



IBM ISPF Productivity Tool

IBM ISPF Productivity Tool V5.8

 **DEMAND BUSINESS™**

The logo features the letters 'ON' in white, bold, sans-serif font inside a red, rounded square with a slight 3D effect. To the right of this square, the words 'DEMAND BUSINESS' are written in a large, bold, black, sans-serif font, followed by a trademark symbol (™).

Speakers

- **Pamela (PJ) Baron**, Business Unit Executive / pbaron@us.ibm.com
- **Walter Zakorchemny / (Zak)**
- **Mike Rotter**
- **Curtis Smith**

Agenda

- **Technical Session**
- **Polling Questions**
- **Open Q & A Session**

IBM ISPF Productivity Tool Functional Overview

- **Enhances ISPF Productivity**

- Consolidates commands within a single panel (Member Selection List)
- Presents a comprehensive, object-oriented, project- related list of data sets (Object List)
- Provides Extensive Point & Shoot capabilities
- Extended TSO command execution
- Automatic PDS Member compression
- Reduce Keystrokes and EXCP counts
- Enhanced Print and Clipboard Capabilities
- Improves ISPF navigation
- SCLM, Librarian, Panvalet library support

- **Environments Supported**

- ISPF 3.3 and above

- **Order IBM ISPF Productivity Tool**

PID 5698-A81
S&S 5698-S89

- **Information Available At**

www.ibm.com/software/awdtools/ispfproductivitytool/library/

IBM ISPF Productivity Tool Functions

- **Object List (OLIST)**
- **Member Selection List (MSL)**
- **Enhanced DSLIST (ISPF 3.4)**
- **Enhanced TSO Command shell**
- **Point and Shoot**
- **Enhanced Clipboards and Print Command**

Object List (OLIST)

- **OLIST Command is available from any panel to access a table of Object Names**
- **Object lists can be saved for quick access to data and commands**
- **OLISTS can contain multiple object types (VSAM, PDS, Sequential, SCLM, Catalog Search, DB2 Tables)**
- **Additional commands reduce the need to navigate to utilities panels.**

OLIST (Object List)

```

Menu Utilities Compilers Options Status Help
-----
                                OS/390 Primary Option Menu
Option ==> o
-----
0 Settings      Terminal and user parameters      User ID . . : USER1
1 Browse       Display source data or listings    Time. . . . : 15:20
V View         Display or change source data      Terminal. . : 3278
2 Edit         Create or change source data       Screen. . . : 1
3 Utilities    Perform utility functions         Language. . : ENGLISH
4 Foreground   Interactive language processing    Appl ID . . : ISR
5 Batch        Submit job for language processing  TSO logon . : SPFE581
6 Command      Enter TSO or Workstation commands  TSO prefix: USER1
7 Dialog Test  Perform dialog testing            System ID . : TVT4097
8 LM Facility  Library administrator functions    MVS acct. . : ACCT#
9 Programs     Program Products and Tools        Release . . : ISPF 5.6
10 SCLM        SW Configuration Library Manager
11 Workplace   ISPF Object/Action Workplace
S SDSF         System Display and Control
0 OLIST        Object/Data Set

Enter X to Terminate
    
```

