

IBM ISPF Productivity Tool

IBM ISPF Productivity Tool for z/OS V 6.1

More Than Just ISPF



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ISPF Productivity Tool

Extends the productivity of ISPF

- Seamless integration with ISPF
- Organize files using Object Lists
- 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
- Reduce keystrokes



ISPF Productivity Tool – Compared to ISPF Using an Object List

Object List may be a list of files....

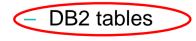
Numbr	Data Set Names / Objects	Class
1	'FILEMGR.V8R1.INSTALL'	PDS
2	'FILEMGR.V8R1.SFMNDBRM'	PDS
3	'FILEMGR.V8R1.SFMNEXEC'	PDS
4	'FILEMGR.V8R1.SFMNMAC1'	PDS
5	'FILEMGR.V8R1.SFMNMENU'	PDS
6	'FILEMGR.V8R1.SFMNMODA'	PDS
7	'FILEMGR.V8R1.SFMNMOD2'	PDS
8	'FILEMGR.V8R1.SFMNPENU'	PDS
9	'FILEMGR.V8R1.SFMNSAM1'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



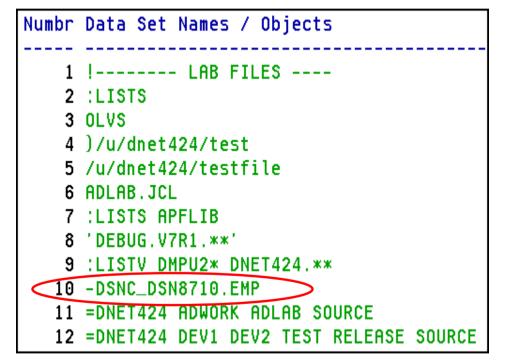
ISPF Productivity Tool – Compared to ISPF Using an Object List

Object List may also 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



Object List Example





Example 1 - Find a Member Within an OLIST with 13 PDS libraries

ISPF – Find a member	IPT – Find a member in an OLIST
 Steps Required: Use option 3.4 to locate files For each file: Browse each file Locate the member Exit the file Repeat the steps above for each of the 13 files Steps required for 13 files: 13 x 3 ≤ 39 	 Steps Required: Issue FM command in an OLIST Steps required.
Keystrokes: (B;Enter;L member;F3) (14*13) = 182 Time: 90 seconds	Keystrokes: (FM member;F5*x) (11+5) = 16 Time: 5 seconds
	ON DEMAND BUSINESS

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Example 2 – Find Text Within an Object List for 13 PDS or PDSE libraries

ISPF – Find text in a list of files

- Steps Required for 13 files:
- Use option 3.4 to locate files
- Split screen
- Navigate to option 3.14
- For each file:
 - 1. Copy name 3.4 list
 - 2. Paste name to 3.14 list
 - 3. Add wildcard to file name
 - 4. Enter
 - 5. End
- Repeat the steps above for each file
- Steps required for 13 files:
 - 3 + (13 * 5) € 68
- Advanced ISPF user
 - Use option 3.14 in batch
 - Copy files from 3.4
 - Paste files into batch job
 - Submit job

Keystrokes: 20 per file *13 = 260 Time: About 4 minutes

IPT – Find text in an Olist

- Steps Required:
 - Set Global parameters
 - Issue FT command
 - Steps required: 2

DBCS, case sensitive, and hexadecimal search strings added with IPT V6.1



Keystrokes: (FT text; Enter) = 10 Time: 5 seconds to key Time: 15 seconds to find string Workload: 500 PDS members and 8 libraries searched



Example 3 – Global Find with Multiple Criteria:

Move COBOL programs with text "Mike Rotter" to another library.

