

Interactive System Productivity Facility (ISPF)

ISPF Users Boot Camp - Part 1 of 2



SHARE 116 Session 8676

Peter Van Dyke IBM Australia SHARE 116, Winter 2011 pvandyke@au1.ibm.com

© 2011 IBM Corporation



Agenda

Overview

↓ What is ISPF?

↓ Components of ISPF?

The ISPF user interface

↓ Starting ISPF

↓ Primary Option Menu

↓ Panel format

↓ Navigating in ISPF

- \downarrow Using commands and function keys
- ↓ Getting help

 \checkmark Split screen mode

↓ Ending ISPF



Agenda...

ISPF Primary Options

- \checkmark Settings change the look and feel of ISPF
- \checkmark View look at data without changing it
- \checkmark Edit update and create data
- \downarrow Utilities perform system utility and data set management functions
- **↓**Others
 - Command, Foreground, Batch, Dialog Test, IBM Products, SCLM, Workplace
- How to learn more



What is ISPF?

Interactive System Productivity Facility

 \downarrow A set of panels, functions, and utilities that help you:

- Manage data stored in z/OS data sets
- Develop interactive applications called *dialogs*
- \downarrow An extension to TSO/E (Time Sharing Option of z/OS)
- \downarrow Provides services that complement those provided by TSO/E
- \downarrow Provides services to dialogs (applications) during their execution

ISPF is a multifaceted development tool set for the z/OS operating system. Since 1975, MVS programmers have used ISPF for host-based application development productivity. ISPF forms the basis of many TSO applications and provides extensive programmer oriented facilities as well.

TSO/E is a base element of the z/OS operating system that allows you to interactively work with the system. It is a tool with which you can:

- Develop and maintain programs in languages such as assembler, COBOL, FORTRAN, PASCAL, PL/I, REXX, and CLIST
- Process data
- Access the MVS operating system
- Communicate with other TSO/E users
- Create an office environment

ISPF can be seen as an extension to TSO/E. ISPF runs under TSO/E, and sometimes the acronym TSO/ISPF is used to describe the facility provided by these closely associated subsystems. The services provided by ISPF complement those of the host TSO/E system to provide full-screen interactive processing.

ISPF is similar to a control program or access method in that it provides services to dialogs (applications) during their execution. A dialog is the interaction between a person and a computer. It helps a person who is using an interactive display terminal to exchange information with a computer.



Components of ISPF

Dialog Manager

 \downarrow Provides services to dialogs and end users.

- \downarrow Composed of six elements:
 - Functions
 - Panels
 - Messages
 - Tables
 - File tailoring skeletons
 - Dialog variables

Dialog Manager provides services to dialogs and end-users. A *dialog* is the interaction between a person and a computer. It helps a person who is using an interactive display terminal to exchange information with a computer. The user starts an interactive application through an interface that the system provides. The dialog with the user begins with the computer displaying a panel and asking for user interaction. It ends when the task for which the interactions were initiated is completed. Dialog Manager is composed of six elements:

Functions: A function is a command procedure or a program that performs processing requested by the user. It can invoke ISPF dialog services to display panels and messages, build and maintain tables, generate output data sets, and control operational modes. They can be written as:

- REXX or CLIST command procedures
- Programs

Panel definitions: A panel definition is a programmed description of the panel. It defines both the content and format of a panel. Most panels prompt the user for input. The user's response can identify which path is to be taken through the dialog, as on a selection panel. The response can be interpreted as data, as on a data-entry panel. Message definitions: Message definitions specify the format and text of messages to users. A message can confirm that a user-requested action is in progress or completed, or it can report an error in the user's input.

Table: Tables are two-dimensional arrays that contain data and are created by dialog processing. They can be created as a temporary data repository, or they can be retained across sessions. A retained table can also be shared among several applications. The type and amount of data stored in a table depends on the nature of the application. File tailoring skeletons: Skeletons work like a fill-in-the-blank exercise. They take dialog variables and put them into a data set containing statements that control the output format. The output data set can be used to drive other processes. File skeletons are frequently used to produce job data sets for batch execution. Dialog variables: ISPF services use variables to communicate information among the various elements of a dialog application. ISPF provides a group of services for variable

management. Variables can vary in length from zero to 32K bytes.

Dialog Manager also controls the interaction of the dialog's elements. You could think of it as an extension of the host operating system. For example, ISPF can issue requests for:

- panels to be displayed, or
- screens to be formatted.

It can verify, process, and store input, and it can create output. ISPF can also function as a simplified data management system for small amounts of data stored in tables.

Dialog Manager also provides library access services that help you perform system utility functions on ISPF libraries or data sets. An edit recovery service helps you recover the changes you made to a data set before a system failure. The edit interface and browse interface services allow you to provide I/O to edit or browse data that is not in either a sequential or a partitioned data set (PDS).



Components of ISPF...

Program Development Facility (PDF)

 \downarrow Provides services to assist the dialog or application developer.

 \downarrow Includes services such as:

- EDIT
- BROWSE
- VIEW

 \checkmark Includes utilities to:

- Display and print library and data set member lists
- Compare data sets and search for strings of data
- Move, copy, and print library and data set members

ISPF Program Development Facility (PDF) provides services to assist the dialog or application developer. These include the edit and browse functions, data set and catalog utilities, TSO command interfaces, and library access services that can be combined in a dialog with any of the ISPF services. The library access services carry out functions involving members of a programming library. These functions include adding, finding, and deleting members, and displaying member lists.

PDF component services consist of BRIF (Browse Interface), BROWSE, EDIF (Edit Interface), EDIREC (edit recovery for EDIF), EDIT, VIEW, VIIF, and EDREC (edit recovery for EDIT and VIEW), along with the library access services.

BRIF Provides browse functions for data accessed through dialog-supplied I/O routines. It allows you to browse data other than partitioned data sets or sequential files, such as subsystem data and in-storage data, and to preprocess the data being browsed.

BROWSE Can be used to look at any ISPF library, concatenation of ISPF libraries, or data set that can be allocated by using the LMINIT service, and certain other data types not supported by ISPF. You can browse host data sets on the workstation or workstation files on the host.

EDIF Provides edit functions for data accessed through dialog-supplied I/O routines. It allows you to edit data other than partitioned data sets or sequential files, such as subsystem data and in-storage data, and to preprocess the data being browsed.

EDIREC Initializes an edit recovery table (ISREIRT) for use by the EDIF service and determines whether recovery from the EDIF service is pending.

EDIT Can be used to look at any ISPF library, concatenation of ISPF libraries, or data set that can be allocated by using the LMINIT service. The EDIT service provides an interface to the PDF editor and bypasses the display of the Edit Entry Panel on the host. You can also edit host files on the workstation or workstation files on the host.

EDREC Initializes an edit or view recovery table, determines whether recovery is pending, and takes the action specified by the first argument.

VIEW Functions exactly like the EDIT service, with the following exceptions:

- You must use the REPLACE or CREATE primary command to save data.
- When you enter the END primary command after altering a file in VIEW mode, you will be prompted to either save the changes or exit without saving them.

VIIF Provides edit functions for data accessed through dialog-supplied I/O routines. It enables you to view data other than partitioned data sets or sequential files, such as subsystem data and in-storage data, and to preprocess the data being viewed.



Components of ISPF...

Software Configuration Library Manager (SCLM)

 \downarrow Consists of two functional components:

- Library Manager used to manage source code
- Configuration Manager used to track all of the software components of an application, and how they fit together.
- ↓ SCLM-managed data stored and maintained in ISPF libraries (PDS)
- ↓ Used in the development of z/OS-based applications that employ traditional languages such as COBOL and PL/I
- ↓ Can be used in conjunction with SCLM Developer Toolkit for the development of Java/J2EE applications.

Software Configuration Library Manager (SCLM) is a software tool that helps you develop complex software applications. Throughout the development cycle, SCLM automatically controls, maintains, and tracks all of the software components of the application. You can lock the version being edited in a private library and then promote it. Use SCLM to create, control, maintain, and track software components for a project.

SCLM provides Library Management capabilities used to manage source code, such as for the Versioning and Auditing of changes, and Promotion which moves source from one set of staging libraries to the next.