Access OLIST List from Main panel or use OLIST command from any panel

OLIST (Additional Commands Available)

```

SPF/E OLIST (B) ----- Objects List ----- Row 1 to 5 of 16
Command      ===> █                               Scroll ===> CSR
Hotbar?
Main commands: Assist CANCEL CLRVOL CMDparm CUT eXclude EXPORT FILLVOL FILTER
Find FindText FLIP LISTA LISTC LISTG LISTH LISTS LISTV Locate MEMFin MLIST
OPEN PASTe POPulate PPRINT RELeas RESet RFIND SAVE SET SHOWcmd SORT UPDate
UTIL VALIDate or ...
number to select line or number-number to select a range or * to select all
Line commands: A(llocate), B(rowse), C(atalog), COMP(ress), COPY, D(elete),
DSLIS, E(dit), EXPDIR, F(ree), I(nfo), J(submit), LISTB, LISTC, LISTG,
LISTM, LISTP, LISTT, LISTV, LISTW, M(ove), OLIST, PLIST, P(rint), R(ename),
S(elect), SUB(mit), U(ncatalog), V(iew), X(exclude), Y(expdir), Z(compress),
or a TSO command, or following inline edit commands ...
/D(elete line), /DD(elete range), /I(nsert line), /R(epeat line), /S(show),
/X(exclude), /XX(exclude range)
Open list ===> SYS1 (or BLANK for reference list)
TSO PARMS ===>
Command  Member  Num.  Data Set Names / Objec
-----  -
1 'SYS1.PARMLIB'
2 'SYS1.PARMLIB.CB'
3 'SYS1.PARMLIB.INSTALL'
4 'SYS1.PARMLIB.MSYS'
5 'SYS1.PARMLIB.PD'
    
```

OLIST Assist Panel displays Additional Commands that reduce the need to Navigate to Utility Panel

OLIST Main Panel

Name and Save multiple OLIST to reference projects or frequently used Datasets.
 Create OLIST from ISPF 3.4

```

SPF/E OLIST (B) ----- Objects List ----- Row 1 to 16 of 16
Command    ===> 11                               SCROLL ===> CSR
Hotbar?
Open list  ===> SYS1 (or BLANK for reference list)
TSO PARMS  ===>
Command    Member    Num. Data Set Names / Objects                Class
-----
1 'SYS1.PARMLIB'
2 'SYS1.PARMLIB.CB'
3 'SYS1.PARMLIB.INSTALL'
4 'SYS1.PARMLIB.MSYS'
5 'SYS1.PARMLIB.PD'
6 'SYS1.PARMLIB.POK'
7 'SYS1.PARMLIB.SRVRPAC'
8 'SYS1.PDEFLIB'
9 'SYS1.PHELP'
10 'SYS1.PPOPTION'
11 'SYS1.PROCLIB'                                PDS
12 'SYS1.PROCLIB.INSTALL'                       PDS
13 'SYS1.PROCLIB.MSYS'
14 'SYS1.PROCLIB.PD'
15 'SYS1.PROCLIB.POK'
16 'SYS1.PSEGLIB'
    
```

Quick access to Datasets
by reference #

Reduces Keystrokes and prevents Typos

-B
-B

PDS
PDS

Selected Dataset in Browse

Member Selection List (MSL) Assist Panel displays available Commands

```

)PF/E-BROWSE L1----- SYS1.PROCLIB -----
)COMMAND  ==>
)TBAR?
    
```

NAME	RENAME	LIB	VV.MM	CREATED	CHANGED	SIZE	INIT
\$\$\$COIBM		1	17.00	96/07/05	04/02/16 11:04	25	24


```

----- SPIFFY MSL MAIN COMMANDS -----
Assist  COMPRESS CONFIRM  DEFault  DSName
EXIT    EXPDIR   FILTER   Find     FindText
Global  INFO      LIB      LMAP     LMF
PROject QUIT      RELease RESet    RFind
SCLM    SCLMPARM SET      SORT     SSI
SUBmit  TAG       TAILOR  TOTALS   TYPE
USAGE   VLF      WHERE   XFER

----- SPIFFY MSL LINE COMMANDS -----
B (browse)  C (copy)    D (Delete) E (edit)  H
I (ISPEXEC) J (submit) K (SCLM)  M (move)  P
R (rename)  S (select) T (TSO)   V (view)  W
X (exclude) Z (stats) = (repeat) % (CLIST/RE

Use the SET command to control the assist wi
    
```

