



IBM Software Group

# Are your ISPF users faster than a 5<sup>th</sup> Grader?

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## Are your ISPF Users faster than a 5<sup>th</sup> grader?

- ▶ 5<sup>th</sup> Graders working on their electronic gadgets have....
  - Point and click tools
  - Intuitive interfaces
  - Keyboard shortcuts

***Don't you wish your ISPF users had the same thing?  
They can, with ISPF Productivity Tool!***



## What is ISPF Productivity Tool?

- ▶ A tool which...
  - Installs and runs seamlessly on ISPF
  - Offers ways to organize and find your information intuitively, even if you don't know exactly what you're looking for
  - Supports point and click interfaces
  - Offers intuitive short cuts for tasks done every day
  - Reduces mistakes by automating many tasks
  - Offers functions not available in ISPF alone



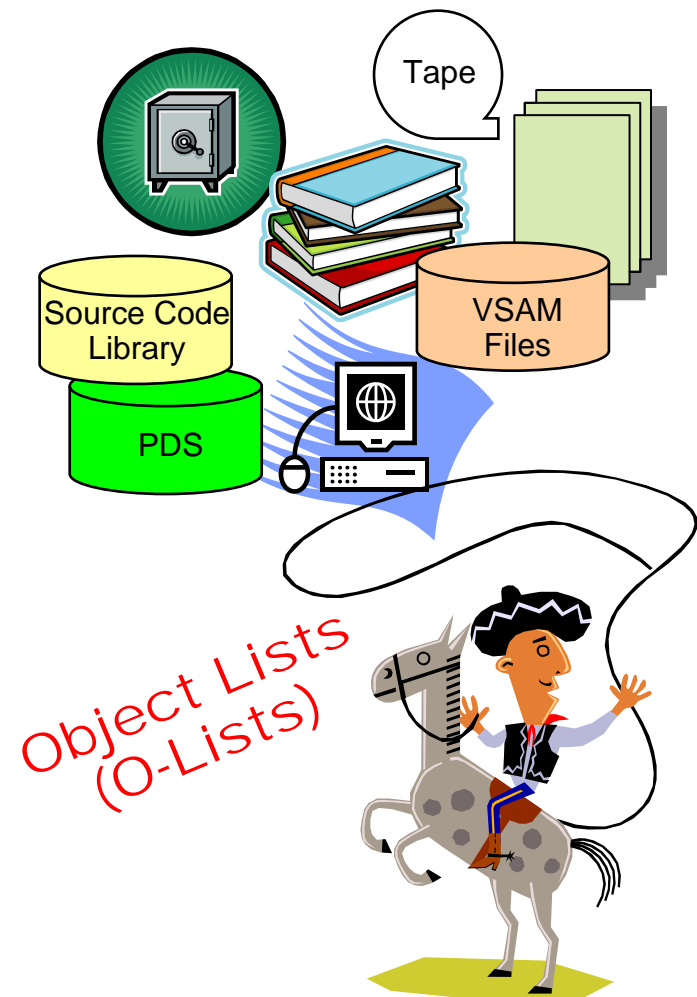
## Think about...

- How would you like your new ISPF users to embrace ISPF rather than run from it?
- What would your users think if they improved their ISPF productivity by as much as 10 fold?
- How much more can you get done, if you were more effective in what time you have?
- How often has a seemingly innocent (but mis-typed) ISPF or TSO command come back to haunt you?



## Organize your project files in a single list...

- You have PDS files with JCL, CLISTs, executable programs, DB2 databases, BookManager books, archived files, text documents on your PC - all related to the same project.
- You currently use different environments and tools to access these files.
- You want to manage them all together, in one place.
- *No Problem!*



## Build Object Lists (OLists) on the fly...

Use IPT Data Set List Utility to create an Object List of files matching your criteria.

```

Menu  Reflist  Refmode  Special-lists  Utilities  Settings  Test  Help  Exit
-IPT- ----- Data Set List Utility -----
Command ==> _____
DS - Display dataset list          P - Print data set list
blank - Temporary Object List      PV - Print VTOC information
PL - Permanent Object List         V - Display VTOC information
GDG - Display Generation Datasets  XV - Extended VTOC & space summary

Enter an option or select it by placing cursor on the option code
Specify parameters below:
Object List ==> _____ (* for selection list, = for LAB)
Dsname Level ==> FILEMGR.V8R1 More? ==> N
Volume Serial ==> _____ (Leave BLANK for catalog scan,
                               volser or pattern for VTOC scan)

Data set list options:
Initial View ==> 1 : 1. Volume 2. Space 3. Attrib 4. Total
Enter "/" to select option:
 / Confirm Data Set Delete          / Additional Dataset Qualifiers
 / Display Catalog Name             / Display Total Tracks

When the data set list is displayed, enter the "/" line command for a list of
the available line commands. TSO commands, CLISTS, or REXX execs are supported.

F1=Help    F2=Split    F3=Exit    F7=Backward  F8=Forward  F9=Swap
F10=Actions F12=Cancel

```



# Issue commands from your Olists

```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (E) ----- LEVEL FILEMGR.V8R1 ----- "A" will display assist
Command   ==>          SCROLL ==> CSR
Hotbar: OPRINT  REFRESH CLRVOL  FILLVOL  UPDATE  CUT      FLIP  VALIDATE
                                         *TEMPORARY LIST*

Command  Member  Numbr Data Set Names / Objects          Class
-----
          1 'FILEMGR.V8R1.INSTALL'
          2 'FILEMGR.V8R1.SFMNDBRM'
          3 'FILEMGR.V8R1.SFMNEXEC'
          4 'FILEMGR.V8R1.SFMNMAC1'
          5 'FILEMGR.V8R1.SFMNMENU'
          6 'FILEMGR.V8R1.SFMNMODA'
          7 'FILEMGR.V8R1.SFMNMOD2'
          8 'FILEMGR.V8R1.SFMNPENU'
          9 'FILEMGR.V8R1.SFMNSAM1'
         10 'FILEMGR.V8R1.SFMNSLIB'
         11 'FILEMGR.V8R1.SFMNTENU'
         12 'FILEMGR.V8R1.SIPVMENU'
         13 'FILEMGR.V8R1.SIPVMOD1'

F1=HELP    F2=SPLIT    F3=END      F4=IPT View  F5=
F7=UP      F8=DOWN     F9=SWAP     F10=LEFT    F11=
    
```

No matter how you got it – or what it contains....