ISPF – Find text in a list of files	IPT – Find text in an Olist
 Steps Required: Use option 3.14 search for IDENTIFICATION Find 'Mike Rotter' For each "hit" Split screen Move the member to the target library Steps required: 2 + (20 * 2) + 42 Assumption: 20 programs found 	 Steps Required: Access the Object List GL FIND IDENTIFICATION GL FIND 'Mike Rotter' Move all members to target library Steps required: 4
Estimated keystrokes: 200 Estimated time: 4 minutes	Keystrokes: (GL; F text;F3) *2 Keystrokes: 16 Time: 30 seconds
	ON DEMAND BUSINESS [™]

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Example 4 – Identify Invalid APF libraries

ISPF – Identify Invalid APF Libs	IPT – Identify Invalid APF Libs
 Steps Required: Locate APF list in SYS1.PARMLIB For each library: Copy the name of the library Paste library name into option 1 Copy the volume name Copy the volume name Paste volume Enter Enter End Steps Required: 2 + (359 * 6) = 2156 Assumption: There are 359 APF libraries	 Steps Required: 1. Issue OLS APFLIB command 2. Issue VALIDATE command 3. Issue SORT CLASS command Steps required: 3
Keystrokes: About 2000 Time: About 40 minutes	Keystrokes: About 30 Time: 30 seconds

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Example 5 – PDS Directory Full

ISPF – Expand PDS Directory	IPT – Expand PDS Directory
 Steps Required: Copy in-flight work (PDS member) to another dataset Allocate new PDS with more Directory Blocks Copy all members to new PDS Validate all members copied Delete old PDS Rename new PDS to old PDS name Move in-flight PDS member to new PDS Edit original member to continue Steps required: 8 	 Steps Required: IPT presents a panel indicating Directory is full Press Enter to compress and save your work Steps required.

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Example 6 – Locate VSAM files with mask

ISPF – Locate VSAM files	IPT – Locate VSAM files
 Steps Required: Navigate to 3.4 Enter a file mask Sort the files by Volume Locate *VSAM Steps Required: 4 	 Steps Required: OLVS mask Steps required: 1 Note: Same steps may be used for: VSAM files Migrated files PDS/E files Tapes Files residing on a volume or volume pattern Generation datasets

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Example 7 – Edit File from SDSF

IPT – Edit VSAM file from SDSF
 Steps Required: Type EDIT as the command Place cursor on the file Modify the data Steps required: 3

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Example 8 – Recall a List of Migrated Files

ISPF – Recall Migrated Files	IPT – Recall Migrated Files
 Steps Required: Navigate to option 2 Enter file name Sort Volume Locate Migrate For each page of files (4 pages) Enter HRECALL on first migrated file Enter = on following lines Press Enter Steps required: 4 + (3 x 4) = 16 	 Steps Required: Type OLM DNET424 Type 1-* HRECALL Steps required (2)

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Example 9 – Empty and compress a PDS with 200 members

ISPF – Empty a PDS or PDSE	IPT – Empty a PDS or PDSE
 Steps Required: Navigate to 3.4 Enter PDS library name For each page (5 pages) "D" for each member (17) Forward (F8) Enter to delete members Compress the PDS Steps required: 4 + ((17+1)*5) = 94 Alternative: Allocate new PDS View PDS using Option 3.2 Allocate similar PDS Delete old PDS Rename new PDS Steps required: 4 Assumption: 85 members	 Steps Required: OL library name EMPTY Steps Required: 2

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IPT Assist

- Available using Object List and Member Selection Lists
- Provides easy access to IPT Commands

-IPT- Cmd ====)	>	01	IST Comma	and Assis	tance		Тор	of	data		
For mo Enter While	ore detai END or Cf reviewing ss ENTER	ANCEL to o g an ASSI , and be p	exit ST example prompted (e you may with comma	enter an and over	OLIST cor the OLIST	nmand,				
EXCLUDE LISTALOC LISTPAGE LOCATE RELEASE SHOWTYPE	#f-#l EXPORT LISTBASE LISTPDSE	CANCEL FILLVOL LISTBOOK LISTSHLF OPEN RFIND SORT	FILTER LISTCAT LISTSMP OPRINT RIGHT TITLE	CMDPARMS FIND LISTGDG LISTSYS PASTE SAVE UPDATE	CUT FINDTEXT LISTHIST LISTTAPE POPULATE SET	DEFAULT FLIP LISTMIGR LISTVSAM	LISTVTOC REFRESH				3
/ ALLOCATE DSLIST INFO	/D /DD BF EDIT	/I BROWSE EF LISTBOOK	/R CATALOG EMPTY LISTCAT MOVE	/X /XX COMPRESS EXPDIR	COPY FREE	<pre>?<cmd> COPYALL HDELETE LISTSHLF PRINT <other></other></cmd></pre>	% <exec> DELETE HLIST LISTSMP RENAME</exec>	3	4	Curve	7