SCLM provides Configuration Management capabilities, to track how all of the pieces of an application fit together - not just source, but objects, loads, test cases, documentation and other items. The Build function tracks and invokes the necessary compilers, assemblers and linkage editors.

SCLM-managed data is maintained and controlled on z/OS. The SCLM project database consists of a series of related ISPF libraries (partitioned data sets). These contain source and non-source software components. SCLM project definition and control information is contained in an assembled and linked PROJDEFS data set. SCLM project cross-reference and accounting data sets are VSAM clusters.



Components of ISPF...

Client/Server – Workstation Agent (WSA) Component

- \downarrow Enables you to run ISPF on a programmable workstation
- \downarrow Provides distributed editing for:
 - Editing host files on the workstation
 - Editing workstation files on the host
- \downarrow Dialogs can use GUI functions such as:
 - Push buttons
 - Check boxes
 - Screen resizing
 - GIF images

The Client/Server component, also known as the ISPF Workstation Agent (WSA) allows the users of ISPF applications to use a workstation running Windows or UNIX to display the panels of an ISPF application. It does this using the Graphical User Interface of the workstation. Because of this, there is no requirement to change your existing ISPF applications to run in a GUI environment.

Workstations can communicate with the host using either Transmission Control Protocol/Internet Protocol (TCP/IP) or Advanced Program-to-Program Communications (APPC). Functional enhancements to ISPF allow application developers to improve the appearance of the display on the GUI device.

Supported functions include:

- Push buttons
- Check boxes
- Action bars
- Mnemonics
- Unavailable choices
- Title bars
- Screen resizing

The WSA also allows you to edit host data on your workstation and workstation data on the host. In ISPF this is called distributed editing.



Starting ISPF

Log on to TSO

	TSO/E LOGON	
7		
Enter LOGON parameters	below:	RACF LOGON parameters:
Userid ===> SIROED		
Password ===>		New Password ===> _
Procedure ===> ISPFPROC		Group Ident ===>
Acct Nmbr ===> IBMGSA		
Size ===> 64000		
Perform ===>		
Command ===>		
Enter an 'S' before eac	ch option desired	below:
-Nomail	-Nonotice	-Reconnect -OIDcard
PF1/PF13 ==> Help PF3/P	PF15 ==> Logoff	PA1 ==> Attention PA2 ==> Reshow

When the READY prompt appears, type ISPF or PDF and press Enter



March 2011

To start ISPF:

- Log on to TSO.

When the READY prompt appears, type ISPF or PDF and press Enter.

- If your installation has established an alias for ISPF, such as SPF, you can enter that instead.

The ISPF and PDF commands are aliases of ISPF module ISRPCP. When you run ISRPCP or one of its aliases with no parameters, ISPF is started through this command:

ISPSTART PANEL(default_primary_panel) NEWAPPL(ISR)

The default primary panel is usually ISR@PRIM, the ISPF Primary Option Menu .

You can specify any of the ISPSTART parameters when invoking ISPF, PDF, or ISRPCP. However, if you do this you must ensure that you specify *all* the parameters that ISPSTART needs to run your application in the correct environment. This is because only those parameters you specify are passed to ISPSTART. For example, if you specify:

ISPF NEWAPPL(ABC)

ISPF is invoked with this command:

ISPSTART NEWAPPL(ABC)

Note that in this case ISPF does not pass PANEL(ISR@PRIM), part of its normal default string, to ISPSTART. Because the ISPSTART command generated does not contain a PANEL(...), PGM(...) or CMD(...) keyword, there is no primary panel to display.



Primary Option Menu

The Primary Option Menu panel is the first panel you see when you start ISPF

<u>M</u> enu <u>U</u> tilitie	es <u>C</u> ompilers <u>O</u> ption	ns <u>S</u> tatus <u>H</u> elp			
	ISPF Pri	mary Option Menu			
<pre>0 Settings 1 View 2 Edit 3 Utilities 4 Foreground 5 Batch 6 Command 7 Dialog Test 9 IBM Products 10 SCLM 11 Workplace</pre>	Terminal and user Display source data Create or change so Perform utility fur Interactive langua Submit job for land Enter TSO or Works Perform dialog tes IBM program develop SW Configuration L ISPF Object/Action	parameters a or listings purce data nctions ge processing guage processing tation commands ting oment products ibrary Manager Workplace	User ID . Time Terminal. Screen Language. Appl ID . TSO logon TSO prefix System ID MVS acct. Release .	: SIROED : 14:45 : 3278 : 1 : ENGLISH : ISR : ISPF : SIROED : ISD1 : IBMGSA : ISPF 5.6	
Enter X to Terminate using log/list defaults					
Option ===> F1=Help F2 F7=Backward F8	2=Split F3=Exit 3=Forward F9=Swap	F4=Left F10=Actions	F5=Right F F12=Cancel	-6=Expand	
ISPF Users Bo	ot Camp - Part 1 of 2	Session 8676 Ma	arch 2011	© 2011 IBM (

The ISPF Primary Option Menu panel is the first panel that displays when you start ISPF. If your installation has a customized ISPF Primary Option Menu, the menu might not contain all of options shown here, or it might contain certain installation-specific options.

The options available on the default ISPF Primary Option Menu are:

0 Settings displays and changes selected ISPF parameters, such as terminal characteristics and function keys.

1 **View** displays data using the View or Browse function. You can use View or Browse to look at (but not change) large data sets.

2 Edit allows you to create or change source data such as program code and documentation using the ISPF full-screen editor.

3 Utilities perform library and data set maintenance tasks, such as moving or copying library or data set members, displaying or printing data set names and volume table of contents (VTOC) information, comparing data sets, and searching for strings of data.

4 Foreground calls IBM language processing programs in the foreground.

5 Batch calls IBM language processing programs as batch jobs. ISPF generates Job Control Language (JCL) based on information you enter and submits the job for processing.

6 Command calls TSO commands, CLISTs, or REXX EXECs under ISPF.

7 Dialog Test tests individual ISPF dialog components, such as panels, messages, and dialog functions (programs, commands, menus).

9 **IBM Products** allows you to select other installed IBM program development products on your system.

10 SCLM controls, maintains, and tracks all of the software components of an application.

11 Workplace gives you access to the ISPF Workplace, which combines many of the ISPF functions onto one object-action panel.

X EXIT leaves ISPF using the log and list defaults.



Panel format

 \mathbf{V} A panel is a predefined display image that you see on a display screen

 \downarrow ISPF formats all panels to fit on a 24-line by 80-character screen

 \checkmark ISPF has three basic types of panels:

- •Menus (selection panels)
- •Data-entry panels
- •Scrollable data panels

A *panel* is a predefined display image that you see on a display screen. ISPF formats all panels to fit on a 24-line by 80-character screen. On a 3278 Model 3 or 4, data that you can scroll occupies the full length of the screen (32 or 43 lines). On a 3278 Model 5, ISPF normally displays information in *default mode*; that is, 24 lines by 80 characters, with the same size characters as other models. "Browse" and "Edit" data that is wider than 80 characters is displayed with the smaller *native mode* characters, that is, up to 132 per line. You can use the Settings option (0) to override the automatic switching of modes.

When using ISPF, you see three basic types of panels:

- Menus (selection panels)
- Data-entry panels
- Scrollable data displays.



Panel format ...

If the command/option line is positioned at the top of the screen, the first lines of the panel are generally formatted as shown:



The Action Bar area (line 1) contains action bar choices that may be selected by positioning the cursor on the action bar choice and pressing Enter. A pull-down menu will then appear. Action bars give you one way to move through ISPF. Most ISPF panels have action bars at the top; the choices appear on the screen in white by default.

The Action Bar Separator area (line 2) is a visual divider between the action bar and the rest of the panel.

The Title area (line 3) identifies the function being performed and, where appropriate, library or data set information.

The Short Message area (line 3) is used to indicate:

- Current line (browse) and column positions (browse, view and edit)
- Current row position in table display
- Successful completion of a processing function
- Error conditions (can be accompanied by audible alarm)

The Command/Option line may appear next (line 4) or near the bottom of the panel. The command line is used to enter a command. On a menu (selection panel), it may be used to enter either a command or an option.

The Long Message area displays an explanation of error conditions when you enter the HELP command.



Panel format ...