...from any Object List, you can use line commands to act on a file - directly form the list.

Save keystrokes - No need to navigate to other ISPF panels to take action once you find it!

The appropriate file handler is invoked from the olist automatically!

```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (B) ----- Lab files for IPT redbook "A" will display assist
Command   ==>          SCROLL ==> CSR
Hotbar: OPRINT  REFRESH CLRVOL  FILLVOL  UPDATE  CUT      FLIP  VALIDATE
Open list ==> LAB      (or BLANK for reference list)

Command  Member  Numbr Data Set Names / Objects          Class
-----
          1 !----- LAB FILES -----
          2 :LISTS                                OLIST
          3 :LISTA SYSEXEC                      OLIST
          4 'DNET424.ACCOUNT.FILE'              VSAM
          5 /u/dnet424/testfile                 ZUNIX
          6 ADLAB.JCL                           PDSE
          7 :LISTS APFLIB                        OLIST
          8 'FILEMGR.V87R1.**'                   LIST
          9 :LISTV DMPU2* DNET424.**            OLIST
         10 -DSNC_DSN8810.EMP                    DB2
         11 =DNET424 ADWORK ADLAB SOURCE        ISPF
         12 =DNET424 DEV1 DEV2 TEST RELEASE SOURCE ISPF
         13 'DNET424.ADLAB.LOAD'                PDSE

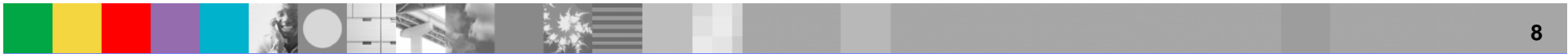
F1=HELP    F2=SPLIT    F3=END      F4=IPT View  F5=RFIND    F6=RCHANGE
F7=UP      F8=DOWN     F9=SWAP     F10=LEFT    F11=RIGHT   F12=RETRIEVE
    
```

## Object Lists can contain varied files

### Object List may contain:

- ▶ z/OS Files
  - Unix System Services Files
  - Native UNIX" support - z/OS v1.9.
  - VSAM files
  - Sequential
  - Tape
  - Migrated
  - PC files
  - Panvalet or Librarian
  - SCLM Hierarchy
  - Files on specific volumes
  - Files referenced by DD name
- ▶ Dynamic list of APF libraries
- ▶ Linklist libraries
- ▶ LPA libraries
- ▶ DB2 tables

An object list may include any of the items shown!





# Assist command Display Olist Commands

IPT Adds Additional Functions to ISPF  
  
 Perform all commands from Olist Panel

-IPT-  
Cmd ====>

## OLIST Command Assistance

For more details, point cursor at selected command and press **ENTER**

Enter **END** or **CANCEL** to exit

While reviewing an ASSIST example you may enter an OLIST command, press **ENTER**, and be prompted with command over the OLIST display.

----- MAIN Commands -----

ASSIST	#f-#l	CANCEL	CLEARVOL	CMDPARMS	CUT	DEFAULT	END
EXCLUDE	EXPORT	FILLVOL	FILTER	FIND	FINDTEXT	FLIP	LEVEL
LISTALOC	LISTBASE	LISTCAT	LISTGDG	LISTHIST	LISTMIGR	LISTMULT	LISTPAGE
LISTPDSE	LISTSYS	LISTTAPE	LISTVSAM	LISTVTOC	LOCATE	MEMFIND	OPEN
OPRINT	PASTE	POPULATE	QUIT	REFRESH	RELEASE	RESET	RFIND
SAVE	SET	SHOWCMD	SHOWTYPE	SHOWVOL	SORT	TITLE	UPDATE
UTIL	VALIDATE						

----- LINE Commands -----

/	/D	/DD	/I	/R	/X	/XX	=	?<Cmd>	%<Exec>
ALLOCATE	BF		BROWSE	CATALOG	COMPRESS	COPY		DELETE	DSLIST
EDIT	EF		EXPDIR	FREE	HDELETE	HLIST		INFO	LISTBASE
LISTCAT	LISTGDG		LISTMIGR	LISTTAPE	LISTVTOC	MOVE		OLIST	PRINT
RENAME	SELECT		SUBMIT	UNCATALO	VF	VIEW		XFER	<other>

## Find a PDS member



- You need to look for the PDS member BJIM, but can't remember which PDS has this member.
- *No Problem!*



## Example 2: Find a PDS member

85 datasets found

```

Menu  Options  View  Utilities  Compile
-----
DSLIST - Data Sets Matching DNET*.ADLAB*.JCL          Row 1 of 85
Command ==> _____ Scroll ==> CSR

Command - Enter "/" to select action                Message                Volume
-----
b  DNET007.ADLAB.JCL                                DMPU25
   DNET032.ADLAB.JCL                                DMPU28
   DNET032.ADLAB.JCL                                DMPU18
   DNET032.ADLAB.JCL                                DMPU18
   DNET032.ADLAB.JCL                                DMPU01
   DNET039.ADLAB.JCL                                DMPU30
   DNET047.ADLAB.JCL                                DMPU19
   DNET049.ADLAB.JCL                                DMPU27
   DNET070.ADLAB.JCL                                DMPU07
   DNET074.ADLAB.JCL                                DMPU27
   DNET074.ADLAB.JCL.OLD2                            DMPU19
   DNET074.ADLAB.JCL.TEST                            DMPU34
   DNET100.ADLAB.JCL                                 DMPU30
   DNET100.ADLABOLD.JCL                              DMPU25
   DNET110.ADLAB.JCL                                 DMPU21

F1=Help      F2=Split    F3=Exit     F4=IPT View  F5=Rfind    F7=Up
F8=Down      F9=Swap     F10=Left    F11=Right   F12=retrieve
  
```

Select the PDS file and press Enter key.

