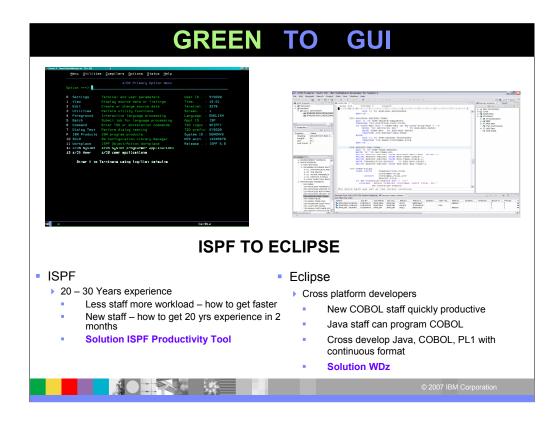


In this day and age some folks are shocked by the amount of COBOL that is not only out there in production running our core application, but is still being developed. What's even more shocking is the cost per line to replace COBOL. PI1 has similar statistics but approx a quarter of the numbers for COBOL.

IBM will walk you through how to utilize your valuable COBOL and PL1 assets and continue to be able to manage and develop in these languages with tools to ease the burden



From Green to GUI.. Many of us in this room have been working with ISPF for 20 - 30 years and are experts with the technique mastered. So when we have folks retire and reduced staff how do we pick up the pace to cover not only the existing but new workload? We could use a productivity tool that could take our 20 keystrokes down to 2 or 3. What if we added a new staff member right out of collage? How would he/she get up to speed quickly with our 20-30 years of experience... they can't, so with a productivity tool we can teach them 2-3 keystrokes and have them productive in ISPF in no time. The tool I'm speaking of is ISPF Productivity Tool (IPT) this is a tool IBM acquired from ISOGON a few years ago. It compliments ISPF and will be IBM's go forward strategy to add all productivity functions to this tool, IPT. Lets flip the coin over... with our System z environment becoming SOA enabled and needing to extend our COBOL and PL1 applications to have touch points or front ends with JAVA how can we work with these other programmers? We could use a tool. If we reflect back on those new COBOL programmers we added to ISPF, perhaps his we could give them the option to go to a GUI screen, something our newer "fresh out of college" programmers are used to. We need to look at each System z shop and you... you the lead sr application/system programmers and managers need to decide on the right mix of Green Screen to GUI. Over time we will see GUI become the mainstay, but for now, a "right" mix of both ISPF Productivity Tool and WDz would be a direction to consider. We will now discuss both of these products and their core functionality.

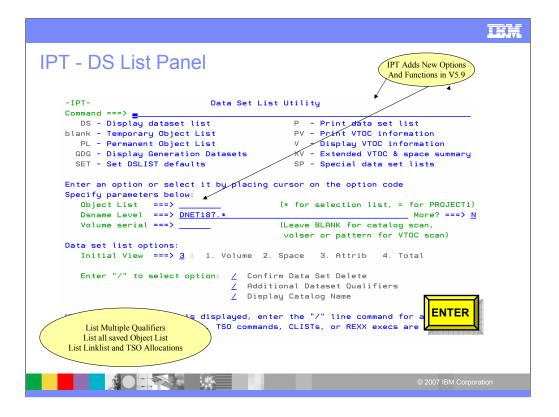
In case you are asked IPT is value uit based on system z unlimited users, WDZ is seat based per user.



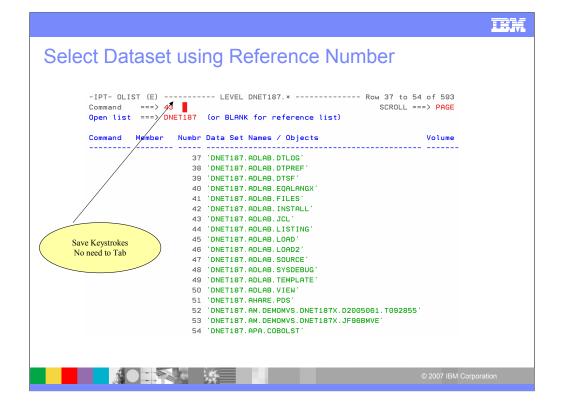


EX

DSLIST ISP	PF 3.4							
<u>M</u> enu <u>U</u> tilitie	Menu Utilities Compilers Options Status Help z/OS Primary Option Menu							
Option ===> <u>3.4</u>								
0 Settings 1 View	Terminal and user parameters Display source data or listings	User ID . : DNET187 Time : 13:53						
2 Edit	Create or change source data	Terminal. : 3278						
3 Utilities	Perform utility functions	Screen : 1						
4 Foreground	Interactive language processing	Language. : ENGLISH						
5 Batch	Submit job for language processing	Appl ID . : ISP						
6 Command	Enter TSO or Workstation commands	TSO logon : SPIFFY						
7 Dialog Test	Perform dialog testing	TSO prefix: DNET187						
P IBM Products	IBM program products	System ID : DEMOMVS						
10 SCLM	SW Configuration Library Manager	MVS acct. : 12345678						
11 Workplace	ISPF Object/Action Workplace	Release . : ISPF 5.8						
12 z/OS System	z/OS system programmer applications							
13 z/OS User	z/OS user applications							
Enter X to	Terminate using log/list + foults							
	IPT fits seamlessly into ISPF	ENTER						
	Customization of functions can be controll							
	at the Global or User level.	led						
		© 2007 IBM Corporation						

