



IBM Software Group

z/OS Problem Determination Tools

“Green to GUI”:
The perfect mix of ISPF and Eclipse

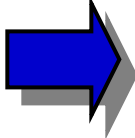


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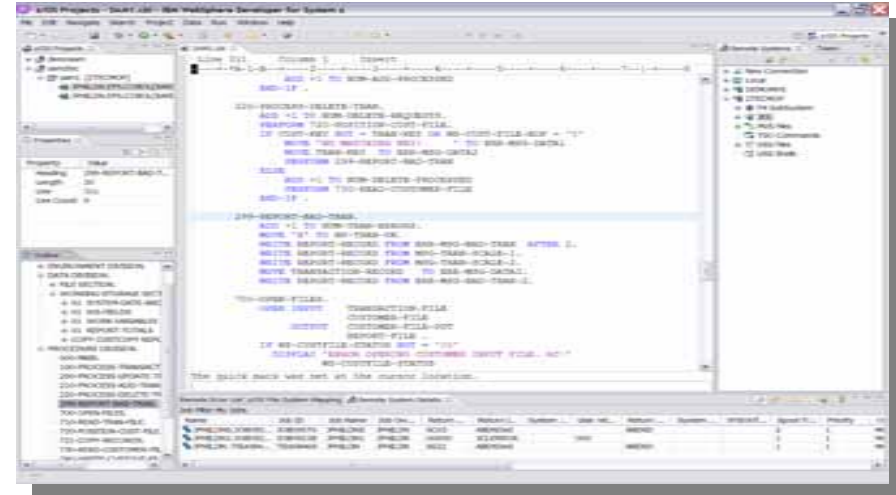
Agenda:

- 
- *Session Introduction*
 - *IBM ISPF Productivity Tool (IPT) Overview*
 - *IBM IPT Functional “Walkthrough”*
 - *WDz Overview*
 - *WDz Functional “Walkthrough”*
 - *Questions/Roundtable Discussion*

GREEN TO GUI



A terminal window showing the z/OS Primary Option Menu. The menu lists various options such as Settings, View, Edit, Utilities, Foreground, Batch, Command, Dialog Test, IBM Products, GCLM, Workplace, z/OS System, and z/OS User. The terminal also displays system parameters like User ID, Time, Terminal, Screen, Language, Appl ID, TSO logon, TSO prefix, System ID, MVS acct, and Release.



A screenshot of the Eclipse IDE showing a COBOL program. The main editor displays COBOL code with syntax highlighting. The interface includes a project browser on the left, a package explorer on the right, and a console at the bottom.

ISPF TO ECLIPSE

- ISPF
 - ▶ 20 – 30 Years experience
 - Less staff more workload – how to get faster
 - New staff – how to get 20 yrs experience in 2 months
 - **Solution ISPF Productivity Tool**
- Eclipse
 - ▶ Cross platform developers
 - New COBOL staff quickly productive
 - Java staff can program COBOL
 - Cross develop Java, COBOL, PL1 with continuous format
 - **Solution WDz**



Agenda:

- **Session Introduction**
- **IBM ISPF Productivity Tool (IPT) Overview**
- **IBM IPT Functional “Walkthrough”**
- **WebSphere Developer for System z (WDz) Overview**
- **WDz Functional “Walkthrough”**
- **Questions/Roundtable Discussion**

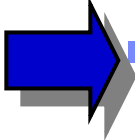
IBM ISPF Productivity Tool Functional Overview

■ **Enhances ISPF Productivity**

- ▶ *Consolidates commands within a single panel*
- ▶ *Presents a comprehensive, object-oriented project-related list of data sets*
- ▶ *Reduces Keystrokes and EXCP counts*
- ▶ *Provides Extensive Point & Shoot capabilities*
- ▶ *Extended TSO command execution*
- ▶ *Automatic PDS compression and Directory Expansion*
- ▶ *Enhanced Print and Clipboard Capabilities*
- ▶ *Improves ISPF navigation*
- ▶ *SCLM, Librarian, Panvalet Library support*
- ▶ *Enhanced patterns for finding data*
- ▶ *Powerful Command Shortcuts **NEW V5.9 !!***



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DSLISL ISPF 3.4

Menu Utilities Compilers Options Status Help

z/OS Primary Option Menu

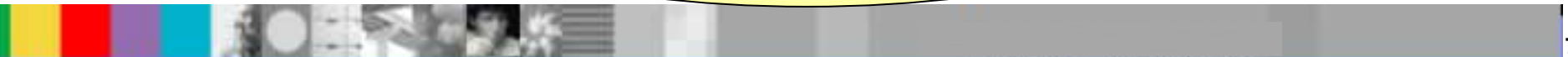
Option ==> 3.4

0	Settings	Terminal and user parameters	User ID . . :	DNET187
1	View	Display source data or listings	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

IPT fits seamlessly into ISPF

Customization of functions can be controlled at the Global or User level.



IPT - DS List Panel

IPT Adds New Options
And Functions in V5.9

```

-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
SET - Set DSLIST defaults           SP - Special data set lists
    
```

Enter an option or select it by placing cursor on the option code
Specify parameters below:

```

Object List   ==> _____ (* for selection list, = for PROJECT1)
Dsname Level ==> DNET187.* More? ==> N
Volume serial ==> _____ (Leave BLANK for catalog scan,
                               volser or pattern for VTOC scan)
    
```

Data set list options:

```
Initial View ==> 3 : 1. Volume 2. Space 3. Attrib 4. Total
```

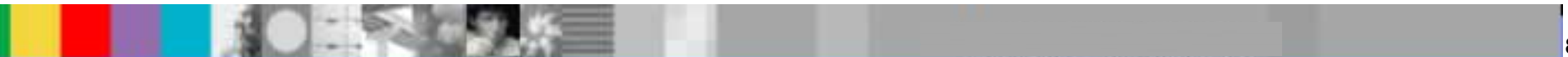
```

Enter "/" to select option: / Confirm Data Set Delete
                             / Additional Dataset Qualifiers
                             / Display Catalog Name
    
```



List Multiple Qualifiers
List all saved Object List
List Linklist and TSO Allocations

is displayed, enter the "/" line command for a list of
commands. TSO commands, CLISTs, or REXX execs are supported.



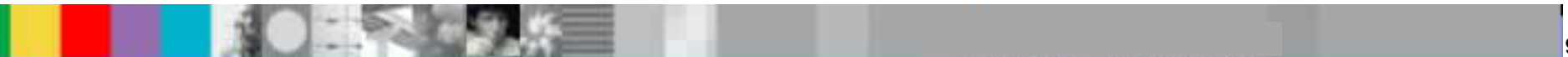
DSLIST in OLIST (Object List) Format

```
-IPT- OLIST (E) ----- LEVEL DNET187.* ----- "A" will display assist
Command  ==>                                     SCROLL ==> PAGE
                                                *TEMPORARY LIST*
```

Command	Member	Numbr	Data Set Names / Objects	Volume
		1	'DNET187.ABX.DB2UTDST'	DMPU24
		2	'DNET187.ABX.DB2UTSRC'	DMPU29
		3	'DNET187.ABX.ISPFILE'	DMPU11
		4	'DNET187.ABX.JCL'	DMPU26
		5	'DNET187.ABX.REQLIB'	DMPU26
		6	'DNET187.ABX.TEMP.D070504.T152738.CMD'	DMPU26
		7	'DNET187.ABX.TEMP.D070504.T152738.CORR'	DMPU24
		8	'DNET187.ABX.TEMP.D070504.T152738.LOG'	DMPU18
		9	'DNET187.ABX.TEMP.D070504.T152738.LOG2'	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.LOG2'	DMPU24
		16	'DNET187.ABX.TEMP.D070524.T123650.ORG'	DMPU29
		17	'DNET187.ABX.TEMP.D070524.T123650.XML'	DMPU08
		18	'DNET187.ABX.TMPFB'	DMPU26

Perform Utility Functions
 Compress Datasets
 Add Directory Blocks
 Find Text
 Find Members

Numbered List
 For quick access



Select Dataset using Reference Number

```
-IPT- OLIST (E) ----- LEVEL DNET187.* ----- Row 37 to 54 of 593
Command    ==> 43
Open list  ==> DNET187 (or BLANK for reference list)
          SCROLL ==> PAGE
```

Command	Member	Numbr	Data Set Names / Objects	Volume
		37	'DNET187.ADLAB.DTLOG'	
		38	'DNET187.ADLAB.DTPREF'	
		39	'DNET187.ADLAB.DTSF'	
		40	'DNET187.ADLAB.EQALANGX'	
		41	'DNET187.ADLAB.FILES'	
		42	'DNET187.ADLAB.INSTALL'	
		43	'DNET187.ADLAB.JCL'	
		44	'DNET187.ADLAB.LISTING'	
		45	'DNET187.ADLAB.LOAD'	
		46	'DNET187.ADLAB.LOAD2'	
		47	'DNET187.ADLAB.SOURCE'	
		48	'DNET187.ADLAB.SYSDEBUG'	
		49	'DNET187.ADLAB.TEMPLATE'	
		50	'DNET187.ADLAB.VIEW'	
		51	'DNET187.AHARE.PDS'	
		52	'DNET187.AM.DEMOMVS.DNET187X.D2005061.T092855'	
		53	'DNET187.AM.DEMOMVS.DNET187X.JF96BMVE'	
		54	'DNET187.APA.COBOLST'	

Save Keystrokes
No need to Tab

Edit of PDS selected

```

-IPT--EDIT L1----- DNET187.ADLAB.JCL ----- "A" will display assist
COMMAND ==>                                SCROLL ==> PAGE
                                           ON VOLUME DMPU07
  NAME      RENAME      LIB VV.MM  CREATED      CHANGED      SIZE  INIT  MOD  USERID
$JOB CARD          1
APAXX             1 01.01 07/06/27 07/06/27 13:08    67   67   0  DNET187
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
Open list  ==> DNET187 (or BLANK for reference list)
SCROLL ==> PAGE
```

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.LOG2'	
		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.LOG2'	
		16	'DNET187.ABX.TEMP.D070524.T123650.ORG'	
		17	'DNET187.ABX.TEMP.D070524.T123650.XML'	
		18	'DNET187.ABX.TMPFB'	

Search
Concatenated libraries

Searched 41 datasets to Find Selected Text

```
-IPT- OLIST (E) ----- LEVEL DNET187.* ----- Row 41 to 58 of 593
Command      ==> █ SCROLL ==> PAGE
Open list    ==> DNET187 (or BLANK for reference list)
```

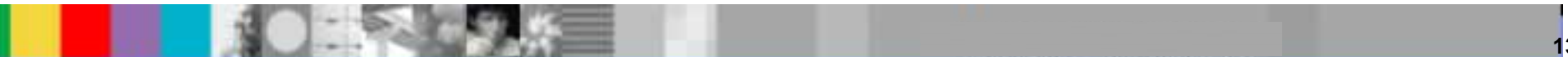
Command	Member	Numbr	Data Set Names / Objects	Volume
-TXT FND-	SYSTSIN	41	'DNET187.ADLAB.FILES'	DMPU12
		42	'DNET187.ADLAB.INSTALL'	
		43	'DNET187.ADLAB.JCL'	
		44	'DNET187.ADLAB.LISTING'	
		45	'DNET187.ADLAB.LOAD'	
		46	'DNET187.ADLAB.LOAD2'	
		47	'DNET187.ADLAB.SOURCE'	
		48	'DNET187.ADLAB.SYSDEBUG'	
		49	'DNET187.ADLAB.TEMPLATE'	
		50	'DNET187.ADLAB.VIEW'	
		51	'DNET187.AHARE.PDS'	
		52	'DNET187.AM.DEMOMVS.DNET187X.D2005061.T092855'	
		53	'DNET187.AM.DEMOMVS.DNET187X.JF96BMVE'	
		54	'DNET187.APA.COBOLST'	

Positioned at Member

Found in SYSTSIN --> LIB('YOUR-TSO-ID.ADLAB.LOAD') -

Preview

58 'DNET187.APA.REPORT'



Member Find Command (MEMF)

```
-IPT- OLIST (E) ----- LEVEL DNET187.* ----- "A" will display assist
Command    ==> memf atcdem5
Open list  ==> DNET187 (or BLANK for reference list)
                                SCROLL ==> PAGE
```

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.LOG2'	
		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.LOG2'	
		16	'DNET187.ABX.TEMP.D070524.T123650.ORG'	
		17	'DNET187.ABX.TEMP.D070524.T123650.XML'	
		18	'DNET187.ABX.TMPFB'	

Results of MEMF Command

44 Datasets searched !!!

Use # to reference
Member

```
-IPT- OLIST (E) ----- LEVEL DNET187.* ----- Row 44 to 61 of 593
Command      ==> 44
Open list    ==> DNET187 (or BLANK for reference list)
SCROLL ==> PAGE
```