Use 3.4 to view a list of PDS files...

Browse the first of the 85 PDS files in the resulting list.

## Example 2: Find a PDS member

```

Menu Options View Utilities Compilers Help
-----
DSLIS - Data Sets Matching DNET*.ADLAB*.JCL          Row 1 of 85
Command ==>> _____ Scroll ==>> CSR

Command - Enter "/" to select action                Message          Volume
-----
b          DNET007.ADLAB.JCL                          DMPU25
          DNET032.ADLAB.JCL                          DMPU28
          DNET032.ADLAB.JCL.OLD                       DMPU18
          DNET032.ADLAB.JCL.OLD1                     DMPU18
          DNET034.ADLAB.JCL                          DMPU01
          DNET039.ADLAB.JCL                          DMPU30
    
```

Next:

Search this PDS for the member BJIM.

If not found, press F3 to exit.

```

Menu Functions Confirm Utilities Help
-----
BROWSE          DNET007.ADLAB.JCL          Member not found
Command ==>> S BJIM          Scroll ==>> CSR

Name      Prompt      Size      Created      Changed      ID
-----
BADSTAT
BASAM1
BASAM1DR
BATCDEMO
BCCCAENT      02/26 21:11:55  DNET007
BCCCAOSV      02/26 21:11:55  DNET007
BCCCAX        02/26 21:11:55  DNET007
BCOBTIMS
BDTDEMO
BLABONE
BLABTWO
BPSAM1        82  2007/05/01  2008/02/26 21:11:55  DNET007
BSAM1
BSAM2
CCCACVMN      518 2007/12/27  2008/02/26 21:11:55  DNET007
CCCACVS1      518 2007/12/27  2008/02/26 21:11:55  DNET007
CCCACVS2      518 2007/12/27  2008/02/26 21:11:55  DNET007

F1=Help      F2=Split      F3=Exit      F4=IPT View  F5=Rfind      F7=Up
F8=Down      F9=Swap       F10=Left     F11=Right    F12=retrieve
    
```

Try selecting the member.

## Example 2: Find a PDS member

Next:

Repeat these steps for **each** of the 85 PDS files in the list.

```

Menu Options View Utilities Compilers Help
-----
DSLIST - Data Sets Matching DNET*.ADLAB*.JCL          Row 1 of 85
Command ==> _____ Scroll ==> CSR

Command - Enter "/" to select action                Message          Volume
-----
b          DNET007.ADLAB.JCL                             DMPU25
          DNET032.ADLAB.JCL                             DMPU28
          DNET032.ADLAB.JCL.OLD                          DMPU18
          DNET032.ADLAB.JCL.OLD1                         DMPU18
          DNET034.ADLAB.JCL                             DMPU01
          DNET039.ADLAB.JCL                             DMPU30
    
```

```

Menu Functions Confirm Utilities Help
-----
BROWSE          DNET007.ADLAB.JCL          Member not found
Command ==> S BJIM

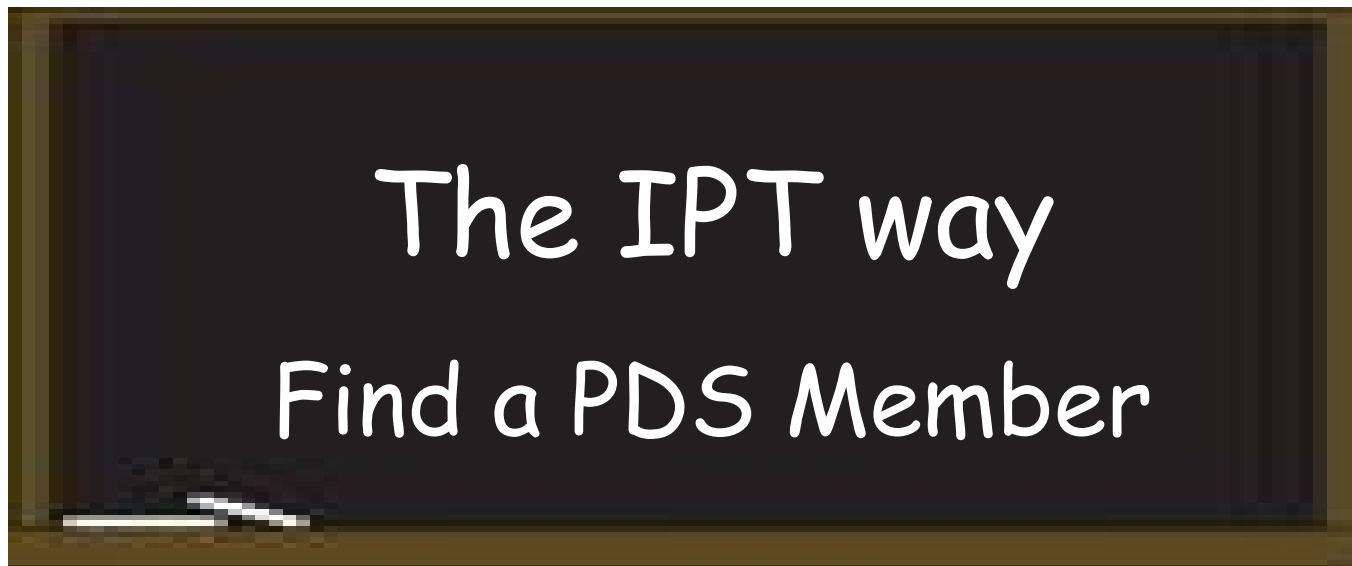
Name           Prompt           Size           Cre
-----
BADSTAT
BASAM1
BASAM1DR
BATCDEMO
BCCCAENT       76           2007
BCCCAOSV      102           2007
BCCCAOX       21           2005
BCOBTIMS
BDTDEMO
BLABONE
BLABTWO
BPSAM1        82           2007
BSAM1
BSAM2
CCCACVMN      518           2007
CCCACVS1     518           2007
CCCACVS2     518           2007
F1=Help      F2=Split      F3=Exit      F4=
F8=Down      F9=Swap       F10=Left     F11=
    
```

```

Menu Options View Utilities Compilers Help
-----
DSLIST - Data Sets Matching DNET*.ADLAB*.JCL          0 Members processed
Command ==> _____ Scroll ==> CSR

Command - Enter "/" to select action                Message          Volume
-----
          DNET007.ADLAB.JCL                             Browsed          DMPU25
          DNET032.ADLAB.JCL                             DMPU28
          DNET032.ADLAB.JCL.OLD                          DMPU18
          DNET032.ADLAB.JCL.OLD1                         DMPU18
          DNET034.ADLAB.JCL                             DMPU01
          DNET039.ADLAB.JCL                             DMPU30
          DNET047.ADLAB.JCL                             DMPU19
          DNET049.ADLAB.JCL                             DMPU27
          DNET070.ADLAB.JCL                             DMPU07
          DNET074.ADLAB.JCL                             DMPU27
          DNET074.ADLAB.JCL.OLD2                          DMPU19
          DNET074.ADLAB.JCL.TEST                          DMPU34
          DNET100.ADLAB.JCL                              DMPU30
          DNET100.ADLABOLD.JCL                           DMPU25
          DNET110.ADLAB.JCL                              DMPU21
F1=Help      F2=Split      F3=Exit      F4=IPT View  F5=Rfind     F7=Up
F8=Down      F9=Swap       F10=Left     F11=Right    F12=retrieve
    
```