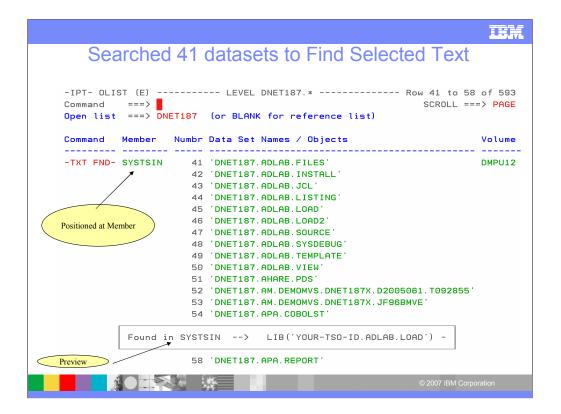


-IPT- OLIST (E) Command ===>		LEVEL		isplay assist OLL ===> <mark>PAGE</mark> EMPORARY LIST
Command Member	Numbr	Data Set	Names / Objects	Volume
	1	DNET187	ABX.DB2UTDST'	DMPU24
	2	DNET187	ABX.DB2UTSRC'	DMPU29
Perform Utility Functions	3	DNET187	ABX.ISPFILE'	DMPU11
Compress Datasets	4	DNET187	ABX.JCL'	DMPU28
Add Directory Blocks	5	DNET187	ABX.REQLIB'	DMPU28
Find Text	6	DNET187	ABX.TEMP.D070504.T152738.CMD'	DMPU26
Find Members	7	DNET187	ABX.TEMP.D070504.T152738.CORR'	DMPU24
	8	DNET187	ABX.TEMP.D070504.T152738.LOG'	DMPU18
	9	DNET187	ABX.TEMP.D070504.T152738.L0G2'	DMPU19
	/ 10	DNET187	ABX.TEMP.D070504.T152738.ORG'	DMPU18
	/ 11	DNET187	ABX.TEMP.D070504.T152738.XML'	DMPU26
/	12	DNET187	ABX.TEMP.D070524.T123650.CMD'	DMPU04
/	13	DNET187	ABX.TEMP.D070524.T123650.CORR'	DMPU18
	14	DNET187	ABX.TEMP.D070524.T123650.LOG'	DMPU01
	15	DNET187	ABX.TEMP.D070524.T123650.L0G2'	DMPU24
	16	DNET187	ABX.TEMP.D070524.T123650.ORG'	DMPU29
Numbered List	17	DNET187	ABX.TEMP.D070524.T123650.XML'	DMPUOS
For quick acess	18	'DNET187	ABX, TMPFB'	DMPU28



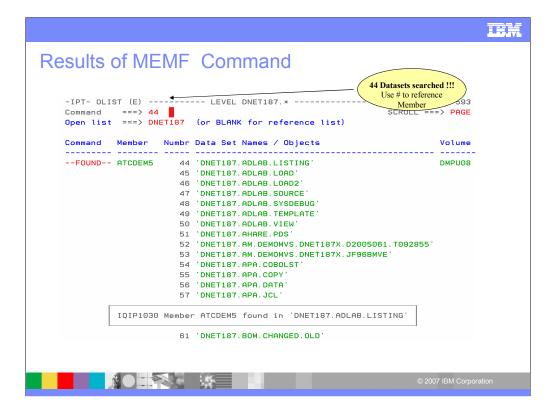
-IPTEDIT L1	DNET187.ADLAB.JCL		- "A" will d	isplay assist	
COMMAND ===>			SCRO	L ===> PAGE	
		ON	VOLUME DMPU	97	
NAME RENAME	LIB VV.MM CREATED	CHANGED	SIZE INIT	MOD USERID	
\$JOBCARD	1				
APAXX	1 01.01 07/06/27	07/06/27 13:08			
BADSTAT	1 01.00 07/05/24	07/05/24 08:52	36 36	0 DNET187	
BAPAAPI	1				
BASAM1	1				
BASAM1DR	1 01.00 07/05/31	. 07/05/31 13:34	37 37	0 DNET187	
BATCDEMO	1				
BATM01	1				
BCOBTIMS	1				
BCOBVSAM	1				
BCPROG	1				
BC01	1				
BDTDEMO	1				
BLABONE	1				
BLABTWO	1				
BPLILAN	1				
BPLIMVS	1				
BPTM01	1				
BSAM1	1				
BSAM2	1				