Command	Member	Numbr	Data Set Names / Objects	Volume
--FOUND--	ATCDEM5	44	'DNET187.ADLAB.LISTING'	DMPU08
		45	'DNET187.ADLAB.LOAD'	
		46	'DNET187.ADLAB.LOAD2'	
		47	'DNET187.ADLAB.SOURCE'	
		48	'DNET187.ADLAB.SYSDEBUG'	
		49	'DNET187.ADLAB.TEMPLATE'	
		50	'DNET187.ADLAB.VIEW'	
		51	'DNET187.AHARE.PDS'	
		52	'DNET187.AM.DEMOMVS.DNET187X.D2005061.T092855'	
		53	'DNET187.AM.DEMOMVS.DNET187X.JF96BMVE'	
		54	'DNET187.APA.COBOLST'	
		55	'DNET187.APA.COPY'	
		56	'DNET187.APA.DATA'	
		57	'DNET187.APA.JCL'	

IQIP1030 Member ATCDEM5 found in 'DNET187.ADLAB.LISTING'

61 'DNET187.BOM.CHANGED.OLD'

Browse Result of Member Find

```
-IPT- EDIT DNET187.ADLAB.LISTING(ATCDEM5) - 01.00      Columns 00001 00072
Command ==>                                       Scroll ==> PAGE
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>          your edit profile using the command RECOVERY ON.
000001 1PP 5655-G53 IBM Enterprise COBOL for z/OS 3.4.1
000002 0Invocation parameters:
000003 TEST (ALL, SYM, SEPARATE), LIST, MAP, SOURCE, XREF, LIB, DYNAM, NORENT, NOOPT, NOSS
000004 0Options in effect:
000005      NOADATA
000006      ADV
000007      QUOTE
000008      ARITH (COMPAT)
000009      NOAWO
000010      BUFSIZE (4096)
000011      NOCICS
000012      CODEPAGE (1140)
000013      NOCOMPILE (S)
000014      NOCURRENCY
000015      DATA (31)
000016      NODATEPROC
000017      DBCS
000018      NODECK
000019      NODIAGTRUNC
```


Member Selection List (MSL)

- Additional commands available reducing panel navigation
- Powerful Global Find/Change and Find Text Commands
 - ▶ **Supports Concatenations**
- Dynamic PDS Compression and PDS Directory Expansion
- Supports SCLM, Librarian, Panvalet



MSL Member Select List with (A) Assist are Available in PDS or PDSE

```
-IPT--EDIT L1----- DNET187.ADLAB.JCL -----ROW 00001 OF 00078
COMMAND ===> █                               SCROLL ===> PAGE
```

ON VOLUME DMPU07

NAME	RENAME	LIB	VV.MM	CREATED	CHANGED	SIZE	INIT	MOD	USERID
\$JOB CARD									Assist
APAXX									
BADSTAT		Assist		COMPRESS	CONFIRM	DEFAULT	DSNAME		EXCLUDE
BAPAAPI		EXIT		EXPDIR	FILTER	FIND	FINDTEXT		FLIP
BASAM1		Global		INFO	LIB	LMAP	LOCATE		PROJECT
BASAM1DR		QUIT		REFRESH	RELEASE	RESET	RFIND		SAVE
BATCDEMO		SCLM		SCLMPARM	SET	SORT	SSI		STATS
BATM01		SUBMIT		TAG	TAILOR	TOTALS	TYPE		UNFILTER
BCOBTIMS		USAGE		VLF	WHERE	XFER			
BCOBVSAM									
BCPROG		B (browse)		C (copy)	D (Delete)	E (edit)	H (where)		
BC01		I (ISPEXEC)		J (submit)	K (SCLM)	L (lmap)	M (move)		
BDTDEMO		P (print)		R (rename)	S (select)	T (TSO)	V (view)		
BLABONE		W (preview)		X (exclude)	Z (stats)				
BLABTWO		= (repeat)		% (CLIST/REXX call)					
BPLILAN									
BPLIMVS									
BPTM01									
BSAM1									
BSAM2									

control the assist window.

Main and Line Commands Available
Reduces Navigation

Results of MSL LMAP Command



NAME	RENAME	LIB	SIZE
1 ADSTAT		+-----	
ASAMDRV			

Obtain Module information
With a command from Member list.

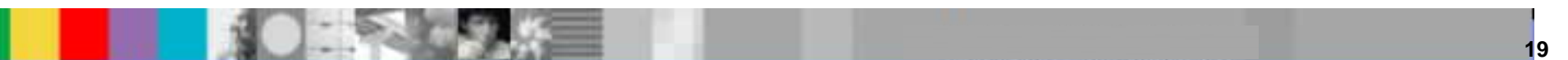
```
-IPT--Module analysis:DNET187.ADLAB.LOAD ----- LINE 00000020 COL 001 080
COMMAND ==>                                     SCROLL ==> PAGE
Commands:Down, End, Find, Up
Member   ==> ADSTAT                               Display mode ==> H (M=Map, H=History)
----- Press END to exit -----
```

*****LOAD MODULE PROCESSED EITHER BY VS LINKAGE EDITOR OR BIN
LISTIDR FOR LOAD MODULE ADSTAT

ADSTAT MODULE ANALYSIS
THIS LOAD MODULE CONTAINS NO INFORMATION SUPPLIED BY SP

THIS LOAD MODULE WAS PRODUCED BY LINKAGE EDITOR 5695PMB01 AT LEVEL 01.

CSECT	TRANSLATOR	VR.MD	
ADSTAT	5655G5300	34.01	2
ADSORT	5655G5300	34.01	2
IGZCBSO	569623400	01.05	2
	PL/X-390	02.03	2
CEESTART	569623400	01.05	2
CEEBETBL	569623400	01.05	2
CEEBLLST	569623400	01.05	2
CEEBTRM	569623400	01.05	2
CEEBPUBT	569623400	01.05	2
CEESG005	569623400	01.05	2
	PL/X-390	02.03	2



Clipboard Enhancements

- **Cut And Paste**
 - ▶ Supports up to 200 clipboards
 - ▶ Named and Numbered clipboards for easy access
 - ▶ Clipboards can be saved between sessions



Cut to named clipboard

```

-IPT- EDIT DNET187.APA.JCL (BATCDEMO) - 01.28          Columns 00001 00072
Command ==> CUT TO JOBCARD                        Scroll ==> PAGE
***** ***** Top of Data *****
CC      //DNET187C JOB (ACCTG), 'DNET187', CLASS=A, MSGCLASS=H, MSGLEVEL=(1,1),
CC      //
000003  //*****
000004  //*
000005  //* BUILD JCL FOR TEST CASE ATCDEMO
000006  //*
000007  //*****
000008  //COMP1   EXEC PGM=IGYCRCTL,
000009  // PARM=( ' OFFSET, LIB, APOST, XREF, MAP, DYNAM, TEST (ALL, SYM, SEP) ' )
000010  //STEPLIB DD DSN=COBOL.V3R3.SIGYCOMP, DISP=SHR
000011  //SYSLIB  DD DSN=DNET187.APA.SOURCE, DISP=SHR
000012  //SYSPRINT DD DISP=SHR, DSN=DNET187.CODE.COBOLST (ATCDEMO)
000013  //SYSDEBUG DD DISP=SHR, DSN=DNET187.CODE.SYSDEBUG (ATCDEMO)
000014  //SYSLIN   DD DSN=&&TEMOBJ1 (ATCDEMO), DISP=(, PASS), UNIT=SYSDA,
000015  // SPACE=(TRK, (20, 20, 20)), DCB=(BLKSIZE=3120, LRECL=80, DSORG=PO)
000016  //SYSTEM  DD DUMMY
000017  //SYSUT1   DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000018  //SYSUT2   DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000019  //SYSUT3   DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000020  //SYSUT4   DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000021  //SYSUT5   DD UNIT=SYSDA, SPACE=(CYL, (1, 1))

```

Cut to named or numbered Permanent Clipboards

Clipboard Status Command

```

-IPT- EDIT DNET187.APA.JCL (BATCDEMO) - 01.28                2 to JOBCARD
Command ==> cut sta                                       Scroll ==> PAGE
***** ***** Top of Data *****
000001 //DNET187C JOB (ACCTG), 'DNET187', CLASS=A, MSGCLASS=, UNIT=(1,1),
000002 //                REGION=5000K, NOTIFY=DNET187
000003 //*****
000004 //*
000005 //* BUILD JCL FOR TEST CASE ATCDEMO
000006 //*
000007 //*****
000008 //COMP1 EXEC PGM=IGYCRCTL,
000009 // PARM=( ' OFFSET, LIB, APOST, XREF, MAP, DYNAM, TEST (ALL, SYM, SEP) ' )
000010 //STEPLIB DD DSN=COBOL.V3R3.SIGYCOMP, DISP=SHR
000011 //SYSLIB DD DSN=DNET187.APA.SOURCE, DISP=SHR
000012 //SYSPRINT DD DISP=SHR, DSN=DNET187.CODE.COBOLST (ATCDEMO)
000013 //SYSDEBUG DD DISP=SHR, DSN=DNET187.CODE.SYSDEBUG (ATCDEMO)
000014 //SYSLIN DD DSN=&&TEMOBJ1 (ATCDEMO), DISP=(, PASS), UNIT=SYSDA,
000015 // SPACE=(TRK, (20, 20, 20)), DCB=(BLKSIZE=3120, LRECL=80, DSORG=PO)
000016 //SYSTEM DD DUMMY
000017 //SYSUT1 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000018 //SYSUT2 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000019 //SYSUT3 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000020 //SYSUT4 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000021 //SYSUT5 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))

```

View all available
saved Clipboards

Clipboard Status Results

-IPT----- ACTIVE CLIPBOARDS -----

Command ==> █

Scroll ==> CSR

Command line clipboard selection: 0 to 99 or name

Line commands: B browse C copy E edit P print S select V view

DEL delete REN rename RES restore SAV save

Press ENTER to process or F3 to cancel.

5 active clipboards out of 200

Persistent clipboard repository DNET187.ISPF.IPITBLIB

Persistent clipboards marked by *

Clip-

Cmd board Records Size First line of text in clipboard

```
-----
*.. DEBUG          1    80 //      PARM=' /TEST(,,TCPIP&192.168.1.1%8001:)',
*.. FM             7    80 //FILEMGR EXEC PGM=FMNMAIN
*.. IEBCOPY        13   80 //IEBCOPY EXEC PGM=IEBCOPY,REGION=8M,PARM='CMWA=50
... JOBCARD        2   133 //DNET187C JOB (ACCTG), 'DNET187',CLASS=A,MSGCLASS=H
*.. SET            2    80 //      SET COBOLLIB='COBOL.V3R4.SIGYCOMP'          COBOL
-----
```

Save Frequently used JCL and DD statements and
Source code

Paste From Named Clipboard

```

-IPT- EDIT DNET187.APA.JCL (NEWJOB) - 01.01                Columns 00001 00072
Command ==> paste from jobcard                        Scroll ==> PAGE
***** ***** Top of Data *****
b          //*****
000002 //*
000003 //* BUILD JCL FOR TEST CASE ATCDEMO
000004 //*
000005 //*****
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)
000014 //SYSTEM 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))
000019 //SYSUT5 DD UNIT=SYSDA, SPACE= (CYL, (1, 1))
000020 //SYSUT6 DD UNIT=SYSDA, SPACE= (CYL, (1, 1))
000021 //SYSUT7 DD UNIT=SYSDA, SPACE= (CYL, (1, 1))

```


Jobcard added

```
-IPT- EDIT DNET187.APA.JCL (NEWJOB) - 01.02                2 from JOBCARD
Command ==>                  Scroll ==> PAGE
***** ***** Top of Data *****
000001 //DNET187C JOB (ACCTG), 'DNET187', CLASS=A, MSGCLASS=H, MSGLEVEL=(1,1),
000002 //                REGION=5000K, NOTIFY=DNET187
000003 //*****
000004 //*
000005 //* BUILD JCL FOR TEST CASE ATCDEMO
000006 //*
000007 //*****
000008 //COMP1 EXEC PGM=IGYCRCTL,
000009 // PARM=( ' OFFSET, LIB, APOST, XREF, MAP, DYNAM, TEST (ALL, SYM, SEP) ' )
000010 //STEPLIB DD DSN=COBOL.V3R3.SIGYCOMP, DISP=SHR
000011 //SYSLIB DD DSN=DNET187.APA.SOURCE, DISP=SHR
000012 //SYSPRINT DD DISP=SHR, DSN=DNET187.CODE.COBOLST(ATCDEMO)
000013 //SYSDEBUG DD DISP=SHR, DSN=DNET187.CODE.SYSDEBUG(ATCDEMO)
000014 //SYSLIN DD DSN=&&TEMOBJ1(ATCDEMO), DISP=(, PASS), UNIT=SYSDA,
000015 // SPACE=(TRK, (20, 20, 20)), DCB=(BLKSIZE=3120, LRECL=80, DSORG=PO)
000016 //SYSTEM DD DUMMY
000017 //SYSUT1 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000018 //SYSUT2 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000019 //SYSUT3 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000020 //SYSUT4 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
000021 //SYSUT5 DD UNIT=SYSDA, SPACE=(CYL, (1, 1))
```

Point and Shoot

- **Active from Member Selection List, Object List**
 - ▶ Sort on column headings (MSL)
 - ▶ Sort Titles in Object List