And the last lines of the panel generally display the function keys:



13

The Function Keys area displays settings for the function keys. These settings are controlled through the Function keys pull-down on the action bar on the ISPF Settings panel.

	-	
		100 C
_		
_		

Panel format ...

But, if the command/option line is positioned at the bottom of the screen, the first lines of the screen are generally formatted as shown:

1	<u>M</u> enu	<u>U</u> tilities	<u>C</u> ompilers	<u>O</u> ptions	<u>S</u> tatus	<u>H</u> elp	
			IS	PF Primar	y Option	Menu	Invalid option

And the last lines are generally formatted like this:

The option th Option ===>	at was entere	ed was not v	valid.		
F1=Help	F2=Split	F3=Exit	F4=Left	F5=Right	F6=Expand
F7=Backward	F8=Forward	F9=Swap	F10=Actions	F12=Cancel	

The position of the command line and the long message area is controlled by the ISPF parameters on the ISPF Settings panel.

Command line at bottom

Specifies that the command line is to appear at the bottom of each logical screen. If you have specified that the panel should be displayed in CUA mode, the command line placement defaults to the bottom. If you deselect this field, the command line appears as specified in the panel definition statements. Unless indicated in the panel definition, it appears at the top of the panel. When you select the Command line at bottom option, the following changes take place:

- The command line moves to the last line of the logical screen or the line above the function keys depending on the CUA mode setting.
- Each line that follows the command line shifts up one line.
- The long message overlays the line above the new command line location.

Panel display CUA mode

Specifies that panels be displayed in CUA mode. This selection also affects how the long message line, command line, and function keys are displayed.



Panel format - menus

A menu, or selection panel, allows you to type a number or letter in the Option field and press Enter to select one of the listed items.

This example shows the selection of option 0 (Settings) from the ISPF Primary Option menu.



March 2011

A menu, or selection panel, allows you to type a number or letter in the Option field and press Enter to select one of the listed items. The number or letter can be typed in either uppercase or lowercase. Allowable numbers and letters are shown in high intensity. You can also enter ISPF commands.

A typical dialog organization starts with display of the highest menu, called the primary option menu. User options selected from the primary option menu can result in the call of a function or the display of a lower-level menu. Each lower-level menu can also cause functions to receive control or still other menus to be displayed.



Panel format – data-entry panels

A data-entry panel is a panel on which you specify information.

This example shows the entry of ISPF library information in the View Entry panel.



A data-entry panel is a panel on which you specify information, such as data set names, job statement parameters, and language processing options. If you do not enter a required value or if you enter inconsistent values, ISPF prompts you with a message.

Some data-entry fields retain their previous values. If so, the next time you use the panel, you do not have to type them again. Just press Enter. If you do not want those values, type over them and then press Enter.

The retained values come from your user profile, which ISPF automatically builds and maintains across sessions.



Panel format – scrollable data panels

Information is displayed in scrollable format when there is too much data to fit on the logical screen, as in this example of a Browse panel.

Utilities Compilers Help Menu You control the scroll SIROED.DEV1.SOURCE(FLM01MD1) - 01.00 BROWSE Line 00000000 Col 001 080 amount using the PAGE Scroll field. *************** Top of Data ******* ***** 00010000 ROUTINE INITIALIZATION 00020000 00021000 You can use these 5647-A01 (C) COPYRIGHT IBM CORP. 1987 00022000 scroll commands to 00023000 00030000 scroll up and down. FLM81MD1 CSECT 00040000 28 (R15) * BRANCH AROUND ID/DATE/TIME * 00050000 CL8'FLM01MD1' DC MODULE ID 00060000 And you can use these CL8'&SYSDATE' DC ASSEMBLY DATE 00070000 CL8' &SYSTIME' DC 00080000 ASSEMBLY TIME scroll commands to R14, R12, 12 (R13) STM * SAVE ALL REGS BUT R13 00090000 ж R4,R13 00100000 LR * SAVE R13 IN R4 scroll left and right. R12, R15 GET PROGRAM PTR 00110000 LR * RESTORE R0-R12 LΜ R0, R12, 20 (R13) 00120000 * RETURN TO CALLER BR R14 00130000 00140000 F7=Up F2=Split F3=Exit F5=Rfind F8=Down F9=Swap F11=Right) F12=Cancel 0=Le

March 2011

Information is displayed in scrollable format when there is too much data to fit on the logical screen. You can scroll up and down or left and right using scroll commands. When scrolling is allowed, a scroll amount is commonly displayed at the top of the screen. This amount determines the number of lines, or columns, scrolled with each use of a scroll command. To change the scroll amount, move the cursor to the scroll field and type over the displayed amount. Valid scroll amounts are:

ZXSMIN-ZXSMAX

The minimum and maximum scroll values. If you specify a scroll amount of **0**, no scrolling occurs.

- **PAGE** Specifies scrolling by one page. For scrolling purposes, a page is defined as the amount of information currently visible on the logical screen.
- DATA For up and down scrolling, specifies scrolling by one line less than a page. For left and right scrolling, it is one column less than a page.
- HALF Specifies scrolling by half a page.
- MAX Specifies scrolling to the top, bottom, left margin, right margin, beginning of field or end of field, depending upon which scrolling command is used and the current cursor position.
- **CSR** Specifies scrolling based on the current position of the cursor. The line or column indicated by the cursor is moved to the top, bottom, left margin, or right margin of the screen, depending upon which scrolling command is used.



Navigating in ISPF

You can navigate (move around) in ISPF using the following methods:

 \mathbf{V} Using the command/option line

 \checkmark Selecting a choice from one of the pull-downs on the action bar

↓Selecting one of the point-and-shoot fields



Navigating in ISPF – using the command/option line

From a menu you can type an option selection number or letter.

In this example, we're selecting the Utilities option.

Θ	Settings	Terminal and user parameters	User ID . : SIROED		
1	View	Display source data or listings	Time : 09:15		
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	Submit job for language processing Appl ID . : ISR		
6	Command	Enter TSO or Workstation commands	TSO logon : ISPF		
7	Dialog Test	Perform dialog testing	Perform dialog testing TSO prefix: SIROED		
9	IBM Products	IBM program development products	System ID : ISD1		
10	SCLM	SW Configuration Library Manager	MVS acct. : IBMGSA		
11	Workplace	ISPF Object/Action Workplace Release . : ISPF 5.			
		h			
Enter X to Terminate using log/list defaults					

<u>M</u> enu <u>H</u> elp		
Option ===>	Utility Selection Panel	
1 Library	Compress or print data set. Print index listing. Print, rename, delete, browse, edit or view members	
2 Data Set	Allocate, rename, delete, catalog, uncatalog, or display information of an entire data set	
3 Move/Copy	Move, or copy members or data sets	
4 Dslist	Print or display (to process) list of data set names. Print or display VTOC information	
5 Reset	Reset statistics for members of ISPF library	
6 Hardcopy	Initiate hardcopy output	
7 Transfer	Download ISPF Client/Server or Transfer data set	
8 Outlist	Display, delete, or print held job output	
9 Commands	Create/change an application command table	The littlities meaning a displayed
11 Format	Format definition for formatted data Edit/Browse	I ne utilities menu is displayed.
12 SuperC	Compare data sets (Standard Dialog)	
13 SuperCE	Compare data sets Extended [Extended Dialog]	
14 Search-For	Search data sets for strings of data (Standard Dialog)	
15 Search-Fore	Search data sets for strings of data Extended (Extended Vialog)	
FI=Help FZ=Backuperd	FZ=Split F3=Exit F4=Left F5=Right F6=Expand	
FY-Backward	FOFFOFWARD F9-SWAP F10-HCtions F12-Cancet	

19

Session 8676



Navigating in ISPF – using the command/option line...

To bypass secondary option selections, type two selections separated by a period.

In this example, we're selecting option 4 from the Utilities menu.

