      - ◆ First string on line is control block name
    - – Second string is locator string
    - – Everything else ignored

```
ASCB    CVT?+C?    Addr space control blk
CVT     10.?       Comm Vector Table
TCB     CVT??      Task Control Block
```

- Disassembly support available with z/OS 1.9

NOTE: ISRDDN is now documented in the ISPF User's Guide Volume I

AUTOTYPE Function - z/OS 1.2

- AUTOTYPE function resolves a partial name in a panel **Library** or **Other Data Set Name** field
  - ► searches catalog or PDS directory to find names that match

- Most effective when assigned to a PF key

- Retrieves a maximum of 100 data set names and 700 member names

- Only available on panels enabled for AUTOTYPE
  - ► applications can use AUTOTYPE by making minor panel changes
  - ► DTL provides AUTOTYPE support

ISRDTLCV Macro

- Shipped in SISPEXEC library

- Converts the non-displayable characters in panel output from the DTL Conversion Utility (ISPDTLC) to editable characters

- Issue **ISRDTLCV** on edit command line of generated panel

Calendar Notebook

- **&ZKIT = LO**
  - ► Set in Primary Menu

  - ► Allows TBDISPL dialog for Calendar view
    - – Keeps 15 lines of data for day selected
    - – Day is hilighted to indicate note

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ISPF Productivity Tool (IPT)

- **Extends the productivity of ISPF**
  - ► Seamless integration with ISPF
    - • Enhanced functionality integrated into the standard ISPF member and data set list functions
  - ► Create and use Object Lists which can contain items such as
    - • Data sets (PDS, sequential, VSAM, tape, migrated)
    - • z/OS UNIX files
    - • DB2 tables
    - • APF, LPA, and linklist libraries
  - ► Minimize panel navigation and improve productivity
    - • Shortcuts
    - • IPT Commands
    - • Extensive "Find" capabilities across multiple files
      - ✓ DBCS and Hexadecimal searches
      - ✓ Case sensitive searches
      - ✓ Limited to specific columns
    - • Global "change" function across multiple members
  - ► Reduce keystrokes

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