OLIST 'FINDTEXT' Command

Searching for Text in ISPF would require you to navigate to utility panels
And concatenations are not support

```
SPF/E OLIST (B) ----- Objects List -----
Command   ==> findtext TSS08.BIGREAD.FILE
```

```
SPF/E OLIST (B) ----- Objects List ----- Row 9 to 17 of 17
Command   ==>                               SCROLL ==> PAGE
Found in RNBIGRED -->INFILE   DD DSNAME=TSS08.BIGREAD.FILE,DISP=SHR
Open list . . . TSS01      (or BLANK for reference list)
TSO PARMS . . .
Command   Member      Num. Data Set Names / Objects                               Volume
-----
-TXT FND- RNBIGRED    9 'TSS01.JCL.CNTL'                               STF20A
                               10 'TSS01.LANGX.DEBUG'                           STF202
                               11 'TSS01.PDF'                                   STF21D
                               12 'TSS01.PLIST.LIBRARY'                       STF204
                               13 'TSS01.SPFLOG1.LIST'                        STF21B
                               14 'TSS01.TEST.DATASET'                        STF203
                               15 'TSS01.TSS01.R0289.TSS01X.SF'                STF20F
                               16 'TSS01.TSS01.R0290.TSS01X.SF'                STF219
                               17 'TSS01.TSS01.R0291.TSS01X.SF'                STF20B
----- END OF LIST -----
```

The above 'Findtext' command searched the entire OLIST concatenation. Find can be limited to a Dataset or range of datasets.

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**

Member Selection List

Assist op up Available to list
Available commands

```
SPF/E-BROWSE L1---- SYS1.PROCLIB -----ROW 00001 OF 00083
COMMAND ==>          SCROLL ==> PAGE
HOTBAR?
```

NAME	RENAME	LIB	VV.MM	CREATED	CHANGED	SIZE	INIT	MOD	USERID
\$\$\$COIBM		1	17.00	96/07/05	04/02/16 11:04	25	24	0	CS17270


```
+-----Assist-----
      ---- SPIFFY MSL MAIN COMMANDS ----
Assist  COMPRESS CONFIRM DEFault  DSName  EXCLude
EXIT    EXPDIR   FILTER   Find     FindText FLIP
Global  INFO     LIB      LMAP    LMF      Locate
PROJECT QUIT      RELEase RESet    RFind    SAVE
SCLM    SCLMPARM SET     SORT    SSI      STATS
SUBmit  TAG       TAILOR  TOTALS  TYPE     UNFilter
USAGE   VLF      WHERE   XFER

      ---- SPIFFY MSL LINE COMMANDS ----
B (browse)  C (copy)   D (Delete) E (edit)  H (where)
I (ISPEXEC) J (submit) K (SCLM)  M (move)  P (print)
R (rename)  S (select) T (TSO)   V (view)  W (preview)
X (exclude) Z (stats) = (repeat) % (CLIST/REXX call)

Use the SET command to control the assist window.
```

Additional commands reduces panel navigation

VA a

Enhanced DSLIST (ISPF 3.4)

- **Quick navigation to OLIST**
- **Extended VTOC List**
- **List - TSO Allocations, Linklist Allocations, GDG'S, VSAM Clusters**
- **Additional Patterns to locate Datasets**

DSLISIT ISPF 3.4

Additional options for Extended VTOC and Display LPA, Linklst and TSO Allocations

```

SPF/E                               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 TSS01)
Dsname Level . . . SYS1*P* More?. . . N
Volume serial. . . . . (Leave BLANK for catalog scan,
                        volser or pattern for VTOC scan)
    
```

Data set list options:

```

Initial View . . . 1 : 1. Volume 2. Space 3. Attr
    
```

```

Enter "/" to select option: / Confirm Delete
                          / Additional Dataset Qualif
    
```