Browse the next file in the list.



## Example 2: Find a PDS member

```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (P)          LEVEL DNET*.ADLAB*.JCL --- "A" will display assist
Command  ==> MF BJIM          SCROLL ==> CSR
Hotbar: OPRIN  REFRESH  SERVOL  FILLVOL  UPDATE  CUT  FLIP  VALIDATE
*TEMPORARY LIST*

Command  Member  Numbr  Data Set Names  Class
-----
1  'DNET007.ADLAB.JCL'
2  'DNET032.ADLAB.JCL'
3  'DNET032.ADLAB.JCL'
4  'DNET032.ADLAB.JCL.OLD'
5  'DNET034.ADLAB.JCL'
6  'DNET039.ADLAB.JCL'
7  'DNET047.ADLAB.JCL'
8  'DNET049.ADLAB.JCL'
9  'DNET070.ADLAB.JCL'
10 'DNET074.ADLAB.JCL'
11 'DNET074.ADLAB.JCL.OLD2'
12 'DNET074.ADLAB.JCL.TEST'
13 'DNET100.ADLAB.JCL'

F1=HELP  F2=SPLIT  F3=END  F4=IPT View  F5=RFIND  F6=RCHANGE
F7=UP  F8=DOWN  F9=SWAP  F10=LEFT  F11=RIGHT  F12=RETRIEVE

```

Use the IPT  
Member Find  
(MF) command.

From an olist of PDS files:

Issue a Member Find (MF)  
command to search all of the 85  
PDS files in the list.



## Example 2: Find a PDS member



```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (B) ----- LEVEL DNET*.ADLAB*.JCL --- "A" will display assist
Command   ==> MF BJIM                               SCROLL ==> CSR
Hotbar: OPRINT  REFRESH CLRVOL  FILLVOL  UPDATE  CUT      FLIP  VALIDATE
                                           *TEMPORARY LIST*

Command  Member  Numbr Data Set Names / Objects          Class
-----
1 'DNET007.ADLAB.JCL'

F1=HELP  F2=SP
F7=UP    F8=DO
    
```

```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (B) ----- LEVEL DNET*.ADLAB*.JCL ----- Row 52 to 64 of 85
Command   ==> _                                     SCROLL ==> CSR
Hotbar: OPRINT  REFRESH CLRVOL  FILLVOL  UPDATE  CUT      FLIP  VALIDATE
                                           *TEMPORARY LIST*

Command  Member  Numbr Data Set Names / Objects          Class
-----
--FOUND-- BJIM          52 'DNET424.ADLAB.JCL'          PDSE
                    53 'DNET424.ADLAB.JCL.OUT'      PDSE
                    54 'DNET424.ADLAB.JCL'          PDSE
                    55 'DNET424.ADLAB.JCL'          PDSE
                    56 'DNET424.ADLAB.JCL'          PDSE
                    57 'DNET424.ADLAB.JCL'          PDSE
                    58 'DNET424.ADLAB.JCL'          PDSE
                    59 'DNET481.ADLAB.JCL'          PDSE
                    60 'DNET500.ADLAB.JCL'          PDSE
                    61 'DNET504.ADLAB.JCL'          PDSE
                    62 'DNET514.ADLAB.JCL'          PDSE

IQIP958 Member BJIM found in 'DNET424.ADLAB.JCL'

F1=HELP  F2=SP      F6=RCHANGE
F7=UP    F8=DOWN   F9=SWAP    F10=LEFT  F11=RIGHT  F12=RETRIEVE
    
```

Member BJIM found.

# Find Text within a list of files

1. Search for PSTCUST in all files listed using an Olist

```
-IPT- OLIST (B) ----- LEVEL OPTIM -----
Command  ==> ft pstcust
Hotbar: OPRINT  REFRESH  CLRVOL  FILLVOL  UPDATE  CUT

Command  Member  Numbr Data Set Names / Objects
-----
          1 'OPTIM'
          2 'OPTIM.SWGRPBR.INSTALL'
          3 'OPTIM.SWGRPBR.INSTALL.PSTDEPDB'
          4 'OPTIM.SWGRPBR.INSTALL.PSTDEPIX'
          5 'OPTIM.SWGRPBR.INSTALL.PSTJOBDB'
```