- **Edit, Browse or View Datasets from SDSF, File Manager, Fault Analyzer (Any ISPF application)**
 - ▶ Point and Shoot Dataset in JCL or Output Listings
 - ▶ Point and Shoot Member names in source or JCL



Point and Shoot Dataset Name

Enter Browse ,Edit or View or Set a PF Key

```

Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY FM0095B  JOB01703  DSID      3 LINE 39      COLUMNS 02- 81
COMMAND INPUT ==> br                                SCROLL ==> PAGE
      XX* For more information refer to the File Manager Customization *
      XX* Guide. *
      XX* *
      XX*****
  
```

- Keystrokes to perform this function in ISPF without IPT.**
- 1) Highlight the Dataset
 - 2) Edit
 - 3) Copy
 - 4) =1
 - 5) Position Cursor
 - 6) Edit
 - 7) Paste
 - 8) * Add quotes if required
 - 9) Enter

```

INPROC PROF=
EXEC PGM=IKJEFT01,DYNAMNBR=100
DD DISP=SHR,DSN=FILEMGR.V7R1.SFMNEXEC
DD SYSOUT=*
DD SYSOUT=*
SYSTSIN DD *
DD DUMMY
EXEC PGM=IKJEFT01,DYNAMNBR=100
DD DISP=SHR,DSN=FILEMGR.V7R1.SFMNMOD1
DD DISP=SHR,DSN=FILEMGR.V7R1.SIPVMOD1
DD DISP=SHR,DSN=FILEMGR.V7R1.SFMNPENU
DD DISP=SHR,DSN=FILEMGR.V7R1.SIPVPENU
DD DISP=SHR,DSN=FILEMGR.V7R1.SFMNMENU
DD DISP=SHR,DSN=FILEMGR.V7R1.SIPVMENU
DD DISP=SHR,DSN=FILEMGR.V7R1.SFMNSLIB
DD DISP=SHR,DSN=&PROF
  
```


Enhanced TSO Commands

- Supports 999 entries
- Maintains a History and Permanent Command List
- Save permanent list of most frequently used commands for repeat operations
 - ▶ Execute TSO commands from any panel by a reference number

Enhanced TSO Commands

SPF/E

TSO COMMAND SHELL

Row 1 to 5 of 5

Command ==> █

Enter: TSO command, CLIST, REXX EXEC, or ISPEXEC statement. Scroll=> CSR
 /IS standard ISPF/TSO, /P permanent
 /EH edit history, /EP edit permanent, /SAV save, /RES restore
 <c><entry number> where <c> is ? or / or omitted.

```
----- HISTORY COMMAND LIST -----
1  IND$FILE GET 'SPFE.V5R8M1.V58PLIB(IQI@PRIM)' ASCII CRLF ->
2  IND$FILE GET 'USER.CLIST(SPFE581)' ASCII CRLF ->
3  IND$FILE GET 'USER.PROCLIB(SPFE581)' ASCII CRLF ->
4  *** The above commands copied from your initial PROFILE *** ->
5  ->
----- END OF COMMAND LIST -----
```

999 Temporary Entries

```
----- PERMANENT COMMAND LIST -----
1  IND$FILE GET 'USER.PROCLIB(SPFE581)' ASCII CRLF ->
2  IND$FILE GET 'USER.CLIST(SPFE581)' ASCII CRLF ->
3  IND$FILE GET 'SPFE.V5R8M1.V58PLIB(IQI@PRIM)' ASCII CRLF ->
4  IND$FILE GET 'SPFE.V5R8M9.V58PLIB(IQI@PRIM)' ASCII CRLF ->
5  IND$FILE GET 'SPFE.V5R8M11.V58PLIB(IQI@PRIM)' ASCII CRLF ->
6  IND$FILE GET 'SPFE.V5R8M12.V58PLIB(IQI@PRIM)' ASCII CRLF ->
7  LISTDS /
8  SUB 'TSS01.JCL.LIB(FORECAST)'
9  FREE FI(INFILE,OUTFILE)
```

999 Permanent Entries

Execute commands from any panel
 Example - TSO 7

Add Directory Blocks to PDS

-IPT--EDIT L1----- DNET187.ADLAB.JCL -----

COMMAND ==> expdir █

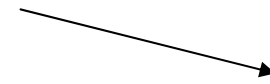
SCROLL ==> PAGE

ON VOLUME DMPU07

NAME	RENAME	LIB	VV.MM	CREATED	CHANGED	SIZE	INIT	MOD	USERID
\$JOB CARD		1							
APAXX		1	01.01	07/06/27	07/06/27 13:08	67	67	0	DNET187
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							

EXPDIR Command will add
Directory Blocks when PDS
Directory is full

Library Expanded



```

-IPT--EDIT L1----- DNET187.ADLAB.JCL ----- Library expanded
COMMAND ==> █                                SCROLL ==> PAGE
                                                ON VOLUME DMPU07
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    67   67   0  DNET187
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
    
```

Added 1 block as default
Additional parms available



Library Compression

```
IEC031I D37-04, IFG0554P, DNET187, SPIFFY, ISP04284, 072D, DMPU13, DNET187. JCL. CNTL1  
*** █
```

We have all seen this message when editing a PDS. You would have to cancel your Edit session and go to a utility panel to compress your PDS !!

IPT will position the Compress command on Command and Compress the dataset from your EDIT session

Compress Command added by IPT

```

-IPT- EDIT DNET187.JCL.CNTL1(TEST) - 01.01           Columns 00001 00072
Command ==> COMPRESS                               Scroll ==> PAGE
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>          your edit profile using the command RECOVERY ON.
C99999 //DNET187X JOB  (ZACK,81038), 'JOB INFORMATION',
000002 //          CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),
000003 //          NOTIFY=&SYSUID
000004 //*****
000005 //STEP1 EXEC PGM=TRADERB,PARM='/TEST(,INSPIN,,)'
000006 //SYSPRINT DD  DISP=OLD,
000007 //STEPLIB  DD  DISP=SHR,
000008 //          DSN=DNET047.DEMOS.PDPAK.LOAD
000009 //SYSPRINT DD SYSOUT=*
000010 //SYSPRINT DD SYSOUT=*
000011 //COMPFILE DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000012 //CUSTFILE DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000013 //TRANSACT DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000014 //*****
000015 //REPOUT DD SYSOUT=*
00001
00001 ABEND 0D37: Press ENTER to compress (Jump function disabled).
00001
000019 //TRANREP DD SYSOUT=*

```

Library Compress

```

-IPT- EDIT DNET187.JCL.CNTL1(TEST) - 01.01
Command ==>
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>          your edit profile using the command RECOVERY ON.
000001 //DNET187X JOB (ZACK,81038),'JOB INFORMATION',
000002 //          CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),
000003 //          NOTIFY=&SYSUID
000004 //*****
000005 //STEP1 EXEC PGM=TRADERB,PARM='/'
000006 //SYSPRINT DD DISP=OLD,
000007 //STEPLIB DD DISP=SHR,
000008 //          DSN=DNET047.DEMOS.PDPAK.LOAD
000009 //SYSPRINT DD SYSOUT=*
000010 //SYSPRINT DD SYSOUT=*
000011 //COMPFILE DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000012 //CUSTFILE DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000013 //TRANSACT DD DISP=SHR,DSN=DNET047.DEMOS.PDPAK.COMPFILE
000014 //*****
000015 //REPOUT DD SYSOUT=*
000016 //TRANREP DD SYSOUT=*
000017 //TRANREP DD SYSOUT=*
000018 //TRANREP DD SYSOUT=*
000019 //TRANREP DD SYSOUT=*

```

Library compressed
Scroll ==> PAGE

**Library Compressed
Continue your Edit Session !!!**

Shortcuts for IPT Commands

Menu Utilities Compilers Options Status Help

z/OS Primary Option Menu

Option ==> ipt?

0	Settings	Terminal and user parameters	User ID . . . : DNET187
1	View	Display source data or listings	Time. . . . : 15:09
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 defaults

Shortcut Commands *New in V5.9*

-IPT-

COMMAND SHORTCUTS

Row 1 to 17 of 47

-IPT-

COMMAND SHORTCUTS

Row 18 to 34 of 47

COMMAND ===>
Commands: SORT

SCROLL ===> PAGE

COMMAND ===>
Commands: SORT

SCROLL ===> PAGE

SHORTCUT COMMAND DESCRIPTION

SHORTCUT	COMMAND	DESCRIPTION
IPT	IPHELP	IPT HELP
ISET		IPT SET OPTIONS
IMAIN		IPT MAINTENANCE REPORT
IVER	IVERSION	IPT VERSION REPORT
BR	BROWSE	'<DSNpat>(<MEMpat>)' - BROWSE
ED	EDIT	'<DSNpat>(<MEMpat>)' - EDIT
VI	VIEW	'<DSNpat>(<MEMpat>)' - VIEW
BF	BFILE	'<DSNpat>(<MEMpat>)' - BROWSE VSAM
EF	EFILE	'<DSNpat>(<MEMpat>)' - EDIT VSAM
VF	VFILE	'<DSNpat>(<MEMpat>)' - VIEW VSAM
O*		SHOW ALL OBJECT-LISTS
O/		POPULATE NEW OBJECT-LIST
OH	OHIST	HISTORY LIST OF ACCESSED DATASETS
OLIS	OLIST	<parm1>,<parm2> - OBJECT-LIST
OL		<parm1>,<parm2> - OBJECT-LIST
OL*		SHOW ALL OBJECT-LISTS
OL/		POPULATE NEW OBJECT-LIST

SHORTCUT COMMAND DESCRIPTION

OLDD	OLDDNAME	<DDname> - LIST ALLOCATED
OLB	OLBASE	<DSNpat> - LISTCAT BASE OF GENERATION
OLC	OLCAT	<DSNpat> - LISTCAT MULTIPLE PATTERNS
OLE		<DSNpat> - LISTCAT PDSE LIBRARIES
OLPDSE		<DSNpat> - LISTCAT PDSE LIBRARIES
OLG	OLGDG	<DSNpat> - LISTCAT GDG DATASETS
OLH	OLHIST	HISTORY LIST OF ACCESSED DATASETS
OLI	OLINFO	<DSNpat>,<VOLpat> - LISTCAT + INFO
OLM	OLMIG	<DSNpat> - LISTCAT MIGRATED
OLP	OLPAGE	<DSNpat> - LISTCAT PAGE-SPACE DATASETS
OLS	OLSYS	<SYSstyp> - LIST SYSTEM DATASETS
OLT	OLTAPE	<DSNpat> - LISTCAT TAPE DATASETS
OLV	OLVTOC	<VOLpat>,<DSNpat> - LISTVTOC DATASETS
OLVS	OLVSAM	<DSNpat> - LISTCAT VSAM CLUSTERS
EX?	EX??????	DISPLAY TSO PERMANENT COMMANDS
EX=		DISPLAY TSO MOST RECENT COMMAND
EX1		EXECUTE TSO PERMANENT COMMAND #1

Shortcut Example (OLH) History List

```

  Display Filter View Print Options Help
-----
HGX7730 ----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ==> olh                                SCROLL ==> PAGE

DA   Active users          INIT  Initiators
I    Input queue           PR    Printers
O    Output queue          PUN   Punches
H    Held output queue     RDR   Readers
ST   Status of jobs        LINE  Lines
                                         NODE  Nodes
LOG  System log            SO    Spool offload
SR   System requests       SP    Spool volumes
MAS  Members in the MAS
JC   Job classes
SE   Scheduling environments
RES  WLM resources

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```

From any ISPF Panel obtain a list of
Last 100 datasets accessed.

Save Keystrokes and Time on repeat functions !!!!!



History List