	<u>M</u> enu <u>U</u> tilitie	s <u>C</u> ompile	ers <u>O</u> ptions	s <u>S</u> tatus <u>H</u> elp		
0p	Option == (3.4 ISPF Primary Option Menu					
0 1 2 3 4 5 6 7 9 10 11	Settings View Edit Utilities Foreground Batch Command Dialog Test IBM Products SCLM Workplace	Terminal Display 9 Create on Perform 0 Interact: Submit jo Enter TSO Perform 0 IBM progg SW Confi ISPF Obje	and user pa source data - change sou tility functive language b for langu o or Worksta dialog test ram developr upration Lift ect/Action I	arameters or listings urce data tions a processing age processing ation commands ing ment products orary Manager Workplace	User ID Time Termina Screen. Languag Appl ID TSO log TSO pre System MVS acc Release	. : SIROED . : 09:15 1. : 3278 . : 1 e. : ENGLISH . : ISR on : ISPF fix: SIROED ID : ISD1 t. : ISPF 5.6
	Enter X to Terminate using log/list defaults					
F	1=Help F2 7=Backward F8	=Split =Forward	F3=Exit F9=Swap	F4=Left F10=Actions	F5=Right F12=Cancel	F6=Expand

<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>H</u> elp	
Data Set List Utility	
Uption ===>	
More: +	
blank Display data set list P Print data set list	
V Display VIUC information PV Print VIUC information	
Enter one or both of the parameters below: Dsname Level <u>SIROED</u> Volume serial	
Data set list options	
Initial View <u>1</u> 1. Volume Enter "/" to select option	
2. Space 📝 Confirm Data Set Delete	
3. Attrib 🛛 🖉 Confirm Member Delete	
4. Total 🛛 🔶 Include Additional Qualifiers	
🔶 Display Catalog Name	The Data Set List Utility panel is
When the data set list is displayed, enter either:	
"/" on the data set list command field for the command prompt pop-up,	displayed.
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or	
F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand	
F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel	

Session 8676

March 2011
Many options have a secondary list of options. To bypass the second menu, type two selections, separating them with a period, on the ISPF Primary Option Menu. For example, entering 3.4 on the ISPF Primary Option Menu is the same as entering 3 on the ISPF Primary Option Menu and 4 on the Utility Selection Panel.

An even faster way to select an option is to bypass both the ISPF Primary Option Menu and the secondary menus. To do this, include your options in the ISPF (or alias) command. For example:

- **ISPF 2** To go directly to the Edit option.
- **ISPF 3.4** To go directly to the Data Set List utility (3.4).



Navigating in ISPF – using the command/option line...

From any panel, you can type an ISPF command on the command/option line.

In this example, we're entering the SETTINGS command.

k

Enter "/" to select option

Command line at bottom Panel display CUA mode

Long message in pop-up Tab to action bar choices Tab to point-and-shoot fields

Session Manager mode

Jump from leader dots Edit PRINTDS Command Always show split line Enable EURO sign

Member list options

Restore TEST/TRACE options

Command ===>

Options

ISPF Settings



ISPF Users Boot Camp - Part 1 of 2

| Session 8676

-		= =
_	_	= 7 =

Navigating in ISPF – using the command/option line...

Use the jump (=) function to jump directly to any valid option from the primary option menu currently in effect.

Here we're jumping from the Settings panel to the Library Utility panel.



<u>M</u> enu <u>R</u> efList <u>U</u> tilities <u>H</u> e	lp
Option ===>	Library Utility
	More:
blank Display member list	I Data set information B Browse member
C Compress data set	S Short data set information D Delete member
X Print index listing	E Edit member R Rename membe
L Print entire data set	V View member P Print member
ISPF Library: Project <u>SIROED</u> Group <u>DEV1</u> Type <u>SOURCE</u> Member	Enter "/" to select option / Confirm Member Delete _ Enhanced Member List If B, D, E, P, R, V, or blank selected) If P. selected)
Other Partitioned or Sequentia Data Set Name	l Data Set:
Volume Serial	(If not cataloged)
F1=Help F2=Split F3= F7=Backward F8=Forward F9=	Exit F4=Left F5=Right F6=Expand Swap F10=Actions F12=Cancel



March 2011

22

The jump function allows you to go directly to any valid option from the primary option menu currently in effect. To use the jump function, enter the option on the command line or in the command field of any panel, preceded by an equal sign and followed by a blank. For example: **Command ===> =3.1** takes you directly to the first suboption of option 3 on the primary option menu in effect.

The action is as follows:

- If not entered on a primary option menu, the jump function causes repeated END commands to be simulated until a primary option menu is encountered. What follows the equal sign is then used on the primary option menu, and pressing of the Enter key is simulated. The primary option menu is not displayed.
- If entered on a primary option menu, the jump function equal sign is ignored and the specified option is selected.

For convenience, you can enter a jump function in two other places:

- Any field that is preceded by an arrow. The arrow must consist of at least two equal signs followed by a greater-than sign (==>). Also, the arrow must immediately precede the input attribute byte.

Any field preceded by leader dots (that is, ... or . .). ISPF looks at the three characters preceding the field; they must be either three consecutive dots or two dots separated by a blank.



Navigating in ISPF – using the action bar

The action bar provides another means of navigating.

When you position the cursor on an action bar choice and press enter, a pull-down menu is displayed. Enter the number of the pull-down choice you want.

	Me <mark>nu ∐</mark> tilitie	s <u>C</u> ompilers <u>O</u> pt	ions <u>S</u> tatus <u>H</u> elp		
0.0	tion ===)	ISPF P	rimary Option Menu		ł
0 1 2 3 4 5 6 7 9 10 11	Settings View Edit Utilities Foreground Batch Command Dialog Test IBM Products SCLM Workplace	Terminal and use Display source d Create or change Perform utility Interactive lang Submit job for la Enter TSO or Worl Perform dialog to IBM program deve SW Configuration ISPF Object/Actio	r parameters ata or listings source data functions anguage processing anguage processing station commands esting lopment products Library Manager on Workplace	User ID Time Terminal Screen. Language Appl ID TSO logo TSO pref System I MVS acct Release	. : SIROED . : 07:22 . : 3278 . : 1 . : ENGLISH . : ISR n : ISPF ix: SIROED D : ISD1 . : IBMGSA . : ISPF 5.6
	Enter X to	Terminate using l	og/list defaults		
F	1=Help F2 7=Backward F8	=Split F3=Exi =Forward F9=Swa	t F4=Left 5 F10=Actions	F5=Right F12=Cancel	F6=Expand

Menu	Utilities Compilers (Options Status Help	
11 2 3	. Settings . View Edit	Primary Option Menu	X
4 5 6 7 8 9	. ISPF Command Shell . Dialog Test . Other IBM Products . SCLM . ISPF Workplace . Status Area . Exit	er parameters data or listings e source data functions guage processing language processing rkstation commands	User ID. : SIROED Time : 07:22 Terminal. : 3278 Screen : 1 Language. : ENGLISH Appl ID. : ISR TSO logon : ISPF
I IBM 10 SCLI 11 Worl	Products IBM program d M SW Configurat kplace ISPF Object/A	testing evelopment products ion Library Manager ction Workplace	TSO prefix: SIROED System ID : ISD1 MVS acct. : IBMGSA Release . : ISPF 5.6
Eı	nter X to Terminate using	g log/list defaults	
F1=He F7=Ba	lp F2=Split F3= ckward F8=Forward F9=:	Exit F4=Left F! Gwap F10=Actions F1:	5=Right F6=Expand 2=Cancel

March 2011

Action bars provide another means of navigating in ISPF. An action bar is the area at the top of an ISPF panel that contains choices that give you access to actions available on that panel. When you select an action bar choice, ISPF displays a pull-down menu.

A pull-down menu is a list of numbered choices extending from the selection you made on the action bar. The action bar selection is highlighted. You can select an action either by typing in its number and pressing Enter or by selecting the action with your cursor. ISPF displays the requested panel. If your choice contains an ellipsis (...), ISPF displays a pop-up window. When you exit this panel or pop-up, ISPF closes the pull-down and returns you to the panel from which you made the initial action bar selection.

To select a choice from a pull-down menu, type its number in the entry field (underlined) and press Enter or select the choice. To cancel a pull-down menu without making a selection, press F12 (Cancel).

Note: If a choice displays in blue (the default) with an asterisk as the first digit of the selection number, the choice is unavailable and cannot be selected. This could be because recursive selection is not permitted or because the choice represents the current state.



Navigating in ISPF – using the action bar...