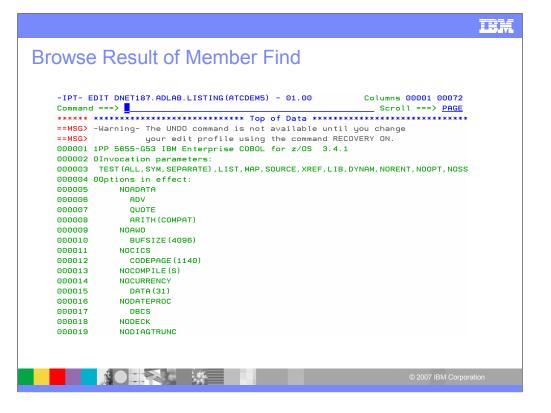
FindText Command (FT)	
-IPT- OLIST (E) LEVEL DNET187.* "A" will display assist Command ===> ft adlab.load SCROLL ===> PAGE Open list ===> DNET187 (or BLANK for reference list)	
Command Member Numbr Data Set Names / Objects Volume	
 I 'DNET187.ABX.DB2UTDST' 'DNET187.ABX.DB2UTSRC' 'DNET187.ABX.SPFILE' 'DNET187.ABX.SCL' 'DNET187.ABX.SCL' 'DNET187.ABX.TEMP.D070504.T152738.CMD' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070504.T152738.LOG' 'DNET187.ABX.TEMP.D070524.T123650.CDR' 'DNET187.ABX.TEMP.D070524.T123650.LOG' 	
© 2007 IBM Corpo	ration

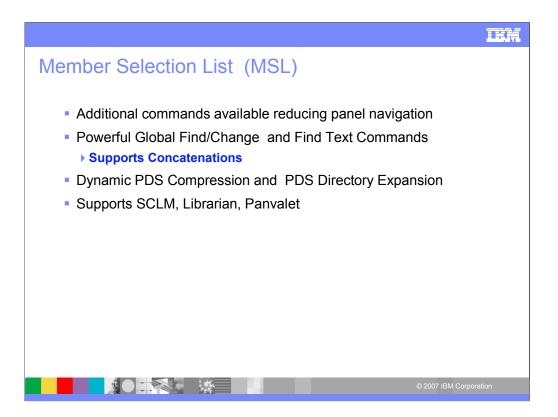


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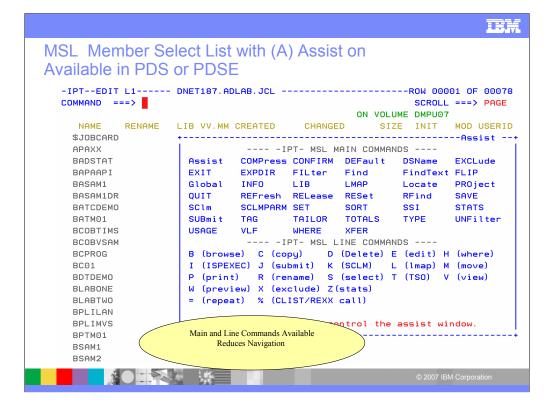
-IPT- OLIST (E) LEVEL DNET187.* "A" will display assist Command ===> memf atcdem5 SCROLL ===> PAGE Open list ===> DNET187 (or BLANK for reference list)					
Command Member Numbr Data Set Names / Objects Volume					
1 'DNET187.ABX.DB2UTDST'					
2 'DNET187.ABX.DB2UTSRC'					
3 'DNET187.ABX.ISPFILE'					
4 'DNET187. ABX. JCL'					
5 'DNET187.ABX.REQLIB'					
6 'DNET187. ABX. TEMP. D070504. T152738. CMD' 7 'DNET187. ABX. TEMP. D070504. T152738. CORR'					
8 'DNET187. ABX. TEMP. D070504. T152738. LOG'					
9 'DNET187.ABX.TEMP.D070504.T152738.L0G2'					
10 'DNET187.ABX.TEMP.D070504.T152738.ORG'					
11 'DNET187.ABX.TEMP.D070504.T152738.XML'					
12 'DNET187.ABX.TEMP.D070524.T123650.CMD'					
13 'DNET187.ABX.TEMP.D070524.T123650.CORR'					
14 'DNET187.ABX.TEMP.D070524.T123650.LOG'					
15 'DNET187.ABX.TEMP.D070524.T123650.L0G2'					
16 'DNET187.ABX.TEMP.D070524.T123650.ORG' 17 'DNET187.ABX.TEMP.D070524.T123650.XML'					



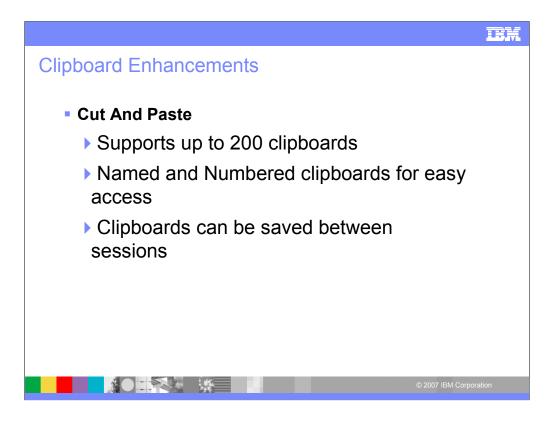




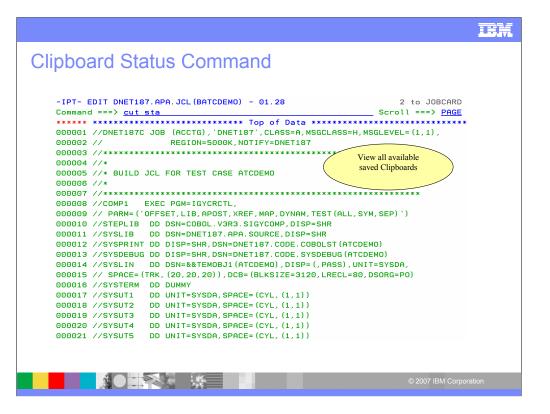
The MSL or member selection list is available when processing a PDS. Additional commands are available.