Additional Patterns available to locate Datasets

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

Results of 3.4 Displayed as OLIST

```

File Edit Find Display Populate Settings Menu Util Test Help Exit
-----
SPF/E OLIST (B) ----- LEVEL SYS1*P* ----- Row 1 to 15 of 154
Command   ==> █ SCROLL ==> PAGE
Hotbar?

TSO PARMS . . .
Command  Member  Num. Data Set Names / Objects  Volume
-----
      1 'SYS1.APPCSI'
      2 'SYS1.APPCSI.DATA'
      3 'SYS1.APPCSI.INDEX'
      4 'SYS1.APPCTP'
      5 'SYS1.APPCTP.DATA'
      6 'SYS1.APPCTP.INDEX'
      7 'SYS1.CICS.SDFHLPA'
      8 'SYS1.CP.CLIST'
      9 'SYS1.DFQPLIB'
     10 'SYS1.DGTPLIB'
     11 'SYS1.DUMP00'
     12 'SYS1.DUMP01'
     13 'SYS1.DUMP02'
     14 'SYS1.DUMP03'
     15 'SYS1.DUMP04'
    
```

TEMPORARY LIST

Save OLIST for future Reference

DSLIST Select Special Dataset List

```
SPF/E
Command ==> sp
blank - Display datas
```

Select LPA,LNKLIST and TSO allocations

```
SPF/E
Command ==>
blank - Disp
  TP - Temp
  PL - Perm
  GDG - Disp
  SET - Set

Enter an opt
Specify para
Object Li
Dcname Le
Volume serial ==>

Special Lists
  3 1. Multiple Levels...
    2. Search Dataset...
    3. Allocated DDNAMES...
    4. History (referenced files)
    5. HSM Migrated files ...
    6. GDG (generation datasets) ...
    7. LPALIB libraries ...
    8. LINKLIST libraries ...
    -----
    X. Return (END key)

t data set list
t VTOC information
lay VTOC information
nded VTOC & space summary
ial data set lists
option code
tion list, = for SYS1
More? ==> N

(Leave BLANK for catalog scan,
volser or pattern for VTOC scan)
```

```
Data set list options:
Initial View ==> 1 : 1. Volume 2. Space 3. Attrib 4. Total

Enter "/" to select option: / Confirm Delete
                          / Additional Dataset Qualifiers
```

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

DSLIST Allocated DD's for TSO

```

SPF/E OLIST (B) ----- ALLOCATION LIST ----- Row 1 to 17 of 57
Command   ===> █                               SCROLL ===> CSR
Hotbar?

                                                    *TEMPORARY LIST*

TSO PARMS   ===>
Command   Member   Num. Data Set Names / Objects                               Volume
-----
-STEPLIB           1 'SPFE.V5R8M1.V58PTFL'                               T40971
                2 'SPFE.V5R8M1.V58LPA'                               T40971
                3 'SPFE.V5R8M1.V58LOAD'                             T40971
-SYSABEND          4 'USER1.USER1.TSU00157.D0000101.?'
-ISPTABL           5 'USER1.ISPF.ISPPROF'                               T40972
-SMPTABL           6 'USER1.ISPF.ISPPROF'                               T40972
-IPISCLM           7 'NULLFILE'
-IPITLIB           8 'SPFE.V5R8M1.V58TLIB'                               T40971
-IPITBLIB          9 'USER1.ISPF.IPITBLIB'                               T40971
-SYSEXEC          10 'ISP.SISPEXEC'                                       G1602D
                11 'ISF.SISFEXEC'                                       G1602D
                12 'SYS1.SBPXEXEC'                                       G1601D
-ISPALIB           13 'ISP.SISPALIB'                                       G1602D
-ISP09461          14 'USER1.SPFL0G1.LIST'                               T40973
-PLSTLIBW          15 'USER1.PLIST.LIBRARY'                             T40973
-IS000005          16 'SYS1.PARMLIB'                                       G1601D
-SYSPROC           17 'SPFE.V5R8M1.V58CLIB'                               T40971