You can use the ACTIONS command (or function key) with or without a mnemonic to move the cursor to the action bar. When you enter the command and press Enter, the corresponding pull-down menu is displayed.

<u>M</u> enu <u>U</u> tilitie	s <u>C</u> ompilers <u>O</u> ptions	s <u>S</u> tatus <u>H</u> elp		¥
Option ===) acti	ISPF Prima	ary Option Menu		
option>				
0 Settings	Terminal and user pa	arameters	User ID .	: SIROED
1 View	Display source data	or listings	Time	: 07:22
2 Edit 3 Utilities	Perform utility fund	tions	Screen	- 1
4 Foreground	Interactive language	processing	Language.	ENGLISH
5 Batch	Submit job for langu	age processing	Appl ID .	: ISR
6 Command	Enter TSO or Worksta	ation commands	TSO logon	: ISPF
7 Dialog Test	Perform dialog testi	ing	TSO prefix	: SIROED
9 IBM Products	IBM program developm	ent products	System ID	: ISD1
11 Workplace	ISPE Object/Action 4	Jorkplace	Release .	: ISPE 5.6
11 1011001000		ion np tooc	netedbe i	
Enter X to	Terminate using log/1	list defaults		
F1=Help F2	=Split F3=Exit	F4=Left	F5=Right F	6=Expand
F7=Backward F8	=Forward F9=Swap	F10=Actions	F12=Cancel	

Menu Utilities Compilers	<mark>Options</mark> Status Help	•
Option ===> O Settings Terminal a 1 View Display so 2 Edit Create or	<pre>1. General Settings 2. CUA Attributes 3. Keylists 4. Point-and-Shoot 5. Colors 6. Dialog Test appl ID ina</pre>	. : SIROED . : 07:22 1. : 3278
3UtilitiesPerform ut4ForegroundInteractive5BatchSubmit job6CommandEnter TSO or7Dialog TestPerform dia9IBM ProductsIBM program10SCLMSW Configure11WorkplaceISPF Object.	language processing Language for language processing Appl ID - Workstation commands TSO log log testing TSO pre development products System ation Library Manager MVS acc 'Action Workplace Release	. : 1 e. : ENGLISH . : ISR on : ISPF fix: SIROED ID : ISD1 t. : IBMGSA . : ISPF 5.6
Enter X to Terminate us	ing log/list defaults	
F1=Help F2=Split F3 F7=Backward F8=Forward F4	3=Exit F4=Left F5=Right 3=Swap F10=Actions F12=Cancel	F6=Expand

ISPF Users Boot Camp - Part 1 of 2

| Session 8676

March 2011

There are several ways to move the cursor to the action bar:

- Use the cursor movement keys to manually place the cursor on an action bar choice.
- Type ACTIONS on the command line and press Enter to move the cursor to the first action bar choice.
- Press F10 (Actions) or the Home key to move the cursor to the first action bar choice.
- If mnemonics are defined for action bar choices, you can enter the ACTIONS command and the mnemonic letter that corresponds to an underscored letter in the action bar choice text, or you can enter the mnemonic letter that corresponds to an underscored letter in the action bar choice text, and press the function key assigned to the ACTIONS command. This results in the display of the pull-down menu for that action bar choice

_		= =
	_	

Navigating in ISPF – using point-and-shoot fields

Point-and-shoot text fields are cursor-sensitive. Position the cursor on the field and press Enter.

Here we're selecting the View option from the Primary Option Menu.

<u>M</u> enu <u>U</u> tilitie	s <u>C</u> ompilers	<u>O</u> ptions	<u>S</u> tatus <u>H</u> elp		
Option ===>	I	SPF Primar	y Option Menu	ı	
0 Settings Vidw 2 Edt 3 Utilities 4 Foreground 5 Batch 6 Command 7 Dialog Test 9 IBM Products 10 SCLM 11 Workplace	Terminal an Display sou Create on c Perform uti Interactive Submit job Enter TSO o Perform dia IBM program SW Configur ISPF Object	d user par rce data o hange sour lity funct language for language r Workstat log testin developme ation Libr /Action Wo	ameters r listings ce data ions processing ge processing ion commands g nt products ary Manager rkplace	User ID Time Termina Screen. Languag Appl ID TSO log TSO pre System MVS acc Release	. : SIROED . : 10:46 1. : 3278 . : 1 e. : ENGLISH . : ISR on : ISPF fix: SIROED ID : ISD1 t. : IBMGSA . : ISPF 5.6
Enter X to	Terminate us	ing log/li	st defaults		
F1=Help F2 F7=Backward F8	=Split F =Forward F	3=Exit 9=Swap	F4=Left F10=Actions	F5=Right F12=Cancel	F6=Expand

<u>M</u>enu <u>R</u>efList R<u>e</u>fMode <u>U</u>tilities <u>W</u>orkstation <u>H</u>elp View Entry Panel Command ===> More: ISPF Library: <u>SIROED</u> Group <u>DEV1</u> Type <u>SOURCE</u> Member . . . (Blank or pattern for member selection list) K Other Partitioned, Sequential or VSAM Data Set: Data Set Name . . . Volume Serial . . . _____ (If not cataloged) Workstation File: File Name . . . Options Confirm Cancel/Move/Replace Initial Macro Profile Name _ Browse Mode Format Name View on Workstation Ζ Data Set Password . . Warn on First Data Change F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel

March 2011

Point-and-shoot text fields are cursor-sensitive; if you select a field, the action described in that field is performed. For example, if you select Option 1, View, ISPF displays the View Entry panel.

Note: If you have entered a command on the command line, this command is processed before any point-and-shoot command unless you are running in GUI mode.

Note: You can use the Tab key to position the cursor to point-and-shoot fields by selecting the "Tab to point-and-shoot fields" option on the ISPF Settings panel (Option 0).



Using commands and function keys

ISPF provides commands for commonly used functions. You can enter a command by:

 \checkmark Typing the command in the command/option field and then pressing Enter

- \checkmark Pressing a function (F) key that has been assigned a command
- \checkmark Selecting a pull-down choice from an action bar
- \checkmark Selecting a point-and-shoot field on a panel

26

-	_	
	-	
_		
_		

Using commands and function keys...

ISPF provides over 80 system commands. Some of the more commonly used commands include:

ACTIONS	END	PANELID	START
CANCEL	EXIT	PHSFOW	SWAP
CRETRIEV	KEYS	RETRIEVE	TSO
DTEST	NRETRIEV	SPLIT	TUTOR

Included in these system commands are the scroll commands:

BACKWARD*	BOTTOM**	DOWN	FORWARD**
LEFT	RIGHT	TOP*	UP

* Alias for the UP command

** Alias for the DOWN command

ISPF also supports user or site commands, application commands, and function commands.

In addition to ISPF system commands, there are several other types of commands in ISPF:

User or Site commands	Defined by the site administrator (in the ISPF Configuration table) and available to a user, in addition to the system commands.
Application commands	Available to a user throughout the processing of an application.
Function commands	Meaningful only while using a particular function within an application.

System, user, site, and application commands are defined by using command tables. The DM component processes these commands. System, user, site, and application command processing is generally transparent to the dialog functions. For example, HELP is a system command.

Function commands include all commands that are processed by a dialog function. For example, the NUMBER command within the ISPF Editor (option 2) is a function command.



Using commands and function keys...

<u>M</u> enu <u>U</u> tiliti	es <u>C</u> ompile	ers <u>O</u> ptions	s <u>S</u> tatus <u>H</u> elp		
Option ==> dsl	ist *;botto	TSRE Prima	ary Option Menu		
0 Settings 1 View 2 Edit 3 Utilities 4 Foreground 5 Batch 6 Command 7 Dialog Test 9 IBM Products 10 SCLM 11 Workplace	Terminal Display & Create of Perform (Interact Submit jo Enter TS(Perform (IBM prog SW Config ISPF Objo	and user pa source data change sou utility fund bb for langu or Worksta dialog testi dialog testi guration Lit act/Action L	arameters or listings urce data otions a processing uage processing ation commands ing ment products orary Manager Norkplace	User ID Time Terminal Screen. Language Appl ID TSO logo TSO pref System I MVS acct Release	. : SIROED . : 06:02 . : 3278 . : 1 . : ENGLISH . : ISR n : ISPF . : SIROED D : ISD1 . : IBMGSA . : ISPF 5.6
Enter X to	Terminate	using log/1	list defaults		
F1=Help F F7=Backward F	2=Split 8=Forward	F3=Exit F9=Swap	F4=Left F10=Actions	F5=Right F12=Cancel	F6=Expand

You can enter multiple commands in a single interaction. ISPF processes the commands as if you had entered them one after the other.