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Permanent TSO Command Shell

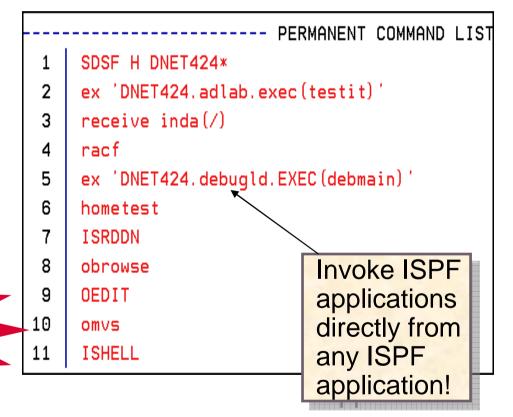
Permanent TSO Command Shell

- TSO /P List commands
- TSO x Directly invoke command
- Up to 999 lines retained
- Accessed from anywhere in ISPF
- Direct Access to any ISPF application

Organize Your Work

Improve Productivity

Permanent TSO Command List



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TSO Command Shell History

IPT TSO Command Shell History

- TSO /H List commands
- Up to 999 lines retained
- Accessed from anywhere in ISPF
- Direct Access to any ISPF application



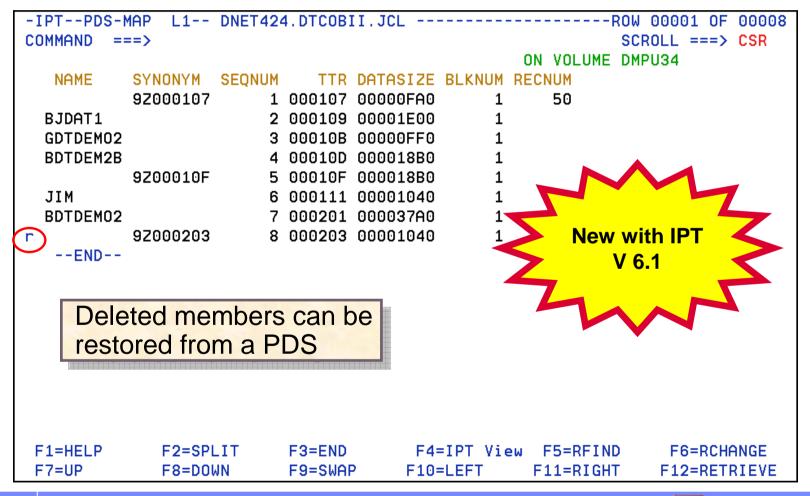
HISTORY COMMAND LIST ISHELL ISPEXEC SELECT panel(deb01) 2 3 call 'dnet424.adlab.load(adstat)' '/test' ispexec libdef ispplib dataset id ('DNET424.DEBUGLD.ISPPLIB' 4 ISPEXEC SELECT pan (deb01) 5 ispexec libdef ispslib dataset id ('DNET424.DEBUGLD.ISPSLIB' 6 sdsf o dnet424* 7 ex 'DNET424.debugld.EXEC(debmain)' 8 g 10 Ρ 11 OMVS 12 SDSF H DNET424* ISRDDN 13

IPT TSO Command History

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Recover Deleted PDS members

- Map a PDS directory
- View deleted members, and *restore* a member





OLIST and MSL Seamless Integration

- Tasks are completed within the ISPF native environment
- No need to navigate to a separate ISPF Shell and return