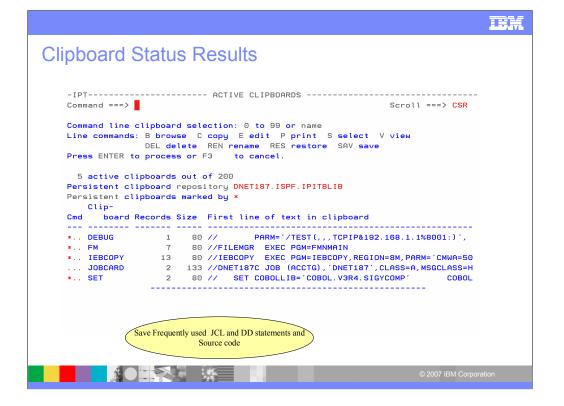


			IBM
Results of MSL L	MAP Comm	and	
NAME RENAM	ME LIB SIZE +	Obtain Module information With a command from Member list	
-IPTModule analysi COMMAND ===> Commands:Down, End,		D LINE 00000020 COL SCROLL =	
Member ===> <u>ADSTAT</u>		Display mode ===> <u>H</u> (M=Map, H D to exit	=History)
ADSTAT MODULE ANALY	SIS THIS LOAD MODUL	ESSED EITHER BY VS LINKAGE EDIT LISTIDR FOR LOAD MODULE ADST E CONTAINS NO INFORMATION SUPPL	AT
	IDULE WAS PRODUCED E		
		Y LINKAGE EDITOR 5695PMB01 AT	LEVEL 01.
CSECT	TRANSLATOR	VR.MD	
CSECT ADSTAT	TRANSLATOR 5655G5300	VR.MD 34.01	
CSECT ADSTAT ADSORT	TRANSLATOR 565565300 565565300	VR.MD 34.01 34.01	 2 2
CSECT ADSTAT	TRANSLATOR 565565300 565565300 569623400	VR.MD 34.01 34.01 01.05	 2 2
CSECT ADSTAT ADSORT IGZCBSO	TRANSLATOR 5655G5300 5655G5300 569623400 PL/X-390	VR.MD 34.01 34.01 01.05 02.03	
CSECT ADSTAT ADSORT IGZCBSO CEESTART	TRANSLATOR 565565300 565565300 569623400 PL/X-390 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05	
CSECT ADSTAT ADSORT IGZCBSO CEESTART CEEBETBL	TRANSLATOR 565565300 565565300 569623400 PL/X-390 569623400 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05 01.05	
CSECT ADSTAT ADSORT IGZCBSO CEESTART CEEBETBL CEEBLLST	TRANSLATOR 565505300 565505300 569623400 PL/X-390 569623400 569623400 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05 01.05 01.05	
CSECT ADSTAT ADSORT IGZCBSO CEESTART CEEBETBL CEEBLST CEEBTRM	TRANSLATOR 565565300 565565300 568623400 PL/X-390 569623400 569623400 569623400 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05 01.05 01.05 01.05	
CSECT ADSTAT ADSORT IGZCBSO CEESTART CEEBETBL CEEBLLST CEEBTRM CEEBPUBT	TRANSLATOR 565565300 568523400 PL/X-390 568623400 569623400 569623400 569623400 569623400 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05 01.05 01.05 01.05 01.05 01.05	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CSECT ADSTAT ADSORT IGZCBSO CEESTART CEEBETBL CEEBLST CEEBTRM	TRANSLATOR 565565300 565565300 568623400 PL/X-390 569623400 569623400 569623400 569623400	VR.MD 34.01 34.01 01.05 02.03 01.05 01.05 01.05 01.05	LEVEL 01. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