Separate stacked commands with a delimiter character (default is a semicolon).

<u>M</u> enu <u>O</u> ptions <u>V</u> io	ew <u>U</u> tilities	<u>C</u> ompilers	<u>H</u> elp	
DSLIST - Data Sets Command ===>	Matching SIROE	D.*		Row 92 of 105
Command - Enter "/"	to select act	ion	Message	Volume
SIROED.SIR	DED.FMN510.TST	LOAD		D\$US03
SIROED. SRCI	HDSL.LIST			D\$US48
SIROED. SRCI	HFOR.LIST			D\$US12
SIROED.SYS:	2.BRODCAST			D\$US06
SIROED.TES	T.ARCHDEF			D\$US02
SIROED.TES	T.LARGE.RRDS			*VSAM*
SIROED.TES	LARGE, RRDS, D	АТА		D\$US36
SIROED.TES	T.LMAP			D\$US01
SIROED.TES	T.LOAD			D\$US20
SIROED.TES	T.OBJ			D\$US03
SIROED.TES	T.QSAM.ODO			D\$US08
SIROED.TES	T. SOURCE			D\$US03
SIROED.TES	T.SOURCLST			D\$US03
SIROED.TES	TDATA.QSAM.VB			D\$US08
*****	********** End	of Data Se	t list **********	*****
F1=Help F2=Spli	t F3=Exit	F5=Rfind	F7=Up F8=Dou	ın F9=Swap
F10=Left F11=Righ	t F12=Cancel			

March 2011

28

You can stack commands to be run by entering a special delimiter between the commands. For example, entering: ===> dslist *;bottom causes the DSLIST command to run first. When it completes, the data set list is scrolled to the bottom. The default delimiter is a semicolon. Use the Settings option (0) to change the delimiter.

Commands cannot be stacked following the:

- HELP command. HELP processing deletes any remaining commands in the stack.
- RETRIEVE command.

_	_	
		the second se
	-	
_		
_		

Using commands and function keys...

Function keys are used to simulate command entry:

 $\mathbf{\psi}$ Use the function keys for command entry to save time and reduce typing errors.

 \checkmark Default function key definitions are already assigned to many of the frequently used system commands.

 \downarrow Function key assignments and labels for an application panel can be defined and stored within a keylist. Most ISPF panels have keylists.

 ψ You can type information into the command/option field before pressing a function key. The key definition is concatenated ahead of whatever you typed into the command/option field to form the complete command.

Under ISPF, function keys are not automatically assigned to special functions. You equate each function key to a character string. When you press a function key, it simulates command entry. The processing is the same as if you had typed the character string in the command field and pressed the Enter key.

Note: On a 3270 display, the horizontal divider line that separates the logical screens is not considered part of either logical screen. If the cursor is placed on this horizontal divider line and a function key is pressed, the result is the same as if the ENTER key was pressed and the cursor is positioned on the active logical screen's command line.

A dialog function cannot distinguish the difference between a command entered by a function key and a command entered by typing in the command field. If the character string with which the function key is equated is longer than the screen's command field, the string is truncated without warning.

If you type information on the command line and then press a function key, the function key definition, followed by a blank, is concatenated ahead of the contents of the command field. For example, suppose F7 is equated to the character string **UP**. If you type **4** in the command field and then press F7, the results are exactly the same as if you had typed **UP 4** in the command field and pressed the Enter key.

Function keys can be displayed at the bottom of a panel. Using the FKA or PFSHOW command, you can display either the long or short form of the keys, or remove the keys from the panel.



Using commands and function keys...

		— Keylist Util	ity ——		
<u>F</u> ile					
PRIVATE Command ===	ISF	R Keylist ISRSAB	Change	Row 1 to 10 of Scroll ===> <u>PAGE</u>	
Make change	s and then seled	t File action b	ar.		
Keylist Hel	p Panel Name	ISRSABH_			
Key D	efinition			Format	Label
F1 <u>-</u>	IELP			SHORT	<u>Help</u>
F2 <u>s</u>	PLIT			LONG	Split
F3 <u>E</u>	TIX			SHORT	Exit
F4 <u>L</u>	EFT			SHORT	<u>Left</u>
F5 <u>F</u>	IGHT			SHORT	<u>Right</u>
F6 <u>E</u>	XPAND			SHORT	Expand
F7 <u>E</u>	ACKWARD			LONG	Backward
F8 <u>F</u>	ORWARD			LONG	Forward
F9	WAP			LONG	Swap
F10 <u>F</u>	CTIONS			SHORT	Actions
F1=Help	F2=Split	F3=Exit	F4=Left		F5=Right
F6=Expand	F7=Backward	d F8=Forward	F9=Swap		F10=Actions

Or you use the Keylist Utility. You can invoke the Keylist Utility from the Settings menu or by entering the KEYLIST command from a command line.

Function keys can be changed from the Settings menu or by entering the KEYS command from a command line.

File View		Keylist Utilii	:y ———	
	K1		0.0	
Command ===>	Keylisi	Utility for I	.5K	Scroll ===> <u>PAGE</u>
Actions: N	=New E=Edit \	/=View D=Delet	te /=None	
Keylist ISRHELP ISRHLP2 ISRNAB ISRNAB ISRREFL ISRREFO ISRSAB ISRSCRVT ISRSLAPP ISRSNAB ISRSNAB ISRSPBC ISRSPEC	Type SHARED SHARED SHARED SHARED SHARED SHARED SHARED SHARED SHARED SHARED	Currently acti	ive keylist	t ***
F1=Help F6=Expand	F2=Split F7=Backward	F3=Exit F8=Forward	F4=Left F9=Swap	F5=Right F10=Actions

Session 8676

You can define function key values three ways:

- Use the KEYS command to display the Keylist Utility panel or, if you're not using keylists, the PF Key Definitions and Labels panel, then change the function keys for the panel you are on.
- If you're using keylists, use the KEYLIST command or select the "Keylist settings" choice from the Function keys pull-down on the ISPF Settings panel.
- If you 're using keylists but need to change the non-keylist function keys, use the ZKEYS command or select the "Non-Keylist PF Key settings" choice from the Function keys pull-down on the ISPF Settings panel.



Using commands and function keys...

Most ISPF panels have action bars. The action bar is the area at the top of an application panel that contains action bar choices for the panel.

When you select an action bar choice, a pull-down menu of pull-down choices is displayed.



31

March 2011

Action bars give you another way to move through ISPF. Most ISPF panels have action bars at the top; the choices appear on the screen in white by default.

The action bar is the area at the top of an application panel that contains action bar choices for the panel.

An action bar choice represents a group of related choices that appear in the pull-down associated with the action bar choice.

When you select an action bar choice, the associated pull-down appears directly below the action bar choice.

Pull-downs contain choices that, when selected, perform actions that apply to the contents of the panel.



Using commands and function keys...