2. First occurrence found. PF5 continues search.

```
File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
-IPT- OLIST (B) ----- LEVEL OPTIM ----- Row 2 to 16 of 94
Command  ==>
Hotbar: OPRINT  REFRESH  CLRVOL  FILLVOL  UPDATE  CUT  FLIP  VALIDATE
                                         *TEMPORARY LIST*

Command  Member  Numbr Data Set Names / Objects  Volume
-----
-TXT FND- ADB2BMC  2 'OPTIM.SWGRPBR.INSTALL'  DMPU20
          3 'OPTIM.SWGRPBR.INSTALL.PSTDEPDB'  DMPU30
          4 'OPTIM.SWGRPBR.INSTALL.PSTDEPIX'  DMPU24
          5 'OPTIM.SWGRPBR.INSTALL.PSTJOBDB'  DMPU27
          6 'OPTIM.SWGRPBR.INSTALL.PSTJOBIX'  DMPU22
          7 'OPTIM.SWGRPBR.INSTALL.VENDITEM'  DMPU29
          8 'OPTIM.SWGRPBR.INSTALL.VENDOR'  DMPU22
          9 'OPTIM.SWGRPBR.ISPLLIB'  DMPU16
         10 'OPTIM.SWGRPBR.ISPMLIB'  DMPU23
         11 'OPTIM.SWGRPBR.ISPLIB'  DMPU25
         12 'OPTIM.SWGRPBR.ISPSLIB'  DMPU22
                                         9
Found in ADB2BMC -->/* CLIST, PSTCUST, SET THE USER KEYWORD TO THE DE 0
                                         6
         16 'OPTIM.SWGRPBR.PSTDemo.EXTRACT'  DMPU45
```

## Automating common tasks



- Oops! While updating a PDS, you get a message that the directory is full.
- You need to expand the PDS Directory to make space for more members.
- *No Problem!*



The ISPF way  
Expand a PDS Directory

# Expand a PDS Directory

1. Copy in-flight work (PDS member) to another dataset

```
File Edit Edit No space in directory
EDIT      DNET424.ADLAB.CNTL (CTL03) - 01.00
Command ==> create adlab.cntl.save(ctl03)
***** ***** Top of
c99999      01 CUST-REC.
000002      05 CUSTOMER-KEY.
000003      10 CUST-ID
000004      05 NAME
```

3. Specify Directory Blocks

```
Management class . . . USRMGMT
Storage class . . . USBASE
Volume serial . . . DMPU20
Device type . . .
Data class . . .
Space units . . . CYLINDER

Average record unit
Primary quantity . . 3
Secondary quantity . . 1
Directory blocks . . 6
Record format . . . FB
Record length . . . 80
```

2. Allocate new PDS with more Directory Blocks

```
Specified data set DNET424.ADLAB.CNTL.SAVE
does not exist.
If you wish to allocate this data set, select
below.

Allocation Options:
2 1. Allocate using the attributes of:
    DNET424.ADLAB.CNTL
    2. Specify allocation attributes
```

4. Navigate to Copy panel

```
EDIT      DNET424.ADLAB.CNTL (CNTL03) - 01.00
Command ==> can;=3.3
***** ***** Top of Data
000001      01 CUST-REC.
000002      05 CUSTOMER-KEY.
000003      10 CUST-ID
000004      05 NAME PIC
000005      05 ACCT-BALANCE PIC
```

# Expand a PDS Directory

## 5. Enter Source Copy Data Set

```
Option ==> C
C Copy data set or member(s)      CP
M Move data set or member(s)     MP

Specify "From" Data Set below, then press E

From ISPF Library:
Project . . . DNET424      (--- Options
Group . . . ADLAB
Type . . . CNTL
Member . . . *          (Blank or
```

## 6. Enter Target Copy Data Set

```
Specify "To" Data Set Below

To ISPF Library:          Options:
Project . . DNET424      Enter "/"
Group . . . ADLAB        / Repla
Type . . . CNTL          _ Proce

To Other Partitioned or Sequential Data Set:
Name . . . . . adlab.cntl.save
Volume Serial . . . . . (If not cat
```

## 7. Rename Data Sets

```
Menu Options View Utilities Compilers Help
-----
DSLIST - Data Sets Matching DNET424.ADLAB.CNTL*
Command ==> _____

Command - Enter "/" to select action
-----
r DNET424.ADLAB.CNTL
r DNET424.ADLAB.CNTL.SAVE
***** End of Data Set List
```

## 8. Rename Old Data Set

```
Other Partitioned or Sequential Data Set:
Name . . . . . 'DNET424.ADLAB.CNTL.old'
```

## 9. Rename New Data Set

```
Other Partitioned or Sequential Data Set:
Name . . . . . 'DNET424.ADLAB.CNTL'
```





The IPT way  
Expand a PDS Directory

## Expand a PDS Directory

```

-IPT- EDIT DNET424.ADLAB.CNTL(CNTLO3) - 01.00
Command ==> save
***** ***** Top of Data *****
000001      01 CUST-REC.
000002      05 CUSTOMER-KEY.
000003      PIC X(5).
000004      C X(17).
000005      S9(7)V99 COMP-3.
000006      PIC S9(4) COMP.
000007      05 ADDR      PIC X(20).
000008      05 CITY      PIC X(14).
000009      05 STATE     PIC X(02).
    
```

PDS Directory is full.  
Do you want to expand it?

Yes     No

- System presents a message that the PDS Directory is full. Do you want to expand it?
- You click "yes"

Steps required: 1





## You want to change the author of the COBOL programs from 'Doug Stout' to 'Jim Rice'.



- You want to change all names of the programs from Doug Stout to Jim Rice.
- Most of the PDS members need to be updated.
- *No Problem!*



# Change all members of a PDS

1. Use ISPF 3.14 to search for literal 'Doug Stout' in a PDS

```

Command ==>
Search String . 'DOUG STOUT'

ISPF Library:
Project . . . . DNET424
Group . . . . ADLAB
Type . . . . SOURCE
Member . . . . (Blank or pattern
                  "*" for all memb

Other Partitioned, Sequential or VSAM Data Set:
Data Set Name . MASTER.ADLAB.SOURCE(*)
Volume Serial . . . . (If not cataloged)

Listing Data Set . . . SRCHFOR.LIST
    
```