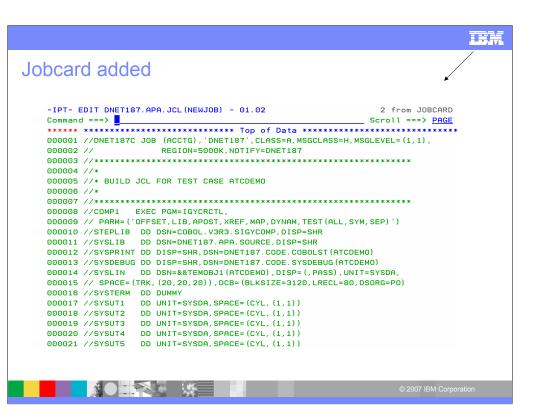


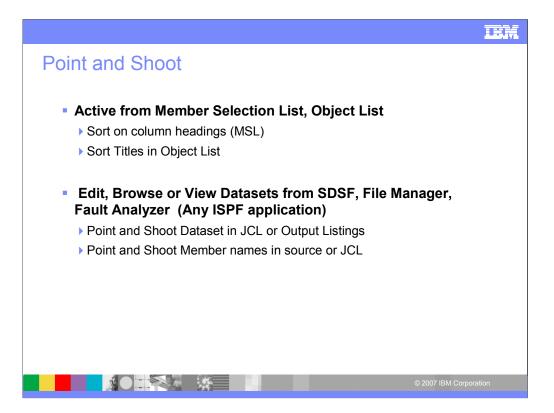




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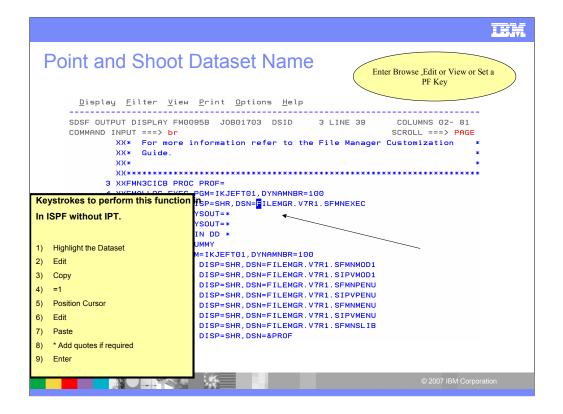
Paste From Named Clipboard -IPT- EDIT DNET187.APA.JCL (NEWJOB) - 01.01 Columns 00001 00072 Command ===> paste from jobcard ____Scroll ===> <u>PAGE</u> 000002 //* 000003 //* BUILD JCL FOR TEST CASE ATCDEMO 000004 //* 000006 //COMP1 EXEC PGM=IGYCRCTL, 000007 // PARM=('OFFSET,LIB,APOST,XREF,MAP,DYNAM,TEST(ALL,SYM,SEP)') 000008 //STEPLIB DD DSN=COBOL.V3R3.SIGYCOMP,DISP=SHR 000009 //SYSLIB DD DSN=DNET187.APA.SOURCE,DISP=SHR 000010 //SYSPRINT DD DISP=SHR, DSN=DNET187. CODE. COBOLST (ATCDEMO) 000011 //SYSDEBUG DD DISP=SHR, DSN=DNET187. CODE. SYSDEBUG (ATCDEMO) 000012 //SYSLIN DD DSN=&&TEMOBJ1(ATCDEMO),DISP=(,PASS),UNIT=SYSDA, 000013 // SPACE=(TRK, (20,20,20)),DCB=(BLKSIZE=3120,LRECL=80,DSORG=PO) 000013 // SPACE= (TRK, (20, 20, 20)), DCB= (BLKSIZE=3120) 000014 //SYSTERM DD DUMMY 000015 //SYSUT1 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000016 //SYSUT2 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000017 //SYSUT3 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000018 //SYSUT4 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000018 //SYSUT5 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000020 //SYSUT5 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000021 //SYSUT6 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) 000021 //SYSUT7 DD UNIT=SYSDA, SPACE= (CYL, (1, 1)) © 2007 IBM Corporation



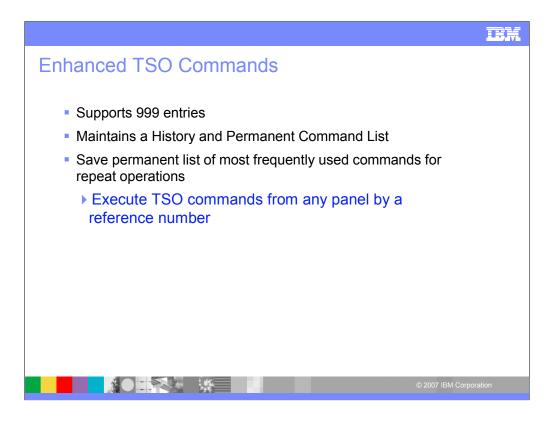


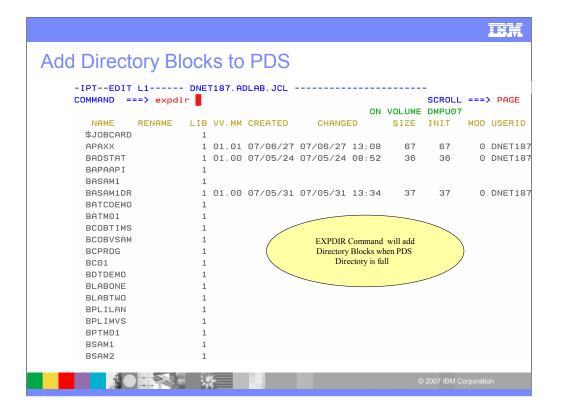
Point and shoot allows you to access datasets from any ISPF application. Place you cursor on the dataset and type in browse or edit. This is a powerful time saving function of IPT. Member names can also be accessed by the point and shoot function in source.