```
-IPT- OLIST (E) ----- DATA SET HISTORY ----- "A" will display assist
Command    ===> █                                SCROLL ===> PAGE
                                                *TEMPORARY LIST*
```

Command	Member	Numbr	Data Set Names / Objects	Volume
		1	'DNET187.ADLAB.JCL'	
	\$INDEX	2	'DNET187.ADLAB.INSTALL'	
		3	'DNET603.ADLAB.SYSDEBUG'	
		4	'DNET187.ADLAB.SYSDEBUG'	
		5	'DNET187.ADLAB.LISTING'	
	FMCTLCD	6	'DNET187.ADLAB.FILES'	
		7	'DNET187.ADLAB.COPYLIB'	
	C*	8	'DNET187.ADLAB.COPYLIB'	
		9	'DNET187.ADLAB.COPYLIB1'	
		10	'DNET187.ADLAB.COPYLIB2'	
	EQ*	11	'DNET187.ISPF.ISPPROF'	
	DNET*	12	'DB2.V7R1M0.SDSNLOAD'	
		13	'DB2.V7R1M0.SDSNLOAD'	
	FMCOPY	14	'DNET187.ADLAB.FILES'	
		15	'DNET187.ADLAB.DTCMD'	
	CUST1	16	'DNET187.ADLAB.COPYLIB'	
		17	'DNET047.CODE.DTSF'	
		18	'DNET187.OSVS.LISTING'	

Last 100 Datasets in Olist Format
positioned
At the Referenced Member

Select # to Edit



Summary ISPF Productivity !!!!!

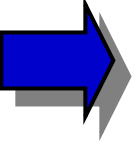
- **Enhanced action bar, pop-up windows, new functions, and point-and-shoot.**
- **Integrates seamlessly with ISPF**
- **Shortcuts and additional commands reduce the need to navigate to utility panels and invoke them separately**
- **Enhances TSO/ISPF Functions**
- **Access frequently used datasets using OLIST to reduce panel navigation and keystrokes**
- **Improves overall performance of ISPF: reduces CPU usage, EXCP counts, and improves response time. Browsing, editing, copying, displaying lists, and finding Data is significantly faster**



The screenshot shows the z/OS Primary Option Menu interface. At the top, there is a menu bar with options: Menu, Utilities, Compilers, Options, Status, and Help. Below this, the title is "z/OS Primary Option Menu". The main area displays a list of options, each with a number and a description. To the right of the list, there are system parameters. At the bottom, there is a prompt "Enter X to Terminate using log/list defaults" and a date "04/014".

Option	Description	Parameter	Value
0	Settings	Terminal and user parameters	User ID : SY5029
1	View	Display source data or listings	Time : 15:01
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	Rpl ID : ISP
6	Command	Enter TSO or Workstation commands	TSO logon : SP1FFY
7	Dialog Test	Perform dialog testing	TSO prefix : SY5029
P	IBM Products	IBM program products	System ID : DEMOMVS
10	SCLM	SCLM 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	

Agenda:

- *Session Introduction*
- *IBM ISPF Productivity Tool (IPT) Overview*
- *IBM IPT Functional “Walkthrough”*
- ▪ *WDz Overview*
- *WDz Functional “Walkthrough”*
- *Questions/Roundtable Discussion*

What is Websphere Developer for System z:

- ▶ ***“WebSphere® Developer for System z (WDz) speeds efficiency of traditional mainframe, Web development and integrated mixed workload”***
 - ***WDz is an integrated collection of workstation tools that support both desktop and z/OS application development and maintenance***
 - ***Perform workstation and z/OS application development and maintenance***
 - ***For the z/OS platform, edit, submit, debug, and maintain test and production data and applications***



IBM WebSphere Developer for System z

Enterprise Service Tools Web Services and XML

- SOA access to CICS V3.1 and IMS V9 COBOL applications
- Bottom-up/Top-down or meet-in-the-middle COBOL to XML mapping support
- Integrated COBOL XML converters, XML schemas, and WSDL generation

DB2 Stored Procedure for COBOL and PL/I

- Create DB2 stored procedures on z/OS in either COBOL or PL/I
- Build and catalog support for the DB2 stored procedure
- Debug z/OS based stored procedures from workstation

Web/J2ee Development

- Create Web Pages / JSF / Struts
- J2ee/Java Development
- JCA Connectors
- Distributed debugger
- Web Services and Test environment



z/OS Application Development

- Connect to z/OS systems
- Work with z/OS resources like COBOL, PL/1 , C, C++, JCL, etc.
- Interact with the Job Entry Subsystem (JES) to submit jobs, monitor jobs, and review job output
- Perform dataset management actions like allocating datasets and migrating datasets
- Perform typical edit, compile, and debug tasks on remote z/OS resources from the workstation

CICS BMS/ IMS MFS Map Support

- Visually create and modify BMS Map sets or IMS/MFS
- Generates JCL
- Work with local or remote maps

Rapid Application Development

- Ability to generate WSDL and CICS Cobol program to access DB2
- CRUD from UML and Database operations
- Can be added to SFM flow

CICS 3 Service Flow Support

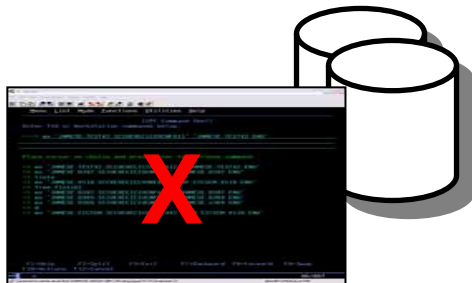
- Implements SOA and Web Services
- Service Flow Modeler is a tool to build service flows out of your existing Commarea and Terminal based CICS applications.

z/OS Development/Support Model:

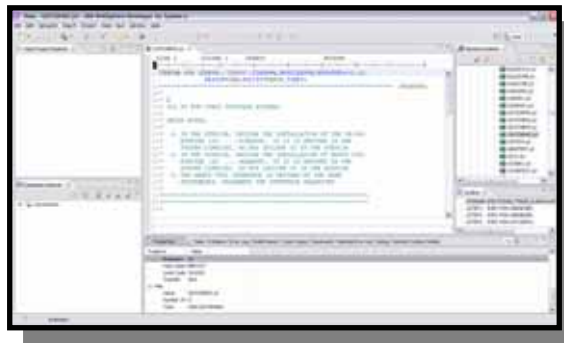
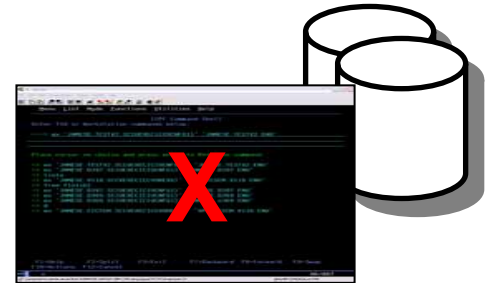
z/OS System #1



z/OS System #2



z/OS System #3



- **Data Management**
- **Job Control/Monitor**
- **Application Code Debug**



z/OS Projects - DNET603.CODE.SYSDEBUG(ATCDEMO) - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- DemoMVS Projects
 - DemoMVS Subprojects [DemoMVS]
 - DNET603.WDZ.COBOL(ATCDEMO)
 - DNET603.WDZ.LOAD(ATCDEMO).e
 - DNET603.WDZ.OBJ(ATCDEMO).ob
 - DNET603.WDZ.SYSDEBUG(ATCDEM)
 - SVLabf2 Projects
 - SVLabf6 Projects

Properties Outline

Property	Value
Connection sta	Some subsystems connected
Default User ID	tss08
Description	SVL Lab Support Second L...
Host name	9.30.128.20
Name	SVLabf2
Number of child 6	
Parent profile	IBM-DF38B6CE067
Remote system	z/OS
Type	Connection

Remote Systems Team

- New Connection
- Local
- DemoMVS
 - SVLabf2
 - FA SubSystem
 - JES
 - MVS Files
 - All Magee Data (TSS08.*)
 - ADTOOLS
 - FM Data
 - TSS08.APA.BACKDATA
 - TSS08.APA.DATA
 - TSS08.APATEST.DATA
 - TSS08.WDZ.DATA
 - TSS08.APA.TESTDATA
 - TSS08.CODE.DATA
 - TSS08.CODE.VSAMDATA
 - TSS08.WDZ.VSAMDATA
 - WDz Training
 - TSO Commands
 - USS Files
 - USS Shells

Line 206 Column 1 Insert Browse

```

204 ACCEPT MY-DATE FROM DATE YYYYMMDD.
205 ACCEPT CURRENT-DATE FROM DATE.
206 ACCEPT CURRENT-TIME FROM TIME.
207
208 *****
209 * OUTPUT THE SYSTM DATE AND TIME
210 *****
211 DISPLAY 'ATCDEMO RUNTIME DATE = ' C
212 CURRENT-DAY ':' C
213
214 DISPLAY 'ATCDEMO RUNTIME TIME = ' C
215 CURRENT-MINUTE ':'
216
217 *****
218 * OPEN THE INPUT FILE
219 *****
220 MOVE 0000 TO RETURN-CODE.
221 OPEN INPUT QSAMIN.
222 DISPLAY 'FILE-STATUS ON QSAMIN OPEN
223
224 *****
    
```

Remote Error List z/OS File System Mapping Remote System Details

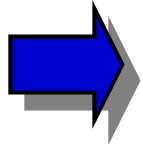
Filter matched 2 of 2 messages

ID	Message	S...	Line	Location	Host Name	Date
IGYSC0185	IGYSC0185-I Messages were issued during li...	0	1	DemoMSV Projects/D...	DemoMVS	Aug 13, 2007 6:28:5...
IGYLI0090	IGYLI0090-W 1 sequence errors were found ...	1	1	DemoMSV Projects/D...	DemoMVS	Aug 13, 2007 6:28:5...

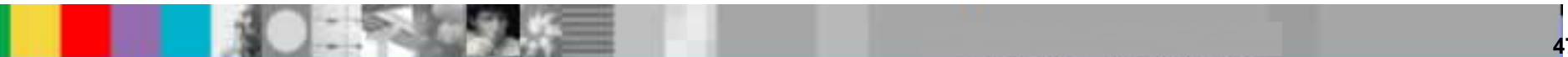
Connection: SVLabf2 - Host name: 9.30.128.20 - Description: SVL Lab Support Second Level System

Agenda:

- *Session Introduction*
- *IBM ISPF Productivity Tool (IPT) Overview*
- *IBM IPT Functional “Walkthrough”*
- *WDz Overview*
- *WDz Functional “Walkthrough”*
- *Questions/Roundtable Discussion*



Connecting WDz to the z/OS LPAR



z/OS Projects - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Remote Systems Team

- New Connection
- Local
- SVLabf2
- SVLMVS1
- SVLabf6
- TestDrive
- demoMVS

Properties Outline

Property	Value
Connection sta	No subsystems connected
Default User ID	dnet603
Description	DemoMVS Dallas Demo Sy...
Host name	DEMOMVS.DEMOPKG.IBM....
Name	DemoMVS
Number of child	0
Parent profile	IBM-DF38B6CE067
Remote system	z/OS
Type	Connection

Remote Error List z/OS File System Mapping Remote System D

Connect all subsystems

start

Address [] Go

96% 3:56 PM Tuesday 9/25/2007

Fw: Update... 3 Interne... 5 Microso... 8 Lotus S... 2 PCSWS... z/OS Projec...

- New
- Go Into
- Go To
- Open in New Window
- Show in Table
- Refresh
- Rename...
- Copy
- Move...
- Delete...
- Move Up
- Move Down
- Connect
- Clear Passwords
- Work Offline
- Host Connection Emulator Support
- Properties

The screenshot shows the IBM WebSphere Developer for System z interface. A central dialog box titled "Enter Password" is open, prompting for credentials to connect to a remote system. The dialog contains the following information:

- System type: z/OS
- Host name: DEMOMVS.DEMOPKG.IBM.COM
- User ID: dnet603
- Password: [masked with asterisks]
- Save user ID:
- Save password:

Buttons for "OK" and "Cancel" are at the bottom of the dialog. In the background, the "Remote Systems" window shows a tree view of connections including "Local", "SVLabf2", "SVLMVS1", "SVLabf6", "TestDrive", and "DemoMVS". The "Properties" window at the bottom left displays details for the selected system:

Property	Value
Connection sta	No subsystems connected
Default User ID	dnet603
Description	DemoMVS Dallas Demo Sy...
Host name	DEMOMVS.DEMOPKG.IBM....
Name	DemoMVS
Number of child	0
Parent profile	IBM-DF38B6CE067
Remote system	z/OS
Type	Connection

The Windows taskbar at the bottom shows the system time as 3:57 PM on Tuesday, 9/25/2007, and a battery level of 96%.

z/OS Projects - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Remote Systems Team

- New Connection
- Local
- SVLabf2
- SVLMVS1
- SVLabf6
- TestDrive
- DemoMVS
- FA SubSystem
- JES
- MVS Files
- TSO Commands
- USS Files
- USS Shells

Properties Outline

Property	Value
Connection sta	Some subsystems connected
Default User ID	dnet603
Description	DemoMVS Dallas Demo Sy...
Host name	DEMOMVS.DEMOPKG.IBM....
Name	DemoMVS
Number of child	6
Parent profile	IBM-DF38B6CE067
Remote system	z/OS
Type	Connection

Remote Error List z/OS File System Mapping Remote System Details Debug

Connection: DemoMVS - Host name: DEMOMVS.DEMOPKG.IBM.COM - Description: DemoMVS Dallas Demo System

start

Address [] Go

96% 3:59 PM Tuesday 9/25/2007

Fw: Update... 3 Interne... 5 Microso... 9 Lotus S... 2 PCSWS... z/OS Projec...

WDz z/OS File and JES Queue Management



z/OS Projects - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Remote Systems Team

- New Connection
- Local
 - SVLabf2
 - SVLMVS1
 - SVLabf6
 - TestDrive
 - DemoMVS
 - FA SubSystem
 - JES
 - My Jobs
 - DNET603W:JOB02851
 - JES2:JESMSGGLG
 - JES2:JESJCL
 - JES2:JESYSMSG
 - STEP 1:SYSPRINT
 - STEP 2:SYSPRINT
 - STEP 3:SYSOUT
 - DNET603 :TSU02781
 - MVS Files
 - TSO Commands
 - USS Files

Properties Outline

Property	Value
Connected	Yes
Name	JES
Number of child 1	
Port	0
Type	Subsystem
User ID	DNET603
Version	

Remote Error List z/OS File System Mapping Remote System Details Debug

Subsystem: JES

start

Address Go

96%

4:03 PM Tuesday 9/25/2007

Fw: Update... 3 Interne... 5 Microso... 9 Lotus S... 2 PCSWS... z/OS Projec...

z/OS Projects - DNET603.DNET603W.JOB02851.D0000004.JESYSMSG - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG

```

ICH70001I DNET603  LAST ACCESS AT 14:56:27 ON TUESDAY, S
IEF236I ALLOC. FOR DNET603W STEP1
IGD103I SMS ALLOCATED TO DDNAME SYSUT1
IGD103I SMS ALLOCATED TO DDNAME SYSUT2
IEF237I DMY  ALLOCATED TO SYSIN
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSDUMP
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF142I DNET603W STEP1 - STEP WAS EXECUTED - COND CODE 0
IGD104I DNET603.CODE.FILES          RET
IGD104I DNET603.CODE.FILES          RET
IEF285I  DNET603.DNET603W.JOB02851.D0000101.?  S
IEF285I  DNET603.DNET603W.JOB02851.D0000102.?  S
IEF285I  DNET603.DNET603W.JOB02851.D0000103.?  S
IEF285I  DNET603.DNET603W.JOB02851.D0000104.?  S
IEF373I STEP/STEP1  /START 2007268.1500
IEF374I STEP/STEP1  /STOP 2007268.1500 CPU    0MIN 00.
IEF236I ALLOC. FOR DNET603W STEP2
IGD103I SMS ALLOCATED TO DDNAME SYSUT1
IGD101I SMS ALLOCATED TO DDNAME (SYSUT2 )
    
```

Remote Systems Team

- New Connection
- Local
 - SVLabf2
 - SVMVS1
 - SVLabf6
 - TestDrive
 - DemoMVS
- FA SubSystem
 - JES
 - My Jobs
 - DNET603W:JOB02851
 - JES2:JESMSGLG
 - JES2:JESJCL
 - JES2:JESYSMSG
 - STEP1:SYSPRINT
 - STEP2:SYSPRINT
 - STEP3:SYSOUT
 - DNET603 :TSU02781
- MVS Files
- TSO Commands
- USS Files

Properties Outline

Property	Value
Dataset Name	DNET603.DNET603W.JOB...
Date Stamp	2007/09/25
DD Name	JESYSMSG
Lines in File	64
Name	JES2:JESYSMSG
Number of child	0
Step Name	JES2
Time Stamp	20:00:43
Type	JES Dataset

Remote Error List z/OS File System Mapping Remote System Details Debug

Read-Only Insert 1:1

start

Fw: Update... 3 Interne... 5 Microso... 9 Lotus S... 2 PCSWS... z/OS Projec...

Address Go 96% 4:04 PM Tuesday 9/25/2007

z/OS Projects - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Properties Outline

Property	Value
Info	
Created	Wed May 01 00:00:00 ED...
Last Modified	Fri Sep 14 15:29:09 EDT 2...
Size	6148
Mapping	
Extension	jd
Host Code	IBM-037
Local Code	Cp1252
Transfer	text
Misc	
Name	GATCDEMO.jd
Number of	0
Type	Data Set Member

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG

GATCDEMO.jd

```

Line 64      Column 35      Insert
//-----1-----2-----3-----4-----5-----6
//*
//SYSIN      DD DUMMY
//SYSOUT     DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//SYSDUMP   DD SYSOUT=*
//SYSUDUMP  DD SYSOUT=*
//*
//*****
//**
//** STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
//**
//*****
//STEP3      EXEC PGM=ATCDEMO,
//           PARM='/TEST(,,TCPIP&9.51.88.6p:)'
//STEPLIB   DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
//          DD DSN=&DTPRF..SEQAMOD,DISP=SHR
//SYSOUT    DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//SYSDUMP   DD SYSOUT=*
//SYSUDUMP  DD SYSOUT=*
//CMD       DD DSN=&SYSUID..WDZ.FILES(INSPIN),DISP=SHR
//INSPLOG   DD DSN=&SYSUID..WDZ.FILES(INSPLOG),DISP=SHR
//INPUT1    DD DSN=&SYSUID..WDZ.DATA(TESTDATA),DISP=SHR
    
```

Remote Systems Team

- WDz Training
 - DNET603.WDZ.ASEMB
 - DNET603.WDZ.BACKJC
 - DNET603.WDZ.C
 - DNET603.WDZ.CDBG
 - DNET603.WDZ.CLST
 - DNET603.WDZ.COBOLE
 - DNET603.WDZ.COBOLE
 - DNET603.WDZ.DATA
 - DNET603.WDZ.EQUALAN
 - DNET603.WDZ.FILES
 - DNET603.WDZ.INCLUDE
 - DNET603.WDZ.JCL
 - BASM01.jd
 - BATCDEMO.jd
 - BCOBOSVS.jd
 - BCOBVSAM.jd
 - BCPROG.jd
 - BDTDEMO.jd
 - BPTM01E.jd
 - BVSAM.jd
 - GASM01.jd
 - GATCDEMO.jd
 - GCOBOSVS.jd
 - GCOSVSAM.jd

Remote Error List z/OS File System Mapping Remote System Details Debug

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

z/OS LPEX Editor is active

start

Address Go

96%

4:06 PM Tuesday 9/25/2007

Fw: Update... 3 Internet... 5 Microso... 9 Lotus S... 2 PCSWS... z/OS Projec...

z/OS Projects - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jcl

```

Line 66      Column 1      Insert      2 changes
|-----1-----2-----3-----4-----5-----6
//SYSIN      DD DUMMY
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
// *
//*****
// *
// * STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
// *
//*****
//STEP3      EXEC PGM=ATCDEMO,
//           PARM='/TEST(,,TCP&9.51.88.60:)'
//STEPLIB    DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
Incorrect disposition status.

//           DD DSN=&DTPRF..SEQAMOD,DISP=SHR
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
//CMD        DD DSN=&SYSUID..WDZ.FILES(INSPIN),DISP=SHR
//INSPLOG    DD DSN=&SYSUID..WDZ.FILES(INSPLOG),DISP=SHR
                    
```

Remote Systems Team

- WDz Training
 - DNET603.WDZ.ASSEMB
 - DNET603.WDZ.BACKJCL
 - DNET603.WDZ.C
 - DNET603.WDZ.CDBG
 - DNET603.WDZ.CLST
 - DNET603.WDZ.COBOL
 - DNET603.WDZ.COBOL.S
 - DNET603.WDZ.DATA
 - DNET603.WDZ.EQUALAN
 - DNET603.WDZ.FILES
 - DNET603.WDZ.INCLUD
 - DNET603.WDZ.JCL
 - BASM01.jcl
 - BATCDEMO.jcl
 - BCOBVSVS.jcl
 - BCOBVSAM.jcl
 - BCPROG.jcl
 - BDTDEMO.jcl
 - BPTM01E.jcl
 - BVSAM.jcl
 - GASM01.jcl
 - GATCDEMO.jcl
 - GCOBVSVS.jcl
 - GCOBVSAM.jcl

Properties Outline

Property	Value
Info	
Created	Wed May 01 00:00:00 EDT...
Last Modified	Fri Sep 14 15:29:09 EDT 2...
Size	6148
Mapping	
Extension	jcl
Host Code	IBM-037
Local Code	Cp1252
Transfer	text
Misc	
Name	GATCDEMO.jcl
Number of	0
Type	Data Set Member

Remote Error List z/OS File System Mapping Remote System Details Debug

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

z/OS LPEX Editor is active Save Needed

z/OS Projects - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Properties Outline

Property	Value
Info	
Created	Wed Sep 06 00:00:00 EDT...
Last Modified	Sun Aug 12 01:17:52 EDT...
Size	34684
Mapping	
Extension	jcl
Host Code	IBM-037
Local Code	Cp1252
Transfer	text
Misc	
Name	BCPROG.jcl
Number of	0
Type	Data Set Member

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jcl

```

Line 66      Column 1      Insert      6 changes
//-----1-----2-----3-----4-----5-----
//SYSIN      DD DUMMY
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
// *
//*****
// *
// * STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
// *
//*****
//STEP3      EXEC PGM=ATCDEMO,
//           PARM=' /TEST (,,TCP&9.51.88.60:)'
//STEPLIB    DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
//           DD DSN=&DTPRF..SEQAMOD,DISP=SHR
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
//CMD        DD DSN=&SYSUID..WDZ.FILES(INSPIN),DISP=SHR
//INSPLOG    DD DSN=&SYSUID..WDZ.FILES(INSPLOG),DISP=SHR
//INPUT1     DD DSN=&SYSUID..WDZ.DATA(TESTDATA),DISP=SHR
// *
    
```

Go To
Open
Open With
Refresh
Rename...
Copy
Delete...
Search...
Browse
Add to Subproject...
Host Connection Emulator Support
Compare With
Replace With
Submit
Properties

z/OS File System Mapping

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

start

Address Go

96%

4:10 PM
Tuesday
9/25/2007

z/OS Projects - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jcl

```

Line 66      Column 1      Insert      6 changes
//-----1-----2-----3-----4-----5-----6
//SYSIN      DD DUMMY
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
//
//*****
//
//STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
//
//STEP3      EXEC PGM=ATCDEMO,
//           PARM=' /TEST (,,TCP/IP&9.51.88.60:)'
//STEPLIB    DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
//           DD DSN=&DTPRFX..SEQAMOD,DISP=SHR
//SYSOUT     DD SYSOUT=*
//SYSPRINT   DD SYSOUT=*
//SYSDUMP    DD SYSOUT=*
//SYSUDUMP   DD SYSOUT=*
//CMD        DD DSN=&SYSUID..WDZ.FILES(INSPIN),DISP=SHR
//INSPLOG     DD DSN=&SYSUID..WDZ.FILES(INSPLOG),DISP=SHR
//INPUT1     DD DSN=&SYSUID..WDZ.DATA(TESTDATA),DISP=SHR
//
//*****
    
```

Remote Systems Team

- New Connection
- Local
- SVLabf2
 - FA SubSystem
 - JES
 - MVS Files
 - All Magee Data (TSS08.*)
 - TSS08.ADLAB.COPYLIB
 - TSS08.ADLAB.DTSF
 - TSS08.ADLAB.EQALANC
 - TSS08.ADLAB.FILES
 - TSS08.ADLAB.JCL
 - TSS08.ADLAB.LISTING
 - TSS08.ADLAB.LOAD
 - TSS08.ADLAB.LOAD2
 - TSS08.ADLAB.SOURCE
 - TSS08.ADLAB.SYSDEBU
 - TSS08.ADLAB.TEMPLAT
 - TSS08.ADLAB.VIEW
 - TSS08.APA.BACKDATA
 - TSS08.APA.COBOLS2
 - TSS08.APA.COBOLST
 - TSS08.APA.DATA
 - TSS08.APA.DATA2
 - TSS08.APA.FILES

Properties Outline

Property	Value
Info	
Created	
Last Modified	
Size	
Mapping	
Extension	.jcl
Host Code	IBM-037
Local Code	Cp1252
Transfer	text
Misc	
Name	TSS08.ADLAB.JCL
Number of	58
Type	Partitioned Data Set

Remote Error List z/OS File System Mapping Remote System Details

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page
**COBOL	cbl	text	IBM-037 (inhe)
**HTML	htm	text	IBM-037 (inhe)

Go To

- Show in Table
- Refresh
- Rename...
- Copy
- Paste
- Delete...
- Search...
- Remote Index Search
- Define Alias...
- Allocate Like...
- Create PDS Member...
- Add to Subproject...
- Host Connection Emulator Support
- Compress(B)
- Compress with Backup...
- Migrate
- Properties(J)

start

Address

96%

4:11 PM Tuesday 9/25/2007

z/OS Projects - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd

```

Line 66      Column 1      Insert      6 changes
//--+-+-----1-----2-----3-----4-----+-----5-----6
//SYSIN      DD DUMMY
//SYSOUT     DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//SYSDUMP   DD SYSOUT=*
//SYSUDUMP  DD SYSOUT=*
//
//*****
//
//* STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
//
//*****
//STEP3     EXEC PGM=ATCDEMO,
//          PARM='/TEST(,,,TCPIP&9.51.88.60:)'
//STEPLIB   DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
//          DD DSN=&DIPRFX..SEQAMOD,DISP=SHR
//SYSOUT    DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//SYSDUMP   DD SYSOUT=*
//SYSUDUMP  DD SYSOUT=*
//CMD       DD DSN=&SYSUID..WDZ.FILES(INSPIN),DISP=SHR
//INSPLOG   DD DSN=&SYSUID..WDZ.FILES(INSPLOG),DISP=SHR
//INPUT1    DD DSN=&SYSUID..WDZ.DATA(TESTDATA),DISP=SHR
//

```

Remote Systems Team

- TSS08.ADLAB.JCL
 - \$JOB CARD.jd
 - BADSTAT.jd
 - BASAM1.jd
 - BASAM1DR.jd
 - BATCDEMO.jd
 - BATM01.jd
 - BC01.jd
 - BCOBTIMS.jd
 - BCOBVSAM.jd
 - BCPROG.jd
 - BDTDEMO.jd
 - BLABONE.jd
 - BLABTWO.jd
 - BPTM01.jd
 - BSAM1.jd
 - BSAM2.jd
 - BTDMOSVS.jd
 - BTDMZOS.jd
 - CEEUOPT.jd
 - CEEUOPTS.jd
 - COBILINK.jd
 - DTSVAVSET.jd
 - FMBATDSC.jd
 - FMBATDSC1.jd

Properties Outline

Property	Value
Info	
Created	Tue Sep 25 00:00:00 EDT ...
Last Modified	Tue Sep 25 13:12:12 EDT ...
Size	34684
Mapping	
Extension	jcl
Host Code	IBM-037
Local Code	Cp1252
Transfer	text
Misc	
Name	BCPROG.jcl
Number of	0
Type	Data Set Member

Remote Error List z/OS File System Mapping Remote System Details Debug

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

Data Set Member: BCPROG.jd

start

Address Go

96%

4:13 PM Tuesday 9/25/2007

Fw: Update... 3 Internet... 5 Microso... 9 Lotus S... 2 PCSWS... z/OS Projec...

The screenshot displays the IBM WebSphere Developer for System z interface. The main window shows a JCL file named *GATCDEMO.jd with 6 changes. A context menu is open over the code, listing options such as 'New Window', 'New Editor', 'Open Perspective', 'Show View', 'Customize Perspective...', 'Save Perspective As...', 'Reset Perspective', 'Close Perspective', 'Close All Perspectives', 'Navigation', 'Working Sets', 'Web Browser', and 'Preferences...'. The JCL code includes STEPLIB, SYSOUT, SYSPRINT, SYSDUMP, SYSUDUMP, CMD, INSPLOG, and INPUT1 statements. The 'Remote Systems' panel on the right shows a tree view of files under TSS08.ADLAB.JCL, with BCPROG.jd selected. The 'Properties' panel on the left shows details for BCPROG.jd, including its creation and modification dates, size, and mapping information. The 'Remote System Details' panel at the bottom shows the system 'SVLabf2' and a table of file mappings.

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

The screenshot displays the IBM WebSphere Developer for System z IDE interface. The main editor window shows a JCL job definition for *GATCDEMO.jcl. A dialog box titled "Workstation IP" is overlaid on the editor, displaying the current IP address as 9.51.88.60. The JCL code includes comments and a STEP3 section with EXEC and STEPLIB statements.

```

Line 66      Column 1      Insert      6 changes
//-----1-----2-----3-----4-----+-----8
//SYSDUMP DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
/**
/**
/** *****
/** STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
/**
/** *****
//STEP3 EXEC PGM=ATCDEMO,
// PARM='/TEST(,,TCPIP&9.51.88.60:)'
//STEPLIB DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
// DD DSN=&DTPREFX..SEQAMOD,DISP=SHR
    
```

The IDE interface includes a menu bar (File, Edit, Navigate, Search, Project, Data, Run, Window, Help), a toolbar, and several panels: Servers, Variables, Breakpoints, Console, Tasks, Memory, and Renderings. The Windows taskbar at the bottom shows the Start button, system tray icons, and the system clock indicating 4:17 PM on Tuesday, 9/25/2007.

Debug - GATCDEMO.jcl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Debug Servers Variables Breakpoints z/OS Projects

```

Line 59      Column 71      Insert      6 changes
//-----1-----2-----3-----4-----5-----6-----
//SYSDUMP DD SYSOUT=**
//SYSUDUMP DD SYSOUT=**
/**
*****
/**
/** STEP3: THIS STEP EXECUTE THE DEMO PROGRAM
/**
*****
//STEP3 EXEC PGM=ATCDEMO,
// PARM='/TEST(,,TCP/IP&9.51.88.60:)'
//STEPLIB DD DSN=&SYSUID..WDZ.LOAD,DISP=SHR
// DD DSN=&DTPREFX..SEQAMOD,DISP=SHR
    
```

Console Tasks Memory Renderings

Monitors

z/OS LPEX Editor is active

start Fw: Update... 3 Internet... 5 Microsoft... 9 Lotus S...

96% 4:17 PM Tuesday 9/25/2007

Save
 Cut Ctrl+X
 Copy Ctrl+Insert
 Paste Ctrl+V
 Select
 Selected
 Deselect Alt+U
 Filter view
 Show all Ctrl+W
 Source
 View
 Run As
 Debug As
 Profile As
 Validate
 Analysis
 Team
 Compare With
 Replace With
 Link Utilities
 Add Breakpoint
 Open Member
 Submit
 Start Flagging Changed Lines

Debug - DNET603.WDZ.SYSDEBUG(ATCDEMO) - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Debug Servers

ATCDEMO [Remote Compiled Application]
 Platform: OS/390(R) Connection: 9.39.64.151:2572
 Thread:1 (Runnable)
 ATCDEMO : 01
 Process: 534831480 Program: ATCDEMO

Variables Breakpoints Registers Monitors Modules

Name	Value
no local variables are available for the selection	

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd DNET603.WDZ.SYSDEBUG(ATCDEMO)

Line 1	Column 1	Insert	Browse
1			IDENTIFICATION DIVISION.
2			*****
3			* PROGRAM NAME: ATCDEMO Version TDM *
4			* *
5			* OBJECTIVES OF TESTCASE: *
6			* *
7			* DEMO INTERACTIVE DEBUG TOOL WITH A MULTIPLE *
8			* COMPILE UNIT TEST CASE *
9			* *
10			*****
11			PROGRAM-ID. ATCDEMO.
12			AUTHOR. TIM MAGEE.
13			DATE-WRITTEN. 03/22/02.
14			DATE-COMPILED. CURRENT-DATE.
15			INSTALLATION. IBM LEXINGTON.

Console Tasks Memory Debug Console

Monitors Renderings

start

Address Go

96%

4:19 PM Tuesday 9/25/2007

Debug - DNET603.WDZ.SYSDEBUG(ATCDEMO) - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Debug Servers

ATCDEMO [Remote Compiled Application]
 Platform: OS/390(R) Connection: 9.39.64.151:2572
 Thread: 1 (Runnable)
 ATCDEMO : 01
 Process: 534831480 Program: ATCDEMO

Variables Breakpoints Registers Monitors Modules

Name	Value
no local variables are available for the selection	

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd DNET603.WDZ.SYSDEBUG(ATCDEMO)

Line	Column	Insert	Browse
1			IDENTIFICATION DIVISION
2			*****
3			* PROGRAM NAME: ATCDEMO
4			* *****
5			* OBJECTIVES OF TESTCASES
6			* *****
7			* DEMO INTERACTIVE
8			* COMPILE UNIT TESTCASES
9			* *****
10			* PROGRAM-ID. ATCDEMO.
11			* AUTHOR. TIM MAGEE.
12			* DATE-WRITTEN. 03/22/02.
13			* DATE-COMPILED. CURRENT-DATE.
14			* INSTALLATION. IBM LEXINGTON.
15			

Find Text

Search string:
 RECORD-DAY!
 Case sensitive

OK Cancel

Console Tasks Memory Debug Console

Monitors Renderings

start | Address | Go | 96% | 4:20 PM Tuesday 9/25/2007

Debug - DNET603.WDZ.SYSDEBUG(ATCDEMO) - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Debug Servers

ATCDEMO [Remote Compiled Application]
 Platform: OS/390(R) Connection: 9.39.64.151:2572
 Thread: 1 (Runnable)
 ATCDEMO : 01
 Process: 534831480 Program: ATCDEMO

Variables Breakpoints Registers Monitors Modules

Name	Value
no local variables are available for the sele	

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd DNET603.WDZ.SYSDEBUG(ATCDEMO)

Line 268 Column 51 Insert Browse

```

265
266 *****
267 * COMPARE THE SYSTEM DATE WITH THE INPUT RECORD DATE *
268 *****
269 IF CURRENT-DATE = RECORD-DATE
270     ADD 10 TO RECORD-DAY1
271 ELSE
272     ADD 5 TO RECORD-DAY1
273 END-IF.
274
275 *****
276 * COMPARE THE SYSTEM DATE IS LESS
277 *****
278 IF CURRENT-DATE LESS THAN REC
279     CALL 'ATCEM2'
```

Find Text... Ctrl+F
 Find Next Ctrl+K
 Find Function or Entry Point... Ctrl+F12
 Add Breakpoint
 Add Watch Breakpoint...
 Jump To Location
 Run To Location
 Monitor Expression
 Monitor Memory
 Edit Source Lookup...
 Change Text File...
 Switch View

Console Tasks Memory Debug Console

Monitors Renderings

start

Address Go 96% 4:21 PM Tuesday 9/25/2007

Fw: Update ... 3 Internet... 5 Microsof... 9 Lotus Sa... 2 PCSWS... Debug - DN...

Debug - DNET603.WDZ.SYSDEBUG(ATCDEMO) - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Debug Servers

ATCDEMO [Remote Compiled Application]
 Platform: OS/390(R) Connection: 9.39.64.151:2572
 Thread: 1 (Runnable)
 ATCDEMO : 01
 Process: 534831480 Program: ATCDEMO

Variables Breakpoints Registers Monitors Modules

Name	Value
INPUT-RECORD	'01Dennis Smith 1e2141426086=>1000<=.
MY-DATE	
CURRENT-DATE	
TEST-DATE	

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd DNET603.WDZ.SYSDEBUG(ATCDEMO)

```

Line 268      Column 45      Insert      Browse
-----1-----2-----3-----4-----5-----6-----7-----8-----9-----10-----11-----12-----
265
266          *****
267          * COMPARE THE SYSTEM DATE WITH THE INPUT RECORD DATE *
268          *****
269          IF CURRENT-DATE = RECORD-DATE1
270              ADD 10 TO RECORD-DAY1
271          ELSE
272              ADD 5 TO RECORD-DAY1
273          END-IF.
274
275          *****
276          * COMPARE THE SYSTEM DATE IS LESS THAN THE RECORD DATE *
277          *****
278          IF CURRENT-DATE LESS THAN RECORD-DATE1
279              CALL 'ATCDEM2'
    
```

Console Tasks Memory Debug Console

Monitors Renderings

start | Fw: Update ... | 3 Internet... | 5 Microsof... | 9 Lotus Sa... | 2 PCSWS... | Debug - DN... | 96% | 4:22 PM Tuesday 9/25/2007

WDz CICS Interactive 3270 Transaction Debug



z/OS Projects - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- DemoMSV Projects
- SVLabf2 Projects
- SVLabf6 Projects

Remote Systems

- New Connection
- z/OS...
- AIX...
- Local...
- Local
- SVLabf2
- SVLMVS1
- SVLabf6
- TestDrive
- oMVS
 - A SubSystem
 - IES
 - MVS Files
 - All Magee Data (DNET603...
 - DNET603.ABX.STORL
 - DNET603.ADLAB.CDE
 - DNET603.ADLAB.CLS
 - DNET603.ADLAB.COF
 - DNET603.ADLAB.DAT
 - DNET603.ADLAB.EQ/
 - DNET603.ADLAB.FILE

Properties Outline

An outline is not available.

Remote Error List z/OS File System Mapping Remote System De

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host C
**COBOL	cbl	text	IBM-03
**COBCOPY	cpy	text	IBM-03
**DATA	tdat	binary	IBM-03
**PLI	pli	text	IBM-03
**ASSEMBLE	asm	text	IBM-03
**OBJ	obj	binary	IBM-03

start

Address Go

95%

12:31 AM
Tuesday
8/14/2007

Web... Replic... Micro... Wdz... 1:57... 2 P... Wind... z/OS ...

z/OS Projects - DemoMVS.hce - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Editor Menu Run Window Help

z/OS Projects DemoMVS.hce

Current host connection profile is: /HostConnectProjectFiles/DemoMVS.hce