	<u>M</u> enu <u>U</u> tilitio	es <u>C</u> ompiler	s <u>O</u> ptions	s <u>S</u> tatus	<u>H</u> elp		
0p	tion ===>		ISPF Prima	ary Option	Menu		
0 1 2 3 4 5 6 7 9 10 11	Settings View Edit Utilities Foreground Batch Command Dialog Test IBM Products SCLM Workplace	Terminal a Display so Create or Perform ut Interactiv Submit job Enter TSO Perform di IBM progra SW Configu ISPF Objec	nd user pa urce data change sou ility fund e language for langu or Worksta alog testi m developm ration Lib t/Action W	arameters or listing unce data tions a processir age process tion comma ing ment produc prary Manag Jorkplace	gs ssing ands cts ger	User ID . Time Screen Language. Appl ID . TSO logor TSO prefi System II MVS acct. Release .	: SIROED : 13:48 : 3278 : 1 : ENGLISH : ISR : ISPF :: SIROED) : ISD1 : IBMGSA : ISPF 5.6
	Enter X to	Terminate u	sing log/1	list defaul	lts		
F	1=Help F2 7=Backward F8	2=Split B=Forward	F3=Exit F9=Swap	F4=Left F10=Acti	ions	F5=Right F12=Cancel	F6=Expand

Point-and-shoot fields are text fields on a panel that are cursor-sensitive. If you position the cursor on a pointand-shoot field and press Enter, the action described in that field is performed.

l	Menu <u>H</u> elp	
		Utility Selection Panel
0p	tion ===>	
1	Library	Compress or print data set. Print index listing. Print, rename, delete, browse, edit or view members
2	Data Set	Allocate, rename, delete, catalog, uncatalog, or display information of an entire data set
З	Move/Copy	Move, or copy members or data sets
4	Dslist	Print or display (to process) list of data set names. Print or display VTOC information
5	Reset	Reset statistics for members of ISPF library
6	Hardcopy	Initiate hardcopy output
7	Transfer	Download ISPF Client/Server or Transfer data set
8	Outlist	Display, delete, or print held job output
9	Commands	Create/change an application command table
11	Format	Format definition for formatted data Edit/Browse
12	SuperC	Compare data sets (Standard Dialog)
13	SuperCE	Compare data sets Extended (Extended Dialog)
14	Search-For	Search data sets for strings of data (Standard Dialog)
15	Search-ForE	Search data sets for strings of data Extended (Extended Dialog)
F:	1=Help I	F2=Split F3=Exit F4=Left F5=Right F6=Expand
F	7=Backward	F8=Forward F9=Swap F10=Actions F12=Cancel

32

March 2011

Many ISPF panels also have point-and-shoot text fields, which appear in turquoise by default. Point-and-shoot text fields are cursor-sensitive; if you select a field, the action described in that field is performed. For example, if you select Option 3, Utilities, on the ISPF Primary Option Menu, the Utility Section panel is displayed.

If you have entered a command on the command line, this command is processed before any point-and-shoot command.

You can use the Tab key to position the cursor to point-and-shoot fields by selecting the "Tab to point-and-shoot fields" option on the ISPF Settings panel (Option 0).



Getting help

The HELP command shows you:

↓General information about an ISPF system command or option

↓General information about an ISPF panel

 \checkmark More information about a message that has been displayed in the upper-right corner of the screen

If you enter the TUTOR command without a parameter, the general tutorial help panel is displayed.

Tutorial ISPF Tutorial Tutorial Command ===>
ISPF Dialog Manager Tutorial
This tutorial provides on-line information about the features and operations of ISPF. You may view the tutorial sequentially, or you may choose selected topics from lists displayed on many of the tutorial pages.
The table of contents lists major topics. Subsequent pages contain additional lists that lead you to more specific levels of detail. You can also select topics from the tutorial index.
The following panel describes how to use this tutorial.
Press ENTER to proceed to the next page, or Enter the UP command to go directly to the table of contents, or Enter the END command to return to the primary option menu.
F1=Help F2=Split F3=Exit F4=Resize F5=Exhelp F6=Keyshelp F7=PrvTopic F8=NxtTopic F9=Swap F10=PrvPage F11=NxtPage F12=Cancel

The HELP command (F1/13) shows you general information about an ISPF system command, ISPF option, or panel, or offers more information about a message that has been displayed in the upper-right corner of the screen.

For short messages, HELP displays a one-line explanation. To get further information, enter the HELP command a second time for the appropriate section of the tutorial. Long messages display (by default) in a pop-up window. Enter END (F3/15) or RETURN (F4/16) to return to the screen that you were viewing when you entered the HELP command.

The following types of help panels are available:

Field-level help
 Provides help panels for individual fields on application panels. When the user enters the Help command, ISPF displays the help panel defined for the field on which the cursor is located.
 Message help
 Provides help for ISPF messages.
 Panel help
 Provides help for ISPF panels.
 Describes the ISPF product. The tutorial is shipped with the ISPF product.

The TUTOR command calls the ISPTUTOR program to display specified tutorial panels. To display a particular tutorial panel, enter the TUTOR command along with the panel identifier of the desired tutorial panel as a parameter. If you issue the TUTOR command without a parameter, the general tutorial help panel (ISP00000) is displayed.



Split screen mode

You can use the SPLIT command to divide your 3270 display into two or more logical screens.

The position of the cursor defines the new logical screen.

Utilities Compilers Options Statu

	<u>M</u> enu <u>U</u> tilit:	es <u>C</u> ompil	ers <u>O</u> ptions	<u>S</u> tatus <u>H</u> elp		
0	ption ===> <u>sp</u>	.it	ISPF Prima	ry Option Menu		
0 1 2 3 4 5 6 7 7 9 1 1	Settings View Edit Utilities Foreground Batch Command Dialog Test Dialog Test Dialog Test Utorkplace Enter X to	Terminal Display Create o Perform Interact Submit j Enter TS Perform IBM prog SW Confi ISPF Obj	and user pa source data r change sou utility func ive language ob for langu 0 or Worksta dialog testi ram developm guration Lib ect/Action M using log/l	irameters or listings irce data tions processing dage processing tion commands ng tion commands ng tion products orary Manager lorkplace	User ID Time Termina Screen. Languag Appl ID TSO log TSO pre System MVS acc Release	0. : SIROED . : 17:20 1. : 3278 . : 1 ge. : ENGLISH 0. : ISR on : ISPF fix: SIROED ID : ISD1 ct. : IBMGSA 6. : ISPF 5.6
	F1=Help F F7=Backward F	2=Split 8=Forward	F3=Exit F9=Swap	F4=Left F10=Actions	F5=Right F12=Cancel	F6=Expand
SIROED 17:20 3278 Expand 						
SIROED 17:21 3278 2 ENGLISH ISR Expand	Eac sep	ch log arate	ical sc ISPF	reen is session	treated	as a

	2			
		ISPF Prima	ary Option Men	u
Option ===>				
			More:	+
Settings	Terminal	and user pa	arameters	User ID . : SIROED
1 View	Display	source data	or listings	Time : 17:20
2 Edit	Create o	r change sou	urce data 🌷	Terminal. : 3278
F1=Help	F2=Split	F3=Exit	F4=Left	F5=Right F6=Expand
F7=Backward	F8=Forward	F9=Swap	F10=Actions	F12=Cancel
		-		
<u>M</u> enu <u>U</u> tili	ities <u>C</u> ompil	ers <u>Ö</u> ptions	s <u>S</u> tatus <u>H</u> el	p
		ISPF Prima	ary Option Men	u
Option ===>				
			More:	
Ø Settings	Terminal	and user pa	arameters	User ID . : SIROED
1 View	Display	source data	or listings	Time : 17:21
2 Edit	Create o	r change sou	urce data	Terminal. : 3278
3 Utilities	Perform	utility fund	ctions	Screen : 2
4 Foreground	d Interact	ive language	e processing	Language. : ENGLIS
5 Batch	Submit j	ob for lang	uage processin	q Appl ID . : ISR
F1=Help	F2=Split	F3=Exit	F4=Left	F5=Right F6=Expand
F7=Backward	F8=Forward	F9=Swap	F10=Actions	F12=Cancel

34

Session 8676

There might be times when you want to select another ISPF function without ending the current function. ISPF provides the ability to "split" the display screen into two or more logical screens that operate independently of one another.

You enter split-screen mode by using the SPLIT command. You also use this command to reposition the horizontal line that separates the two logical screens on a 3270 display. On a 3270 display the location of the cursor identifies the active logical screen. On a 3270 display, the horizontal divider line that separates the logical screens is not considered part of either logical screen. If the cursor is placed on this horizontal divider line and a function key is pressed, the result is the same as if the ENTER key was pressed and the cursor is positioned on the active logical screen's command line.

When the SPLIT command is entered without a parameter, if only one screen is currently being used, the physical display is divided into two logical screens with a divider at the cursor. If two or more screens exist, the divider line is moved, but no new screen is started.

When the SPLIT NEW command is entered, a new logical screen is added each time the command is given, until the maximum number is reached. After the limit is reached, a message appears when the command is issued again. Each new logical screen is added below the cursor, where the split line appears. If two or more screens already exist, the new one replaces the screen in which the SPLIT command was *not* entered.