```

QA b

02/018

Enhanced TSO Commands

- **Supports 999 entries**
- **Maintains a Temporary 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 (example TSO 1)

Enhanced TSO Command Shell

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

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**
 - Point and Shoot Dataset in JCL or Output Listings
 - Point and Shoot Member names in source or JCL

Point and Shoot

- Point and Shoot reduces Keystrokes
 To perform this same function in ISPF
- 1) Highlight the Dataset
 - 2) Copy
 - 3) =1
 - 4) Paste
 - 5) Enter

```

    Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY USER1G  JOB00123  DSID      4 LINE
COMMAND INPUT ==> browse
ICH70001I USER1      LAST ACCESS AT 21:40:18 ON THURSDAY,
IEF236I ALLOC. FOR USER1G AMULTIV
IGD17070I DATA SET SPFE.GDG.VB12544.G0001V00
ALLOCATED SUCCESSFULLY WITH 1 STRIPE(S).
IGD17162I RETURN CODE (12) REASON CODE (5F01083F) RECEIV
COMPRESSION SERVICES WHILE PROCESSING DATA SET
SPFE.GDG.VB12544.G0001V00 , COMPRESSION REQUEST NOT
HONORED BECAUSE DATA SET CHARACTERISTICS DO NOT MEET COMPRESSION CRITERIA,
ALLOCATION CONTINUES
IGD101I SMS ALLOCATED TO DDNAME (MULTIVOL)
      DSN (SPFE.GDG.VB12544.G0001V00
      )
      STORCLAS (CLASS2) MGMTCLAS (
      ) DATACLAS (EXTSEQ)
      VOL SER NOS= T40973
IEF142I USER1G AMULTIV - STEP WAS EXECUTED - COND CODE 0000
IGD107I SPFE.GDG.VB12544.G0001V00          ROLLED IN, DDNAME=MULTIVOL
IEF373I STEP/AMULTIV /START 2005237.2142
IEF374I STEP/AMULTIV /STOP  2005237.2142 CPU      0MIN 00.00SEC SRB      0MIN 00.00S
IEF375I JOB/USER1G  /START 2005237.2142
IEF376I JOB/USER1G  /STOP  2005237.2142 CPU      0MIN 00.00SEC SRB      0MIN 00.00S
***** BOTTOM OF DATA *****
    
```


Additional Enhanced Functions

- **Cut And Paste**
 - Supports up to 200 clipboards
 - Named and Numbered clipboards for easy access
 - Clipboards can be saved between sessions
- **Print**
 - PRINT available as a line command and/or main command of MSL and OLIST
 - Formatted printout is available
 - Immediate (separate output file) or grouped (concatenated) outputs are available
- **Edit Panel**
 - Quick selection on last Referenced Datasets
 - Additional options on panel for customized Viewing

Cut to Named Clipboard

```

SPF/E EDIT L1 TSS01.JCL.CNTL (CAZRPT1) - 01.00          Columns 00001 00072
Command ==> cut to jobcard                          Scroll ==> PAGE
***** Top of Data *****
c00001 /TSS01P  JOB (), 'CAZRPT01 ', CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
000002 //*
000003 //*
000004 //STEP1   EXEC PGM=CAZPRINT
000005 //STEPLIB DD  DISP=SHR,DSN=CAZ.V1R1M0.SCAZAUTH
000006 //SYSABEND DD  SYSOUT=*
000007 //CAZLOG  DD  SYSOUT=*
000008 //SFILE01 DD  DISP=SHR,DSN=CAZ.APA.ALLANSC.R0018.ALLANSC1.SF
000009 //PDF1    DD  DISP=SHR,DSN=TSS01.PDF
000010 //CAZCTL  DD  *
000011 PROFILE 01 INPUT=SFILE01
000012 SECTION S01
000013 SECTION S02 Sequence=NAME
000014             OmitESD=Y
000015             OmitNUC=N
000016             OmitPLPA=N
000017 SECTION S03 Sequence=NAME
000018 SECTION S04
000019 SECTION S05 Intervals=45
000020 SECTION S06 Intervals=45
000021 SECTION S07

```

Jobcard is name of
Clipboard

Clipboard Status Panel

SPF/E----- ACTIVE CLIPBOARDS ----- JOBCARD saved
 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.