2. List of 27 members with 'Doug Stout'

```

VIEW          DNET424.SRCHFOR.LIST
Command ==>
***** ***** Top of D
000001 1 ISRSUPC - MVS/PDF FILE/LINE/
000002 LINE-# SOURCE SECTION
000003
000004
000005 ASAM1 -----
000006
000007 5 * AUTHOR: DOUG STOUT
000008
000009 ASAM2 -----
000010
000011 5 * AUTHOR: DOUG STOUT
    
```

3. Select each of the 27 members

```

EDIT          DNET424.MASTER.ADLAB.SOURCE
Command ==> s ASAM1

Name          Prompt          Size    Created
. @FILECHK    15      2003/06/04
. @SYSINFO
. @VSAMDEF    21      2004/07/02
. ADA01      334     2008/06/28
. ADA02      147     2008/06/28
. ADA03      123     2008/06/28
    
```

4. Change literal 'Doug Stout' to 'Jim Rice'

```

EDIT          DNET424.MASTER.ADLAB.SOURCE(ASAM1)
Command ==> c 'Doug Stout' 'Jim Rice';end
***** ***** Top of D
000001 ASAM1  AMODE 31
000002 ASAM1  CSECT
000003          USING ASAM1,R15
000004 * *****
000005 * SAMPLE PROGRAM ASAM1
000006 * AUTHOR: DOUG STOUT
000007 *          IBM CORPORATION
    
```

Repeat steps three and four 26 times.



The IPT way  
Global change to a PDS

## Change all members of a PDS

1. From an MSL, issue Global Change command

```
-IPT--EDIT L1----- DNET424.MASTER.ADLAB.SOURCE -----
COMMAND ==> global change 'Doug Stout' 'Jim Rice'
HOTBAR: DOWN  UP      GLOBAL  INFO    COMPRESS EX
                                                ON

  NAME  RENAME  LIB VV.MM  CREATED   CHANGED
@FILECHK      1 01.00 03/06/04 03/06/04 18:24
@SYSINFO      1
@VSAMDEF      1 01.11 04/07/02 04/07/03 00:03
ADA01        1 01.11 08/06/28 08/07/22 23:36
```



2. The 27 modified members are displayed

```
-IPT--EDIT L1----- DNET424.MASTER.ADLAB.SOURCE -----
COMMAND ==>
HOTBAR: DOWN  UP      GLOBAL  INFO    COMPRESS EX
          *EXCLUDE*  54 HIDDEN  81 PROCESSED  ON

  NAME  RENAME  LIB VV.MM  CREATED   CHANGED
ASAM1  -G:OK   1 01.29 08/07/10 08/07/28 12:24
ASAM2  -G:OK   1 01.03 08/07/10 08/07/28 12:24
CDAT1  -G:OK   1 01.20 04/10/15 08/07/28 12:24
CDAT2  -G:OK   1 01.05 04/06/19 08/07/28 12:24
COBISTUB -G:OK  1 01.06 05/11/04 08/07/28 12:24
PADSTAT -G:OK  1 01.01 07/07/02 08/07/28 12:24
```

Your job produced unexpected results.



- We suspect the DD name `CUSTFILE` refers to a file which is empty, or contains invalid data.
- Let's edit the file.
- *No Problem!*



## Edit a file located in SDSF

### 1 ► Copy the file name

```

SDSF OUTPUT DISPLAY DNET4244 JOB18600  DSID      3 LINE 37      COLUMNS 12- 91
COMMAND INPUT ==>                               SCROLL ==> CSR
//CUSTFILE DD DSN=&SYSUID..ADLAB.FILES(CUST2FA),DISP=SHR
IEFC653I SUBSTITUTION JCL - DSN=DNET424.ADLAB.FILES(CUST2FA),DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*

```

### 2. Split Screen

```

Edit Entry Panel
Command ==> _____
ISPF Library:
Project . . . . CNET424
Group . . . . ADLAB . . . . _____
Type . . . . CNTL
Member . . . . _____ (Blank or pattern for
Other Partitioned, Sequential or VSAM Data Set, or z/
Name . . . . _____
Volume Serial _____ (If not cataloged)

```

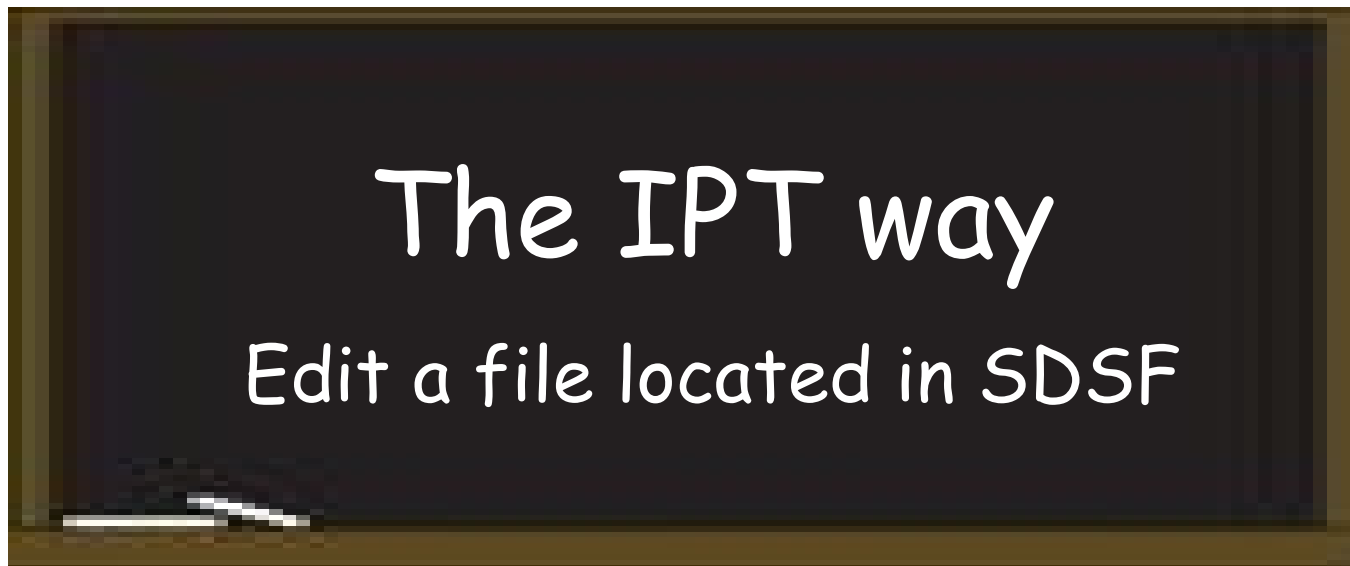
### 3, 4) Add quotes, paste file name, press Enter

```

Edit Entry Panel
Command ==> _____
ISPF Library:
Project . . . . CNET424
Group . . . . ADLAB . . . . _____
Type . . . . CNTL
Member . . . . _____ (Blank or patte
Other Partitioned, Sequential or VSAM Data Set,
Name . . . . 'DNET424.ADLAB.FILES(CUST2FA)'