```

DDDDDDDD EEEEEEEE MMMM M MMMM OOOOOOOO
DD DD EE MM MM MM MM OO OO
DD DD EE MM M M MM OO OO MNNN EEEE TT
DD DD EEEEEEE MM MM MM OO OO MN MN EE EE TTTT
DD DD EE MM M MM OO OO MN MN EEEEE TT
DD DD EE MM MM OO OO MN MN EE TT
DDDDDDDD EEEEEEEE MM MM OOOOOOOO MN MN EEEE TT

```

WELCOME TO IBM
 DEMOMVS
 HELP DESK: 972-561-7700

YOUR IP ADDRESS : 9.48.39.65
 YOUR TELNET PORT: 01190

APPLICATIONS AVAILABLE

TSO	CICS	CICS	CICS
IMS	IMS	IMS	IMS
NETVIEW	MF	CICS	CICS

SELECTION --> -

PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1
 PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2

Host Properties Host Connection

Remote Error List z/OS File System Mapping Remote System Details

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**COBCOPY	cpy	text	IBM-037 (inhe...	Cp1252 (inheri...
**DATA	tdat	binary	IBM-037 (inhe...	Cp1252 (inheri...
**PLI	pli	text	IBM-037 (inhe...	Cp1252 (inheri...
**ASSEMBLE	asm	text	IBM-037 (inhe...	Cp1252 (inheri...
**OBJ	obi	binary	IBM-037 (inhe...	Cp1252 (inheri...

WDz IBM File Manger Integration and Access



z/OS Projects - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

z/OS Projects

- DemoMSV Projects
- SVLabf2 Projects
- SVLabf6 Projects

Remote Systems Team

- TSS08.WDZ.DATA
- TSS08.WDZ.EQALANGX
- TSS08.WDZ.FILES
- TSS08.WDZ.JCL
- TSS08.WDZ.JCLSETUP
- TSS08.WDZ.LOAD
- TSS08.WDZ.OBJ
- TSS08.WDZ.PLI
- TSS08.WDZ.PLIDBG
- TSS08.WDZ.PLILIST
- TSS08.WDZ.SYSDEBUG
- TSS08.WDZ.TEMPLATE
- TSS08.WDZ.XMIT
- TSS08.WDZ.VSAMDATA

Go To

- Refresh
- Rename...
- Delete...
- Host Connection Emulator Support
- Properties

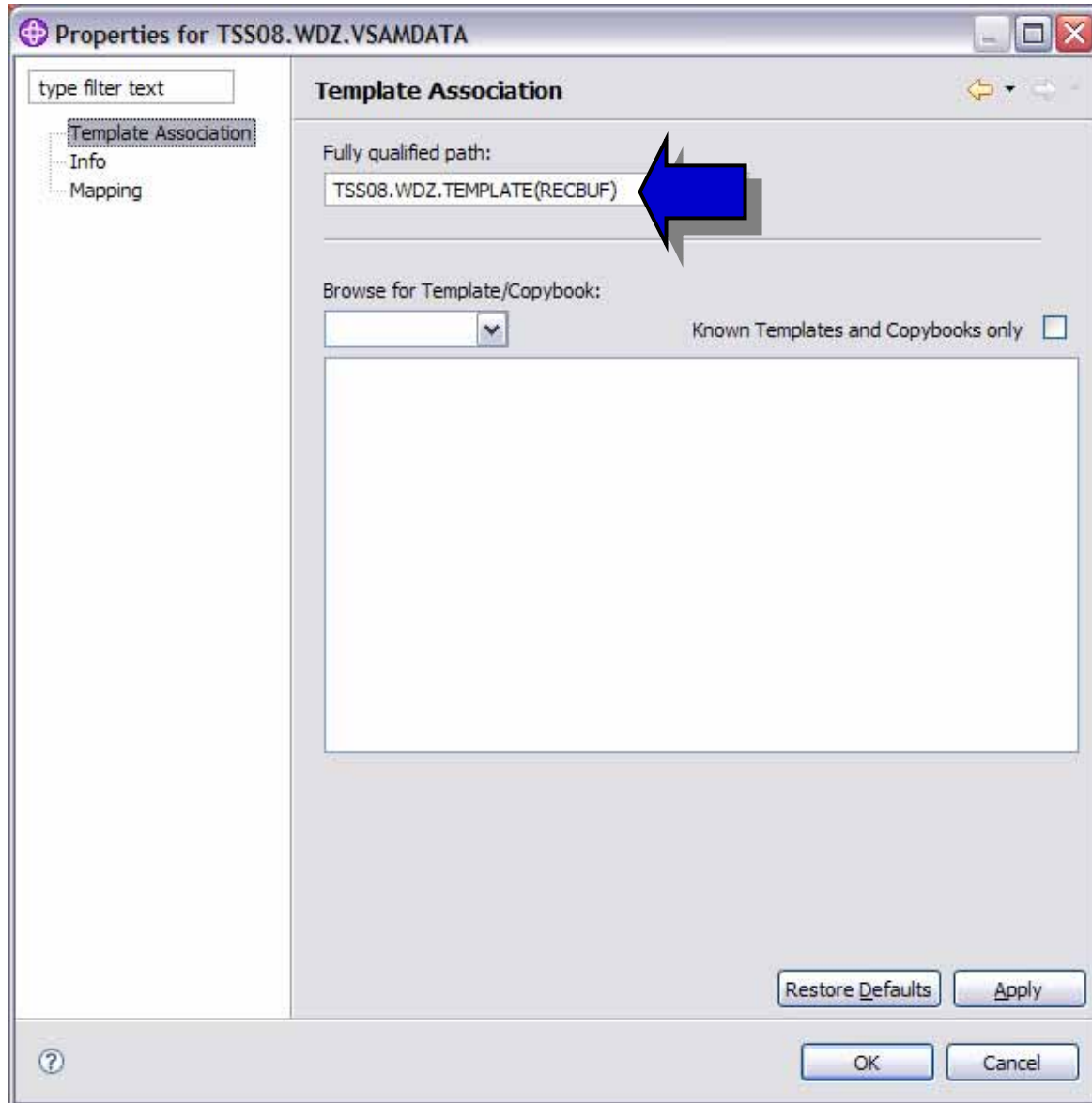
Remote Error List | z/OS File System Mapping | Remote System Details

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**COBCOPY	cpy	text	IBM-037 (inhe...	Cp1252 (inheri...
**DATA	tdat	binary	IBM-037 (inhe...	Cp1252 (inheri...
**PLI	pli	text	IBM-037 (inhe...	Cp1252 (inheri...
**ASSEMBLE	asm	text	IBM-037 (inhe...	Cp1252 (inheri...
**OBJ	obj	binary	IBM-037 (inhe...	Cp1252 (inheri...

Shows remote object properties

start | Web... | Replic... | Micro... | Wdz... | 2:14... | 2 P... | Wind... | z/OS ... | 95% | 12:48 AM Tuesday 8/14/2007



z/OS Projects - TSS08.WDZ.VSAMDATA - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Hex [Icons]

z/OS Projects

- DemoMSV Projects
- SVLabf2 Projects
- SVLabf6 Projects

TSS08.WDZ.VSAMDATA

Template Associated: TSS08.WDZ.TEMPLATE(RECBUF)

	W.	WS-ACCT-REPRESEN...	WS-KEY1	W.	V	V	V	V	V
01		Dennis Smith	1e2141426086	1e	2	1	4	1	4
01		Russ Courtney	1h2141425706	1h	2	1	4	1	4
01		Al Oratter	8i2141428587	8i	2	1	4	1	4
01		Al Oratter	8i2141428587	8i	2	1	4	1	4
01		Dan Brown	5k4444444243	5k	4	4	4	4	4
01		Dinnis Smith	412141422039	41	2	1	4	1	4

Single Mode

Field	Data

Table / Single Character

Remote Systems Team

- TSS08.WDZ.DATA
- TSS08.WDZ.EQALANGX
- TSS08.WDZ.FILES
- TSS08.WDZ.JCL
- TSS08.WDZ.JCLSETUP
- TSS08.WDZ.LOAD
- TSS08.WDZ.OBJ
- TSS08.WDZ.PLI
- TSS08.WDZ.PLIDBG
- TSS08.WDZ.PLILIST
- TSS08.WDZ.SYSDEBUG
- TSS08.WDZ.TEMPLATE
- TSS08.WDZ.XMIT
- TSS08.WDZ.VSAMDATA
- TSO Commands
- USS Files
- USS Shells
- SVLMVS1
- SVLabf6
- TestDrive
- DemoMSV

Properties Outline

An outline is not available.

Remote Error List z/OS File System Mapping Remote System Details

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**COBCOPY	cpy	text	IBM-037 (inhe...	Cp1252 (inheri...
**DATA	tdat	binary	IBM-037 (inhe...	Cp1252 (inheri...
**PLI	pli	text	IBM-037 (inhe...	Cp1252 (inheri...
**ASSEMBLE	asm	text	IBM-037 (inhe...	Cp1252 (inheri...
**OBJ	obi	binary	IBM-037 (inhe...	Cp1252 (inheri...

Insert

z/OS Projects - TSS08.WDZ.VSAMDATA - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

TSS08.WDZ.VSAMDATA

Template Associated: TSS08.WDZ.TEMPLATE(RECBUF)

	W.	WS-ACCT-REPRESEN...	WS-KEY1	W.	W	W	W	W	W	WS-KEY-NUM...	W.	W...	W.	R..	R..	R..	WS-COMPANY-NAME1	
	01	Dennis Smith	1e2141426086	1e	2	1	4	1	4	2	-9.91303382...	=>	1000	<=	1	1	99	ABM Industries Inc
	01	Russ Courtney	1h2141425706	1h	2	1	4	1	4	2	-6.37481973...	=>	1003	<=	1	1	99	ADC Telecommunicat
	01	Al Oratter	8i2141428587	8i	2	1	4	1	4	2	-2.59039296...	=>	1005	<=	1	1	99	Adolph Coors Compa
	01	Al Oratter	8i2141428587	8i	2	1	4	1	4	2	-2.59039296...	=>	1007	<=	1	1	99	Adolph Coors Compa
	01	Dan Brown	5k4444444243	5k	4	4	4	4	4	4	-3.90416577...	=>	1010	<=	1	1	99	Advanced Micro Dev
	01	Dinnis Smith	4l2141422039	4l	2	1	4	1	4	2	-1.51248660...	=>	1011	<=	1	1	99	AdvancePCS, Inc.
	01	Joe Macaferty	6m2141420068	6m	2	1	4	1	4	2	-5.90843778...	=>	1012	<=	1	1	99	Advantica Restaura
	01	Tom Wolfe	9o2141424977	9o	2	1	4	1	4	2	-4.01684073...	=>	1013	<=	1	1	99	Aetna Inc.
	01	Robbie Robinson	9p2141422638	9p	2	1	4	1	4	2	-1.55014912...	=>	1014	<=	1	1	99	Affiliated Compute
	01	Bobby Jobe	3r2141422252	3r	2	1	4	1	4	2	-1.52508918...	=>	1022	<=	1	1	99	AGCO Corporation
	01	Chuck Ecerline	7s2141423705	7s	2	1	4	1	4	2	-2.49016380...	=>	1023	<=	1	1	99	Agilent Technologi

Single Mode

Field	Data
WS-REC-TYPE-1	01
WS-ACCT-REPRESENTIVE1	Joe Macaferty
WS-KEY1	6m2141420068
WS-KEY-CASE1	6m
WS-KEY1-FA	2
WS-KEY1-FM	1
WS-KEY1-DT	4
WS-KEY1-AM	1
WS-KEY1-WS	4
WS-KEY1-MU	2
WS-KEY-NUMBER1	-5.908437783681777E57

Table / Single Character

Insert

z/OS Projects - TSS08.WDZ.VSAMDATA - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

00000004.JESYSMSG *GATCEMO.jcl DNET603.WDZ.SYSDEBUG(ATCDEMO) TSS08.WDZ.VSAMDATA

TEMPLATE(RECBUF)

ESSEN...	WS-KEY1	W.	W...	W.	R..	R..	R..	WS-COMPANY-NAME1	
	1e2141426086	1e	2	1	4	1	4	2	-9.91303382... => 1000 <= 1 1 99 ABM Industries Inc
	1h2141425706	1h	2	1	4	1	4	2	-6.37481973... => 1003 <= 1 1 99 ADC Telecommunicat
	8i2141428587	8i	2	1	4	1	4	2	-2.59039296... => 1005 <= 1 1 99 Adolph Coors Compa
	8i2141428587	8i	2	1	4	1	4	2	-2.59039296... => 1007 <= 1 1 99 Adolph Coors Compa
	5k4444444243	5k	4	4	4	4	4	4	-3.90416577... => 1010 <= 1 1 99 Advanced Micro Dev
01	Dinnis Smith	41	2	1	4	1	4	2	-1.51248660... => 1011 <= 1 1 99 AdvancePCS, Inc.
01	Joe Macaferty	6m	2	1	4	1	4	2	-5.90843778... => 1012 <= 1 1 99 Advantica Restaura
01	Tom Wolfe	9o	2	1	4	1	4	2	-4.01684073... => 1013 <= 1 1 99 Aetna Inc.
01	Robbie Robinson	9p	2	1	4	1	4	2	-1.55014912... => 1014 <= 1 1 99 Affiliated Compute
01	Bobby Jobe	3r	2	1	4	1	4	2	-1.52508918... => 1022 <= 1 1 99 AGCO Corporation
01	Chuck Ecerline	7s	2	1	4	1	4	2	-2.49016380... => 1023 <= 1 1 99 Agilent Technologi

Single Mode

Field	Data
WS-REC-TYPE-1	01
WS-ACCT-REPRESENTIVE1	Joe Macaferty
WS-KEY1	6m2141420068
WS-KEY-CASE1	6m
WS-KEY1-FA	2
WS-KEY1-FM	1
WS-KEY1-DI	4
WS-KEY1-AM	1
WS-KEY1-WS	4
WS-KEY1-MU	2
WS-KEY-NUMBER1	-5.908437783681777E57

Table / Single Character

start | Address | Go | 96% | 4:28 PM Tuesday 9/25/2007

Fw: Update ... | 3 Internet... | 5 Microsof... | 9 Lotus Sa... | 2 PCSWS... | z/OS Project...

z/OS Projects - TSS08.WDZ.VSAMDATA - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Hex

DNET603.DNET603W.JOB02851.D0000004.JESYSMSG *GATCDEMO.jd DNET603.WDZ.VSAM

Template Associated: TSS08.WDZ.TEMPLATE(RECBUF)

W.	WS-ACCT-REPRESEN...	WS-KEY1	W.	V	V	V	V	V	V	WS-KEY
01	Dennis Smith	1e21414...	1e	2	1	4	1	4	2	-9.913
01	Russ Courtney	1h21414...	1h	2	1	4	1	4	2	-6.374
01	Al Oratter	8i21414...	8i	2	1	4	1	4	2	-2.590
01	Al Oratter	8i21414...	8i	2	1	4	1	4	2	-2.590
01	Dan Brown	5k44444...	5k	4	4	4	4	4	4	-3.904
01	Dinnis Smith	4l21414...	4l	2	1	4	1	4	2	-1.512
01	Joe Macaferty	6m21414...	6m	2	1	4	1	4	2	-5.908
01	Tom Wolfe	9o21414...	9o	2	1	4	1	4	2	-4.016
01	Robbie Robinson	9p21414...	9p	2	1	4	1	4	2	-1.550
01	Bobby Jobe	3r21414...	3r	2	1	4	1	4	2	-1.525
01	Chuck Ecerline	7a21414...	7a	2	1	4	1	4	2	-2.490

Single Mode

Field	Data
WS-REC-TYPE-1	01
WS-ACCT-REPRESENTIVE1	Joe Macaferty
WS-KEY1	6m2141420068
WS-KEY-CASE1	6m
WS-KEY1-FA	2
WS-KEY1-FM	1
WS-KEY1-DT	4
WS-KEY1-AM	1
WS-KEY1-WS	4
WS-KEY1-MU	2
WS-KEY-NUMBER1	-5.908437783681777E57

Table / Single Character

Find/Replace

Find: 5k4444

Replace With:

Within Fields

- WS-REC-TYPE-1
- WS-ACCT-REPRESENTIVE1
- WS-KEY1
- WS-KEY-CASE1
- WS-KEY1-FA
- WS-KEY1-FM
- WS-KEY1-DT
- WS-KEY1-AM
- WS-KEY1-WS
- WS-KEY1-MU
- WS-KEY-NUMBER1
- WS-KEY-START1
- WS-VSAM-KEY1
- WS-KEY-END1
- RECORD-YEAR1
- RECORD-MONTH1
- RECORD-DAY1
- WS-COMPANY-NAME1

Select All Deselect All

Scope

- Selected Records
- Visible Records
- Excluded Records
- Excluded and Visible Records

Direction

- Forward
- Backward

Options

- Case Sensitive
- Regular Expressions

Find Replace/Find

Replace Replace All

Select Matches Close

z/OS Projects

WS-COMPANY-NAME1

IBM Industries Incor

DC Telecommunicatic

Adolph Coors Company

Adolph Coors Company

Advanced Micro Devic

AdvancePCS, Inc.

Advantica Restaurant

etna Inc.

Affiliated Computer

AGCO Corporation

Agilent Technologies

start

Address Go

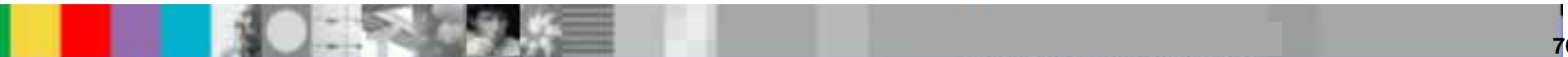
96%

4:30 PM Tuesday 9/25/2007

Fw: Update ... 3 Internet... 5 Microsof... Lotus Sa... 2 PCSWS... z/OS Project...



WDz IBM Fault Analyzer Integration and Access



z/OS Projects - TSS08.WDZ.VSAMDATA - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

Hex

z/OS Projects

- SVLabf2 Projects
- SVLabf6 Projects
- Test Project
- WDz DemoMVS

Open Perspective

Template

- Crystal Reports
- CVS Repository Exploring
- Data
- Debug
- Enterprise Service Tools
- FA Perspective
- JZEE
- Java
- Java Browsing
- Java Type Hierarchy
- Plug-in Development
- Remote System Explorer
- Report Design
- Resource
- Rule Builder
- SCLM
- Team Synchronizing
- Web
- z/OS Projects (default)

Show all

OK Cancel

Remote Systems Team

- TSS08.WDZ.ASSEMBLE
- TSS08.WDZ.C
- TSS08.WDZ.CDBG
- TSS08.WDZ.CLST
- TSS08.WDZ.COBOLE
- TSS08.WDZ.COBOLEST
- TSS08.WDZ.DATA
- TSS08.WDZ.EQALANGX
- TSS08.WDZ.FILES
- TSS08.WDZ.JCL
- TSS08.WDZ.JCLSETUP
- TSS08.WDZ.LOAD
- TSS08.WDZ.OBJ
- TSS08.WDZ.PLI
- TSS08.WDZ.PLIDBG
- TSS08.WDZ.PLILIST
- TSS08.WDZ.SYSDEBUG
- TSS08.WDZ.TEMPLATE
- TSS08.WDZ.XMIT
- TSS08.WDZ.BCOBOSVS
- TSS08.WDZ.VSAMDATA
- TSO Commands
- USS Files
- USS Shells

Properties Outline

Property	Value
Info	
Created	
Last Modified	
Size	
Mapping	
Extension	tdat
Host Code	IBM-037
Local Code	Cp1252
Transfer	binary
Misc	
Name	TSS08.WDZ.VSAMDATA
Number of	0
Type	VSAM Data Set [KSDS]

Table / Single Character

Remote Error List z/OS File System Mapping Remote System Details Debug

System: SVLabf2

Mapping Criterion	Workstation File Extension	Transfer Mode	Host Code Page	Local Code Page
**COBOL	cbl	text	IBM-037 (inhe...	Cp1252 (inheri...
**HTML	htm	text	IBM-037 (inhe...	Cp1252 (inheri...

Insert

start

Address Go

96%

4:33 PM Tuesday 9/25/2007

Timothy Ma... 3 Internet... 5 Microsof... 9 Lotus Sa... 2 PCSWS... z/OS Project...

FA Perspective - F00535.far - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

FA Artifacts SVLabf2 History Files IDI.STLABF2.HIST

DNET603.DNET603W.J... *GATCEMO.jd DNET603.WDZ.SYSDEB... TSS08.WDZ.VSAMDATA F00535.far

Browse Dump

Fault Summary

Module ATCDEM5, program ATCDEM5, source line # 61: Abend S0CB (Decimal-Divide Exception)

Synopsis