2 active clipboards out of 200
 Persistent clipboard repository TSS01.PLIST.LIBRARY
 Persistent clipboards marked by *



Clip-

Cmd	board	Records	Size	First line of text in clipboard
*..	JOBCARD	1	80	//TSS01P JOB (), 'CAZRPT01 ', CLASS=A, MSGCLASS=T, NO
*..	ZACK	995	133	1PP 5655-G53 IBM Enterprise COBOL for z/OS and OS/3

Clipboards can be named and saved between sessions

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

VA █ c A 02/015

Paste From Clipboard

```
Command ==> paste from jobcard
***** ***** Top
b00001 /*
000002 //GO EXEC PGM=BIGREAD,REGION=4K
```

```
SPF/E EDIT L1 TSS01.JCL.CNTL(RNBIGRED) - 01.03 1 from JOBCARD
Command ==> _____ Scroll ==> PAGE
***** ***** Top of Data *****
000001 //TSS01P JOB (),'CAZRPT01',CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
000002 /*
000003 //GO EXEC PGM=BIGREAD,REGION=4K
000004 /*GO EXEC PGM=BIGREAD,DYNAMNBR=20,
000005 /* PARM='/TEST(,,MFI%TRMLU002:*)'
000006 //STEPLIB DD DISP=SHR,DSN=KPHUME.COBOL.LOAD
000007 //SYSPRINT DD SYSOUT=*
000008 //SYSOUT DD SYSOUT=*
000009 //INFILE DD DSNAME=TSS08.BIGREAD.FILE,DISP=SHR
000010 //OUTFILE DD DSNAME=TSS01.BIGWRITE.FILE,DISP=SHR
000011 /*
***** ***** Bottom of Data *****
```

Additional Print Functions Available

```

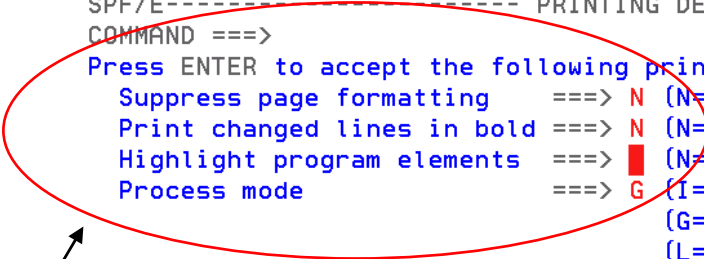
COMMAND   ===>
HOTBAR?
*FILTER*
  NAME      RENAME
p JES2
    
```

```

SPF/E----- PRINTING DEFAULTS ----- Enter required field
COMMAND ===>
Press ENTER to accept the following print options or the END key to cancel.
Suppress page formatting   ===> N (N=No, Y=Yes - file is already formatted)
Print changed lines in bold ===> N (N=No, Y=Yes)
Highlight program elements ===> ■ (N=No, Y=Yes - emphasize recognized items)
Process mode               ===> G (I=print immediately)
                           (G=Group requests for later printing)
                           (L=print direct to the ISPF LIST data set)

For process modes I and G:

CLASS                     ===> X (Sysout class)
DESTINATION ID           ===> (or remote station id)
WRITER name              ===> (Output WRITER)
Number of copies         ===> 1 (How many?)
Lines per page           ===> 60 (page size)
Keep in HOLD queue      ===> Y (Y=Yes, N=No)
FORM number              ===>
FCB name                 ===>
    
```



Additional Print Options Available.

will be on the separator page.