```





## Edit a file located in SDSF

1. Type Edit, place cursor under the file name

```

Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY DNET4244 JOB18600 DSID      3 LINE  CHARS 'FILES' FOUND
COMMAND INPUT ==> edit                               SCROLL ==> CSR
  6 //CUSTFILE DD DSN=&SYSUID..ADLAB.FILES(CUST2FA),DISP=SHR
    IEFC653I SUBSTITUTION JCL - DSN=DNET4244.ADLAB.FILES(CUST2FA),DISP=SHR
  7 //SYSPRINT DD SYSOUT=*
  8 //SYSOUT   DD SYSOUT=*
  9 //CUSTRPT  DD SYSOUT=*
 10 //CUSTOUT  DD SYSOUT=*
 11 //TRANFILE DD *
    /*  ABEND   <== WILL CAUSE DIV
    /*
    /*
    /******
    /*  SAMPLE FILES AND PARAMETERS FOR DEBUG TOOL AND FAULT ANALYZER:
    /******
    /*
    /*  SAMPLE EXEC PARMS TO START DEBUG TOOL:
    /*  -----
    /*  YOU CAN START DEBUG TOOL BY ADDING A TEST PARM.  EXAMPLES:
    /*      CONNECT TO A VTAM TERMINAL IN BATCH:
    /*          PARM='/TEST(,,MFI%TERMINID:)'
    /*      CONNECT TO A TERMINAL, AND USE A COMMAND AND PREFERENCE FILE:

```

ISPF: 4 steps

IPT: 1 step

All the modules from the development library have been copied to the Q/A library.



- You want to empty and compress the development library.
- *No Problem!*



# Empty and Compress a PDS

1. Use ISPF 3.4 to list the PDS

```

Data Set List Utility
Option ==> _____
blank Display data set list      P Print
  V Display VTOC information      PV Print
Enter one or both of the parameters below:
Dsname Level . . . DNET424.DEV.LOAD
Volume serial . . . _____
    
```

3. Delete members, page forward, delete members...

```

DSLIST          DNET424.DEV.LOAD
Command ==> _____
Name           Prompt      Alias-of
d _____ ADB2RCP
d _____ ADSTAT
d _____ ASAMDRV
d _____ ASAM1
d _____ ATCDEM0
d _____ ATCDEM2
d _____ ATCDEM4
    
```

Repeat step 3 several times

2. List Members

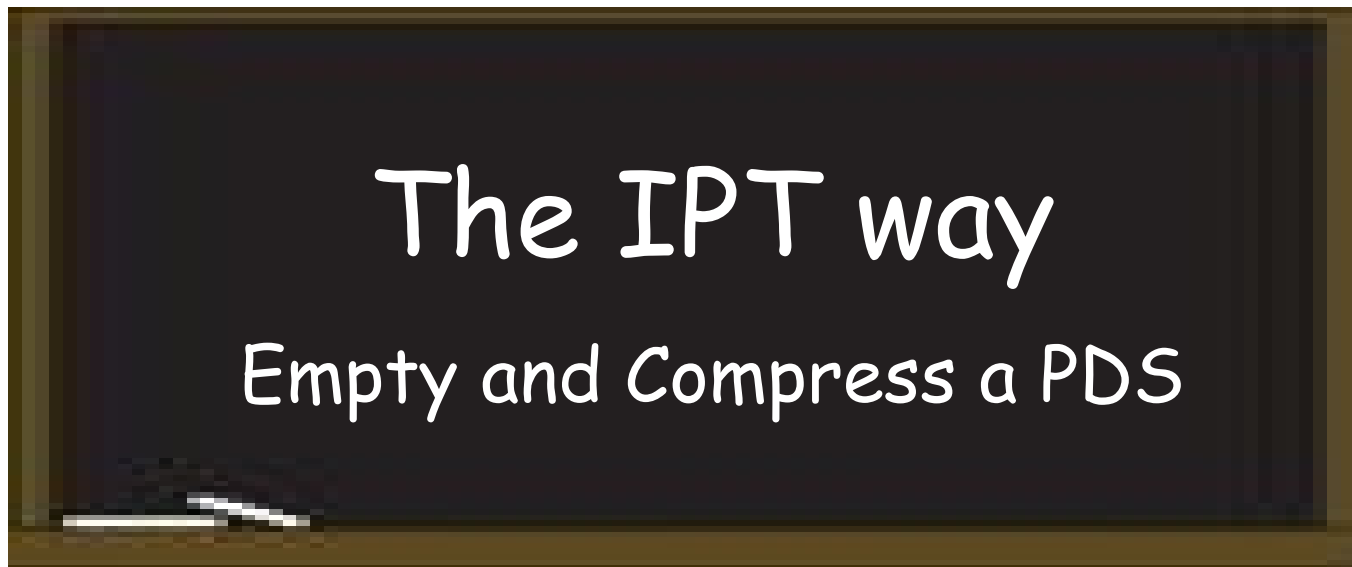
```

DSLIST - Data Sets Matching DNET424.DEV.LOAD
Command ==> _____
Command - Enter "/" to select action
-----
m          DNET424.DEV.LOAD
***** End of Data Set
    
```