Column headings are point and shoot fields for sorting.

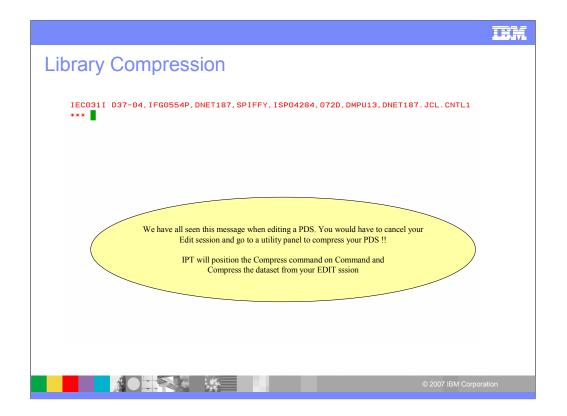


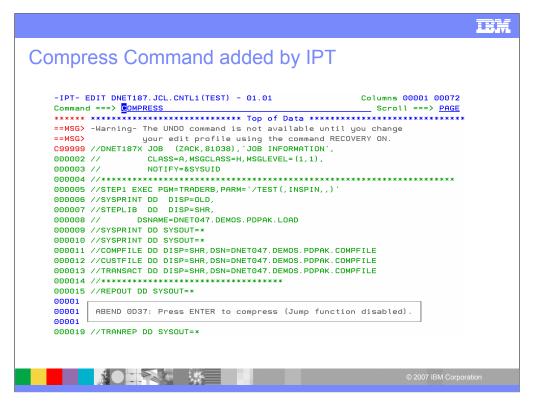
	SE L1 F ==>	LEMGR.V	7R1.SFMNEX	EC	"Α" w		play assist . ===> PAGE	
NAME	RENAME L	в VV. ММ	CREATED	CHANGED	SIZE	INIT	MOD USERID	
FMNDSI		1						
FMNINV		1						
FMN2BRWS		1						
FMN2CDI		1						
FMN2CPYB		1						
FMN2CUST		1						
FMN2DB2I		1						
FMN2DDLD		1						
FMN2DDLS		1						
FMN2DDLT		1						
FMN2DDLX		1						
FMN2DDLY		1						
FMN2DSN		1						
FMN2EDF		1						
FMN2ESQL		1						
FMN2GEN		1						
FMN2JSQ		1						
FMN2KSQ		1						
FMN2LCAT		1						
FMN2MED1		1						

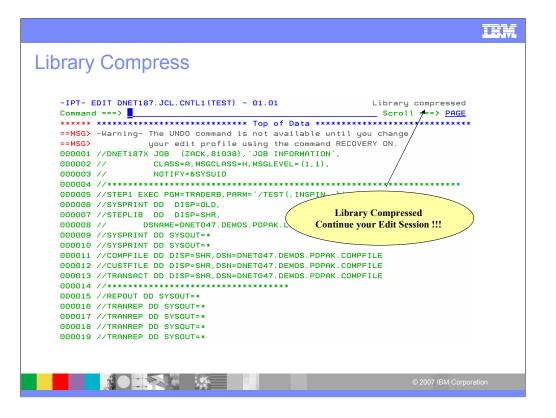




-IPTEDIT COMMAND =:	_	DNET	F187.AI	DLAB.JCL				- Libra SCROLL		
						ON	VOLUME			
NAME	RENAME	LIB	VV.MM	CREATED	CHANG	ED	SIZE	INIT	MOD	USERID
\$JOBCARD		1								
APAXX		1	01.01	07/06/27	07/06/27	13:08	67	67	Ο	DNET187
BADSTAT		1	01.00	07/05/24	07/05/24	08:52	36	36	Ο	DNET187
BAPAAPI		1								
BASAM1		1								
BASAM1DR		1	01.00	07/05/31	07/05/31	13:34	37	37	Ο	DNET187
BATCDEMO		1								
BATM01		1								
BCOBTIMS		1								
BCOBVSAM		1								
BCPROG		1								
BC01		1								
BDTDEMO		1								
BLABONE		1					block as de			
BLABTWO		1			A	dditional	parms ava	ailable		
BPLILAN		1								
BPLIMVS		1								
BPTM01 BSAM1		1								
BSAM1 BSAM2		1								
B2HWZ		1								