Enhanced EDIT Panel

```

Menu  Reflist  Refmode  Utilities  SCLM  Settings  Test  Help  Exit
-----
SPF/E-L1          EDIT - ENTRY PANEL
COMMAND ==> _____
HOTBAR?

ISPF LIBRARY:
Project  ==> _____  Alternate SCLM project  ==> _____
Group   ==> _____  ==> _____  ==> _____
Type    ==> _____
Member  ==> _____  (Blank or pattern for selection list)
Other data set, VSAM file, @H, or @L for 'SYS1.PROCLIB': ←
DSN/Cat. level ==> @h
Volume serial ==> _____  (Optional VOLSER or pattern for selection list)
Password      ==> _____  (If password protected)
Default process ==> E          (B=Browse, V=View, E=Edit, BF, EF, VF, or ?)
Execute TAILOR ==> N          (Y=Yes ,N=no, D=define commands)
EDIT/VIEW parameters:
SCLM LOCK      ==> YES        (Yes, No)
Initial Macro  ==> _____  Confirm Cancel/Move/Replace  ==> N (Y, N)
Profile Name   ==> _____  Action Bar in Edit/View      ==> N (Y, N)
Format Name    ==> _____  Highlight coloring in Edit/View ==> Y (Y, N)
                                           Exclusive access of viewed file ==> Y (Y, N)
Preserve VB record length => N  Mixed Mode (NLS DBCS char. set) ==> N (Y, N)
    
```

Commands provide easy access to recently used Datasets

Last Referenced Datasets for Easy Access

SPF/E ----- DATA SET HISTORY ----- Row 1 to 15 of 26
 COMMAND ==> SCROLL ==> CSR

To select a data set place the cursor on selected line and press ENTER or use the S line command. You can overwrite a line to alter your selection. To remove an entry blank it out. Press the END key to exit without selection.

DATA SET NAME	ACCESSED
'SYS1.PROCLIB'	09:08 05/09/13
'TSS01.JCL.CNTL'	09:06 05/09/13
'SYS1.PROCLIB(JE*)'	16:03 05/09/12
'SYS1.PROCLIB.PD'	15:51 05/09/12
'SYS1.PARMLIB.CB'	15:09 05/09/12
'SYS1.PARMLIB'	11:10 05/09/09
'SYS1.PPOPTION'	09:53 05/09/01
'SPFE.V5R8M1.V58ZAPS'	14:19 05/08/31
'SPFE.V5R8M1.V58PLIB'	14:16 05/08/31
'SPFE.V5R8M1.V58TLIB'	14:04 05/08/31
'SPFE.V5R8M1.V58PTFL'	14:01 05/08/31
'SPFE.V5R8M1.V58MLIB'	14:00 05/08/31
'SPFE.V5R8M1.V58CLIB'	13:46 05/08/31
'SPFE.TEST.MULTIVOL.VB'	11:58 05/08/30
'SPFE.TEST.MULTIVOL.VB12544'	11:57 05/08/30

Summary ISPF Productivity !!!!!

- **Enhanced action bar, pop-up windows, new functions, and point-and-shoot.**
- **Integrates seamlessly with ISPF**
- **Additional commands reduce the need to navigate to utility panels and invoke them separately**
- **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**

Polling Questions

- **Would you like more information on ISPF Productivity Tool?**
 - 1 – Yes
 - 2 – No

- **How many z programmer do you have at your shop?**
 - 1 / less than 50
 - 2 / 50 to 100
 - 3 / 100 to 250
 - 4 / over 250 programmers

Q & A Session



IBM ISPF Productivity Tool

IBM ISPF Productivity Tool

V5.8

 **DEMAND BUSINESS™**

The logo features the letters 'ON' in white, bold, sans-serif font inside a red, rounded square with a slight 3D effect. To the right of this square, the words 'DEMAND BUSINESS' are written in a bold, black, sans-serif font, followed by a trademark symbol (™).