```

IBM FAULT ANALYZER SYNOPSIS

A system abend 0CB occurred in module ATCDEM5 program ATCDEM5 at offset X'3BE'.

A program-interruption code 000B (Decimal-Divide Exception) is associated with
this abend and indicates that:

The divisor was zero in a signed decimal
division.
    
```

Main Report System Wide Information Misc Information

Properties Outline An outline is not available.

Default Column Configuration

System Name SVLabf2

Fault History File or View IDI.STLABF2.HIST

Fault_ID	Job/Tran	User_ID	Date	Sys/Job	Abend	I_Abend	Job_ID
F00541	KPH1	REDBK5	August 9, 2007	CICSC31B			STC00754
F00540	CECI	REDBK5	August 9, 2007	CICSC31B	AEIP	AEIP	STC00754
F00539	CECI	KPHUME	August 9, 2007	CICSC31B	°E*Q	°E*Q	STC00754
F00538	CECI	KPHUME	August 9, 2007	CICSC31B			STC00754
F00537	HCHI	ALLANSC	August 9, 2007	CICSC31B	ABM0	ABM0	STC00754
F00536	TSS09A	TSS09	August 6, 2007	STLABF2	S0CB	S0CB	JOB01015
F00535	TSS08A	TSS08	August 6, 2007	STLABF2	S0CB	S0CB	JOB01001

start

Address Go

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FA Perspective - ATCD5.cbl - IBM WebSphere Developer for System z

File Edit Navigate Search Project Data Run Window Help

FA Artifacts Navigator

SVLabf2
History Files
IDI.STLABF2.HIST

DNET603.DNET603W.JOB... *GATCDEMO.jd TSS08.WDZ.VSAMDATA F00535.far ATCD5.cbl

Line 53 Column 44 Insert

```

-----*A-1-B-----2-----3-----4-----5-----6-----7-----8
LINKAGE SECTION.
01 PARM-VAL.
05 DEMO-TYPE          PIC X(2).
05 PARM-YEAR          PIC 9(2).
*****
* IN LINE LOGIC      *
*****
PROCEDURE DIVISION USING PARM-VAL.
PROGD.
PERFORM WITH TEST BEFORE UNTIL TDPARM1 > 0
SUBTRACT 1 FROM TDPARM1
END-PERFORM
MOVE P1PARM1 TO PARM-YEAR
DIVIDE PARM-YEAR INTO BASE-YEAR
    
```

Properties Outline

- 01 TDPARM1
- 01 TDPARM2
- 01 P1PARM1
- 01 BASE-YEAR
- 01 LOOPCT
- 01 INPUT-RECORD-1
- 01 INPUT-RECORD-2
- LINKAGE SECTION.
- PROCEDURE DIVISION USING PARM-VA
- PROGD.
- PROCD.
- PROCE.

Default Column Configuration

System Name: SVLabf2
Fault History File or View: IDI.STLABF2.HIST

Fault_ID	Job/Tran	User_ID	Date	Sys/Job	Abend	I_Abend	
F00541	KPH1	REDBK5	August 9, 2007	CICSC31B			S
F00540	CECI	REDBK5	August 9, 2007	CICSC31B	AEIP	AEIP	S
F00539	CECI	KPHUME	August 9, 2007	CICSC31B	%E*Q	%E*Q	S
F00538	CECI	KPHUME	August 9, 2007	CICSC31B			S
F00537	HCHI	ALLANSC	August 9, 2007	CICSC31B	ABM0	ABM0	S
F00536	TSS09A	TSS09	August 6, 2007	STLABF2	SOCB	SOCB	Ji
F00535	TSS08A	TSS08	August 6, 2007	STLABF2	SOCB	SOCB	Ji
F00534	TSS08A	TSS08	August 2, 2007	STLABF2	SOCB	SOCB	Ji
F00533	TSS08A	TSS08	August 1, 2007	STLABF2	SOCB	SOCB	Ji

start | Timothy Ma... | 3 Internet... | 5 Microsof... | 9 Lotus Sa... | 2 PCSWS... | FA Perspecti... | 96% | 4:39 PM Tuesday 9/25/2007

The screenshot displays the IBM WebSphere Developer for System z interface with several tool windows open:

- File Manager:** Shows a project tree on the left and a table of data in the center. The table has columns for C... (likely CUST-ACCT-BALANCE), F NAME, and ACCT-BA... (likely ACCT-BALANCE).
- Fault Analyzer:** Shows an event summary with the text "IBM FAULT ANALYZER EV".
- Debug Tool:** Shows a code editor with a highlighted line 196: `COMPUTE CUST-ACCT-BALANCE =`.
- Properties:** Shows connection details for "My Jobs".
- Outline:** Shows a debug tree with "Thread:1 (Runnable)" and "Process: 441516256".
- Remote Error List:** Shows a table of system errors.

Fault Analyzer

File Manager

Debug Tool

Fault_ID	Job/Tran	User_ID	Sys/Job	Abend	I_Abend	Job_ID	Jobname
F01585	JPHILDNS	JPHILDN	ZT01	S0C7	S0C7	JOB05521	JPHILDNS
F01584	TRAD	CICSUSER	ADTMONO	AED3	AED3	STC02947	ADTMONO
F01583	CEDF	CICSUSER	ADTMONO	ATNI	ATNI	STC02947	ADTMONO

Polling Questions

Q1. Please evaluate your level of satisfaction with today's teleconference

- If it was High, press STAR ONE
- If it was Medium, press STAR TWO
- If it was low, press STAR THREE

Q2. Was the level of technical information presented in this teleconference

- If it was At the right level, press STAR ONE
- If it was Not technical enough press STAR TWO
- If it was More technical than I needed to hear, press STAR THREE

Q3. Do you have a requirement to make your current System z Application Development area more productive?

- If yes press STAR ONE
- If no press STAR TWO

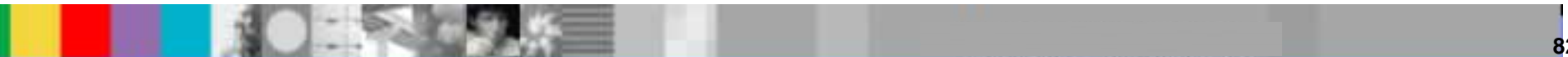
Q4. From what you heard today, would you like more information on ISPF Productivity Tool?

- If yes press STAR ONE
- If no press STAR TWO

Q5. From what you heard today, would you like more information on Wdz?

- If yes press STAR ONE
- If no press STAR TWO

Questions



Thank You for Joining Us today!

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