<u>F</u> ile <u>E</u> dit <u>F</u> ind <u>D</u> isplay P <u>o</u> pulate <u>S</u> ettings <u>M</u> enu <u>U</u> til <u>T</u> est <u>H</u>	≘lp E <u>x</u> it
	o 13 of 41 ===> <mark>CSR</mark>
Hotbar: OPRINT REFRESH CLRVOL FILLVOL UPDATE CUT FLIP	VALIDATE
Open list ===> ADLAB (or BLANK for reference list)	
Command Member Numbr Data Set Names / Objects	Class
1 'DNET424.ADLAB.CNTL'	PDS
2 'DNET424.ADLAB.COBOL'	PDSE
3 'DNET424.ADLAB.COPYLIB'	PDSE
4 'DNET424.ADLAB.COPYLIBI'	PDS
Minimize 5 'DNET424.ADLAB.COPYLIBO'	PDS
Learning	PDSE
	PDS
8 'DNET424.ADLAB.DBDSOURC'	PDSE
9 'DNET424.ADLAB.DTCMD'	SEQ
¹⁶ 11 12 12 13 15PF option 1, 2, 3.4 and 6 are similar t	o ISPF.
F1=HELP F2=SPLIT F7=UP F8=DOWN ISPF plus IPT commands may be enter an Object List or Member Selection List	•

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Large PDS libraries – 113944 members

ISPF – Large PDS library

IPT – Large PDS library

<u>M</u> enu <u>F</u> unctions <u>C</u> ont	firm <u>U</u> tilitie	Row O	9001 of	13944	Eile Display Library SCLM Set ROW 000001 OF 113944			
BROWSE ISODE	EV. PMR52301. SURV	/DATA	Row 00	0001 of 13944	-IPTBROWSE L1 ISODEV.PMR52301.SURVDATAROW 000001 OF 113944			
Command ===>			Scr	oll ===> <u>CSR</u>	COMMAND ===> SCROLL ===> PAGE			
Name Pro	ompt Size	Created	Changed	ID	HOTBAR: REFRESH FLIP TAI ? COMPRESS EXPDIR INFO TOTALS UNFILTER			
#LPRTBL#	1	2008/01/03	2008/01/03 16:	56:00 PT90	ON VOLUME USR036			
A0ASF001	0	2008/01/03	2008/01/03 06:3	37:00 PT90	NAME RENAME LIB VV.MM CREATED CHANGED SIZE INIT MOD USERID			
A0ASF002	0	2008/01/03	2008/01/03 06:3	37:00 PT90	#LPRTBL# 1 01.02 08/01/03 08/01/03 16:56 1 0 1 PT90			
A0ASF003	0	2008/01/03	2008/01/03 06:3	37:00 PT90	A0ASF001 1 01.00 03/01/03 08/01 2 06:37 0 0 PT90			
A0ASF004	0	2008/01/03	2008/01/03 06:3	37:00 PT90	A0ASF002 1 01.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
A0ASF005	0	2008/01/03	2008/01/03 06:3	37:00 PT90	A0ASF003 0 PT90			
A0ASF006	0	2008/01/03	2008/01/03 06:3		A0ASF004 0 PT90			
A0ASF007	0	2008/01/03	2008/01/03 06:3		A0ASF005			
A0ASF008	0	2008/01/03	2008/01/03 07::		A0ASF006 IPT – Large PDS			
A0ASF009	0	2008/01/03	2008/01/03 07::					
A0ASF010	0	2008/01/03	2008/01/03 07::		ADASFOOB Directory Support			
A0ASF011	0	2008/01/03	2008/01/03 07::		A0ASF009			
A0ASF012	0	2008/01/03	2008/01/03 07::		A0ASF010 0 PT90			
A0ASF013	0	2008/01/03	2008/01/03 07::		A0ASF011 PT90			
A0ASF014 A0ASE015	U	2008/01/03	2008/01/03 07::		A0ASF012 1 0<			
- Truncation on display					IPT uses Data Spaces			
- UP/Down limit of 99999					- Less memory below the line			
members					IPT LOCATE command allows			
					up/down navigation of 99,999,999			
					members			



More information on IPT

ISPF Productivity Tool website:

- http://www-306.ibm.com/software/awdtools/ispfproductivitytool/
- Click on Library for the publications

ISPF Productivity Tool Redbook website:

- http://www.redbooks.ibm.com/redpieces/abstracts/sg247587.html?Open

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