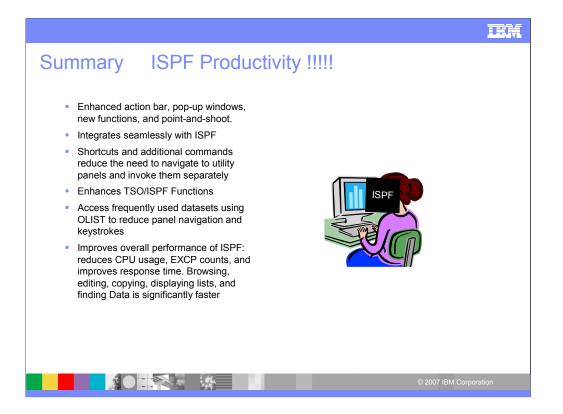


z/OS Primary Option Menu Option ===> <u>ipt?</u>						
Settings View Edit Utilities Foreground Batch Command Dialog Test IBM Products SCLM Workplace z/OS System z/OS User	Display source data or listings Create or change source data Perform utility functions Interactive language processing Submit job for language processing Enter TSO or Workstation commands Perform dialog testing Nucts IBM program products SW Configuration Library Manager ISPF Object/Action Workplace stem z/OS system programmer applications	User ID .: DNET187 Time: 15:09 Terminal.: 3278 Screen: 1 Language.: ENGLISH Appl ID .: ISP TSO logon : SPIFFY TSO prefix: DNET187 System ID : DEMOMVS MVS acct.: 12345678 Release .: ISPF 5.8				
Perform utility function Interactive language pu- Submit job for language Enter TSO or Workstatin Perform dialog testing IBM program products SW Configuration Libra ISPF Object/Action Work z/OS system programmer	ons rocessing e processing on commands ry Manager kplace	Screen : 1 Language. : ENGLISH Appl ID . : ISP TSO logon : SPIFFY TSO prefix: DNET187 System ID : DEMOMVS MVS acct. : 12345678				

-IPT-		CONMAND SHORTCUTS	Row 1 to 17 of 47	-IPT-		COMMAND SHORTCUTS	Row 18 to 34 of 47
CONNAND Connands			SCROLL ===> PAGE	CONNAND Connands			SCROLL ===> PAGE
SHORTCUT	CONNAND	DESCRIPTION		SHORTCUT	CONMAND	DESCRIPTION	
			-				
IPT ISET	IPTHELP	IPT HELP IPT SET OPTIONS		OLDD OLB		<pre><ddname> - LIST ALLOCATED <dsnpat> - LISTCAT BASE OF GENERATION</dsnpat></ddname></pre>	
INAINT		IPT MAINTENANCE REPORT		OLC		(DSNpat) - LISTCAT MULTIPLE PATTERNS	
IVER		IPT VERSION REPORT		OLE		(DSNpat) - LISTCAT PDSE LIBRARIES	
BR		'(DSNpat)((WEMpat))' - BROWSE		OLPDSE		(OSNpat) - LISTCAT PDSE LIBRARIES	
ED	EDIT	'(DSNpat)((NEMpat))' - EDIT		OLG	OLGDG	(DSNpat) - LISTCAT GDG DATASETS	
VI	VIEW	'(DSNpat)((NEMpat))' - VIEW		OLH		HISTORY LIST OF ACCESSED DATASETS	
BF	BFILE	'(DSNpat)((NEMpat))' - BROWSE VSAM		OLI		(DSNpat), (VOLpat) - LISTCAT + INFO	
EF	EFILE	(DSNpat)((NEMpat)) - EDIT VSAM		OLM		(DSNpat) - LISTCAT MIGRATED	
VF	VFILE	'(DSNpat)((MEMpat))' - VIEW VSAM		OLP	OLPAGE	(DSNpat) - LISTCAT PAGE-SPACE DATASETS	
0×		SHOW ALL OBJECT-LISTS		OLS	OLSYS	<pre>(SYStype) - LIST SYSTEM DATASETS</pre>	
0/		POPULATE NEW OBJECT-LIST		OLT	OLTAPE	(DSNpat) - LISTCAT TAPE DATASETS	
OH	OHIST	HISTORY LIST OF ACCESSED DATASETS		OLV	OLVTOC	<pre><volpat>, <dsnpat> - LISTVTOC DATASETS</dsnpat></volpat></pre>	
OLIS	OLIST	<pre><parm1>, <parm2> - OBJECT-LIST</parm2></parm1></pre>		OLVS	OLVSAM	<pre><dsnpat> - LISTCAT VSAM CLUSTERS</dsnpat></pre>	
OL		<pre><parm1>, <parm2> - OBJECT-LIST</parm2></parm1></pre>		EX?	EX??????	DISPLAY TSO PERMANENT COMMANDS	
OL×		SHOW ALL OBJECT-LISTS		EX=		DISPLAY TSO MOST RECENT COMMAND	
OL/		POPULATE NEW OBJECT-LIST		EX1		EXECUTE TSO PERMANENT COMMAND #1	

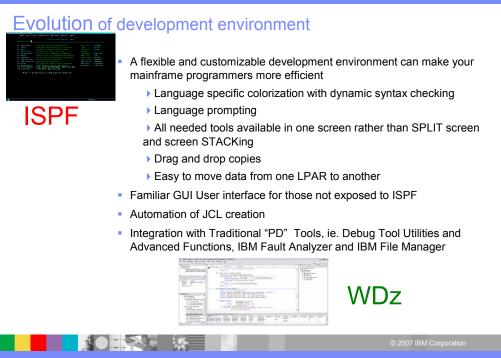
	splay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> pti 		
	AND INPUT ===> olh		SCROLL ===> PAGE
DA	Active users	INIT	Initiators
I	Input queue	PR	Printers
0	Output queue	PUN	Punches
н	Held output queue	RDR	Readers
ST	Status of jobs		Lines
		NODE	
LOG	System log	SO	Spool offload
SR	System requests	SP	Spool volumes
MAS	Members in the MAS		
JC	Job classes	RM	Resource monitor
SE	Scheduling environments	СК	Health checker
RES	WLM resources		
Licer	nsed Materials - Property of	Fre	m any ISPF Panel obtain a list of
ECO4	-A01 (C) Copyright IBM Co		Last 100 datasets accessed.
	overnment Users Restricte		
	losure restricted by GSA A	Save Keyst	rokes and Time on repeat functions !!!!!
4150	Coscie restricted by don HD		