4. Compress the data set

```

DSLIST - Data Sets Matching DNET424.DEV.LOAD
Command ==> _____
Command - Enter "/" to select action
-----
z          DNET424.DEV.LOAD
***** End of Data Set
    
```



## Empty and Compress a PDS

### 1. Issue "empty" command

```
-IPT--BROWSE L1---- DNET424.DEV.LOAD --
COMMAND ==> empty
HOTBAR: DOWN UP GLOBAL INFO
```

NAME	RENAME	LIB	SIZE	TTR	F
ADB2RCP		1	003B68	000415	
ADSTAT		1	001DA0	000808	
ASAMDRV		1	001438	000328	
ASAM1		1	000880	000400	
ATCDEMO		1	002C10	000815	



### 2. Confirm "empty" request

```
-IPT-          EMPTY Dataset Confirmation
COMMAND ==> _
```

```
+-----+
| Data set --> DNET424.DEV.LOAD
| Volume ----> DMPU23
|
| Approval --> y (Y/N)
| Press ENTER to proceed with action or the
+-----+
```





# IPT Shortcut Commands



# List History – using IPT option 2 - Edit

## 1. Show recent files

```

ISPF Project ==> DNET424
      Group ==> ADLAB ==> _____ ==> _____
      Type ==> JCL
      Member ==> _____ (Blank or pattern for
Other data set, VSAM file, or z/OS UNIX file:
@H for History-List or @L for 'DNET424.DEV.LOAD'
Name/Pattern ==> @H
    
```

## 3. PDS member edit

```

-IPT- EDIT DNET424.ADLAB.FILES(CUST2FA)
Command ==> _____
***** ***** Top
000001 01001C      Lynn, Amanda
000002 02200C      Graham, Anna
000003 02202C      Major, Art
000004 02202PCL00857Cello
000005 03003C      Prentice, Anna
    
```

## 2. Select a file (with PDS name)

Command	Member	Numbr	Data Set Names / Objects
		1	'DNET424.DEV.LOAD'
	*	2	ADLAB.LOAD
		3	DEV.LOAD
		4	ADLAB.LOAD
		5	'DNET424.MASTER.ADLAB.SOURCE'
5	CUST2FA	6	'DNET424.ADLAB.FILES'
		7	'DNET424.ADLAB.JCL'

# List System Files

## 1. OLS - List System Files

```
-IPT- IPT/ISPF Primary Option Menu
Option ==> ols

0 Settings Terminal and user parameters
1 Browse Display source data or listings
V View Display/change source data
2 Edit Create or change source data
3 Utilities Perform utility functions
4 Foreground Interactive language processing
```

## 3. PDS member edit

```
List type ==> 1
+-----+
1 - ACTIVE for this user
2 - CURRENT for the system
3 - IPL time
4 - LINKLIST name pattern
5 - JOB NAME pattern
6 - TSO USERID pattern
7 - ALL defined lists
+-----+
```

## 2. Select which type of files

```
List type ==> 1
+-----+
1 - LINKLIST libraries
2 - LPALIB libraries
3 - APF authorized libraries
4 - PARMLIB libraries
5 - All of the above
6 - BookManager BOOKs
7 - BookManager SHELFs
8 - SMP ZONE clusters
+-----+
```

## 4. Active Link List data sets

Command	Member	Numbr	Data Set Names / Objects
-LINKLIST	*ACTIVE*	1	!NAME=IPL
		2	'SYS1.LINKLIB'
		3	'SYS1.MIGLIB'
		4	'SYS1.CSSLIB'
		5	'SYS1.SIEALNKE'
		6	'SYS1.SIEAMIGE'
		7	'SYS1.CMDLIB'

## IPT Shortcuts (Application)

### IPT Shortcut Commands:

- OH Show most recently accessed data set names
- OL Display an Object List
- OLB Display an Object List of GDG base names
- OLC Display an Olist of cataloged datasets using patterns
- OLDD Display an Object List of datasets allocated to a DD name
- OLE Display an Object List of PDSE libraries
- OLG Display an Object List of GDG and data sets
- OLM Display an Object List of migrated (archived) data sets
- OLT Display an Object List of all tapes
- OLVS Display an Object List of all VSAM data sets



## IPT Shortcuts (System)

### IPT Shortcut Commands:

- OLS      Display an Object list of System data sets
- OLP      Display an Object List of Page Space data sets
- OLSH     Display an Object List of BookManager Shelves
- OLBK     Display an Object List of BookManager Books



# IPT = ISPF Productivity

- Enhances ISPF Productivity
  - ▶ Consolidates commands within a single panel
  - ▶ Presents a comprehensive, object-oriented, project- related list of data sets
  - ▶ Provides Extensive Point & Shoot capabilities
  - ▶ Extended TSO command execution
  - ▶ Automatic PDS compression
  - ▶ Reduces Keystrokes and EXCP counts
  - ▶ Enhanced Print and Clipboard Capabilities
  - ▶ Improves ISPF navigation
  - ▶ SCLM, Librarian, Panvalet Library support
  - ▶ Powerful Command Shortcuts



## Customer comments.....

- From product users:
  - ▶ "I used the product at my former company and loved it. When I took a new job, I asked my new company to install it. I can't work without it!"
  - ▶ "You have awakened our eyes on a truly remarkable and valuable productivity aid."
  - ▶ "It has allowed us to standardize our z/OS environment, and to eliminate the use of home made code (Macros and Clists) which were difficult to maintain."
  - ▶ "The Olist has given us a good starting point on our environment with the most frequently used commands all on one screen."
- From IBM field personnel:
  - ▶ I work with various customers all day, and miss it when I am at a location where it is not installed.

## More information

- Product number: PID 5698-A81, S&S 5698-S89
- For more information:  
[www.ibm.com/software/awdtools/ispfproductivitytool/](http://www.ibm.com/software/awdtools/ispfproductivitytool/)
- Product website includes:
  - ▶ Copy of this presentation
  - ▶ Side by side comparison of ISPF vs. IPT
  - ▶ Download a 90 day trial license
  - ▶ Product publications