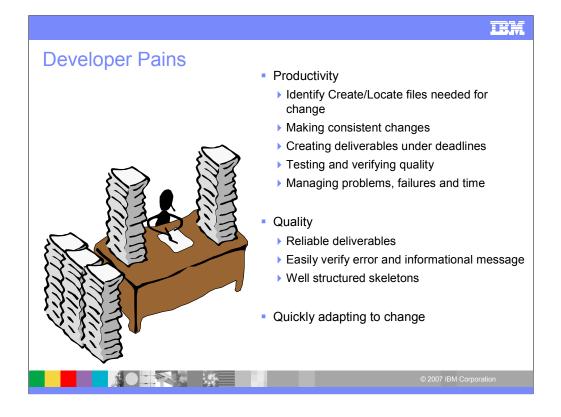
IPT saves time. Every TSO will benefit from using IPT.

IEM









Easily connecting and reconnecting to multiple systems Finding files needed for their work Quickly and accurately developing/modifying programs Quickly identify and create test data Testing new and changed code

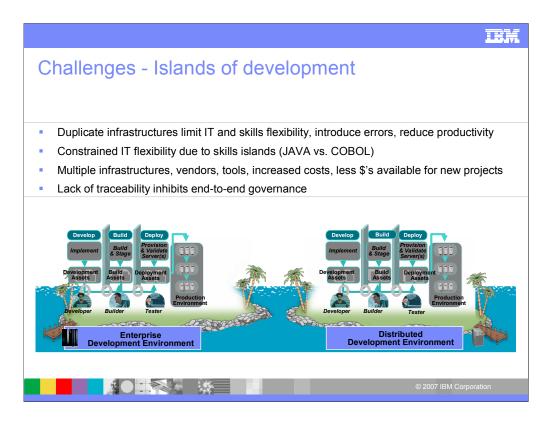


International development - Icons fits language constraints

Skill Gap – With context menus and pull down selection bars save time

Save Money – Less Vendors, Less Training, Easier adapt for new people (Standardize)

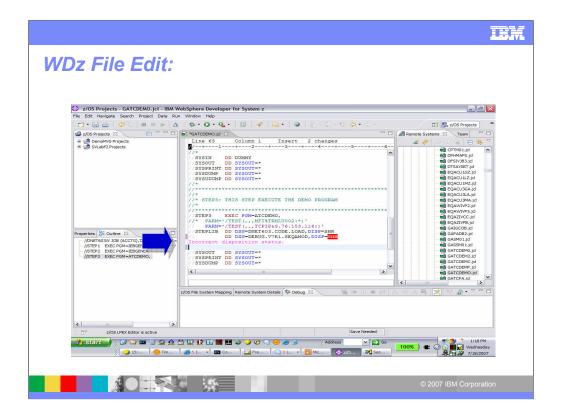


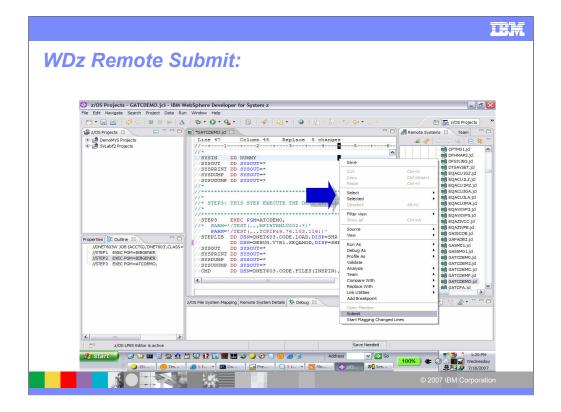


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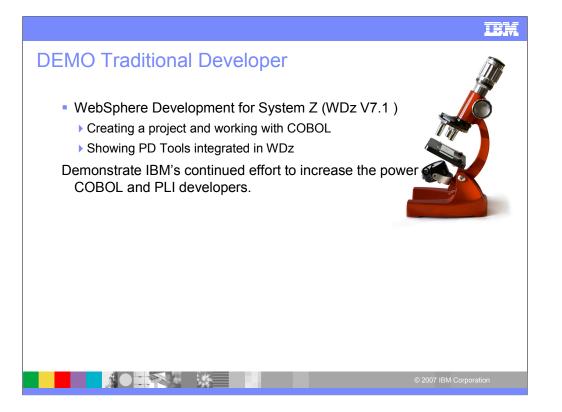
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