The maximum number of screens available to you depends on the value of the MAXIMUM_NUMBER_OF_SPLIT_SCREENS keyword in the ISPF Configuration table. ISPF ships with a default figure of 8. Support for up to 32 split screens is available for all terminal types except the 3290.

On a 3270, only two logical screens are ever displayed. Although a 3270 terminal can only display two screens at one time, there can be other screens that are not visible.



Split screen mode...

Position the cursor at the top or bottom of the screen to get a "fullscreen" logical screen.





In Settings (option 0), the **Always show split line** option specifies that the split line in split screen mode, as seen on a 3270 display, should always be shown. The default for this option is that the option is selected. By deselecting this option, the split line does not display when the screen is split at the top or the bottom of the screen.



Split screen mode...

Although you can have multiple logical screens, only one logical screen is ever active and, on a 3270, only two logical screens are displayed.

<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>W</u> orkstatio	n <u>H</u> elp		
View Entry Panel			
	More: +		
ISPF Library:	<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities	Workstation Help	
Group <u>DEVI</u> Type <u>SOURCE</u> (Blank or patt	View Menu <u>U</u> tilities <u>C</u> ompilers <u>O</u> ption	Entry Panel 	
Other Partitioned, Sequential or VSAM Data Set:	ISPF Prin	mary Option Menu	 New logical screens
Volume Serial (If not catalo	Option ===> <u>3.4;split new</u>		0
Workstation File: File Name	0 Settings Terminal and user p 1 View Display source data	Darameters User ID . : SIROED	tus Helt
Options	2 Edit Create or change so	Mend Otitities Compiters Options Sta	
Initial Macro Conf	4 Foreground Interactive language	ISPF Primary Op	tion Menu
Format Name View	5 Batch Submit job for lang	Option ===>	
Data Set Password <u>/</u> Warn F1=Help F2=Split F3=Exit F4=Left	6 Command Enter TSO or Works 7 Dialog Test Perform dialog test	F1=Help F2=Split F3=Exit F4 F7=Backward F8=Forward F9=Swap F10	=Left F5=Right F6=Expand =Actions F12=Cancel
F7=Backward F8=Forward F9=Swap F10=Acti	10 SCLM SW Configuration L: 11 Workplace ISPF Object/Action	Menu RefList RefMode Utilities Help	
		Data Set List	Utility
	F1=Help F2=Split F3=Exit		More: +
	ri-backward ro-rorward ro-swap	blank Display data set list	P Print data set list
		V Display VTOC information	PV Print VTOC information
		Enter one or both of the parameters below:	
		Dsname Level <u>SIROED</u>	
		Volume serial	
		Data set list options	nter "/" to select ontion
		F1=Help F2=Split F3=Exit F4	=Left F5=Right F6=Expand
		F7=Backward F8=Forward F9=Swap F10	=Actions F12=Cancel

36



Split screen mode...

Only one logical screen is ever active. You can change the active logical screen by using the SWAP command.

<u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>O</u> ptions <u>S</u> tatus <u>H</u> elp
ISPF Primaru Option Menu
Option ===>
F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel
Menu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>H</u> elp
Data Set List Utility Option ===>
More:
blank Display data set list P Print data set list
V Display VTOC information PV Print VTOC information
Enter one or both of the parameters below: Dsname Level <u>SIROED</u> Volume serial
Data set list options
Initial View <u>1</u> 1. Volume Enter "/" to select option
F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand
F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel

<u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>O</u> ptions <u>S</u> tatus <u>H</u> elp		
- F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel		
<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>H</u> elp 		
Data Set List Utility		
More: + blank Display data set list P Print data set list V Display VTOC information PV Print VTOC information		
Enter one or both of the parameters below: Dsname Level <u>SIROED</u> Volume serial		
Data set list optionsInitial View <u>1</u> 1. VolumeEnter "/" to select optionF1=HelpF2=SplitF3=ExitF4=LeftF5=RightF6=ExpandF7=BackwardF8=ForwardF9=SwapF10=ActionsF12=Cancel		

SWAP without a parameter toggles between the current logical screen and the other screen displayed.

Although you can alternately use any logical screen, only one of the logical screens is considered active at a time. The location of the cursor identifies the active screen. You make a screen active by using the SWAP command and its parameters to choose the desired screen.

When you enter the SWAP command without a parameter, if only one screen exists, this command has no effect. If more than one screen exists, this command moves the cursor between the two logical screens that are displayed.

The SWAP command allows a parameter to be specified so you can swap to a specific screen. The parameters on the SWAP command are LIST, PREV, NEXT, *screen_name*, and *n*.

Entering SWAP PREV changes the display to the next lower screen number from the one where the command is entered. Repeatedly issuing the same command causes each lower-numbered screen to display until screen number 1 is reached, then the counter wraps back to screen number 32 (or your installation's maximum number).

Entering SWAP NEXT changes display to the next higher screen number from the one where the command is entered. Repeatedly issuing the same command causes each higher-numbered screen to display until screen number 32 (or your maximum) is reached, then the counter wraps back to screen number 1.

Entering SWAP screen_name changes display to the screen named screen_name if it is active. Screens can be named using the SCRNAME command.

Entering SWAP *n* changes the display to the screen numbered *n* if it is active.



Split screen mode...

Menu Utilities Compilers Options Status Help ISPF Primary Option Menu Option ===>	SWAP LIST will display a list of all the logical screens.
F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel .	The "*" indicates the current logical screen.
Option ===; <u>swap list</u> More: + blank V Enter one Dsname Dsname	The "-" indicates the screen opposite the current logical
Volume F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel Data set Initia F1=Help F7=Backw 0 Active ISPF Logical Sessions 0 Start a new screen Start a new application F1=Help F2=Split F1=Help F2=Split	F3=Exit F4=Left F5=Right F6=Expand
HppliCation Name F/=Backward F8=Forward E ID Nsme Panelid Applid Sessi I 2 VIEW ISRBR001 ISR 3270 I* DSLIST ISRUDLP ISR 3270 I 3- ISR@PRIM ISR 3270 ISPF Library: ISPF Library:	F9=Swap F10=Actions F12=Cancel Utilities Workstation Help View Entry Panel More: +
F1=Help F3=Exit F7=Backward F8= F11=Expand F12=Cancel Group DEV1 Sition the cursor at the logical Member Source Other Partitioned, Sequent Data Set Name	(Blank or pattern for member selection list) ial or VSAM Data Set:
ess Enter.	(If not cataloged) F3=Exit F4=Left F5=Right F6=Expand F9=Swap F10=Actions F12=Cancel

38
SWAP LIST displays the ISPF Task list. You can choose which logical screen to swap to form this list.

Select an ISPF screen to switch to by positioning the cursor to an input field and pressing Enter.

The "*" indicates the current logical screen.

The "-" indicates the screen opposite the current logical screen.

A screen name may be assigned to a screen with the SCRNAME command.

Start a new logical screen by selecting 'Start a new screen' or start an application in a new logical screen by selecting 'Start a new application' and entering an application name in the Application Name input field. Any application name and parameters that are valid for the ISPF START command are valid in this field. If additional space is needed, press the Expand PF key while the cursor is in this field and a popup window will be displayed containing a longer input field.

Ending ISPF

To end ISPF from the ISPF Primary Option Menu, you can use the:

- ↓EXIT command (F3)
- ↓END command
- ↓RETURN command
- \downarrow Exit option (X)

If you are not on the ISPF Primary Option Menu, you can still leave ISPF immediately by using the jump function =X.

In split-screen mode, taking these actions only ends ISPF on the current logical screen.





To end ISPF from the ISPF Primary Option Menu, you can use the:

- EXIT command (F3)
- END command
- RETURN command
- Exit option (X)

If you are not on the ISPF Primary Option Menu, you can use the *jump function* to immediately leave ISPF from any panel by entering =X. There are two exceptions:

- If you are using any of the Dialog Test options (7.1-7.T) or the SCLM options (10.1-10.6), entering =X returns you to the ISPF Primary Option Menu.
- If you are at the Dialog Test or SCLM Primary Option Menu, enter either X or =X to return to the ISPF Primary Option Menu, then enter X or =X to end ISPF.

If the display screen is split, taking one of the actions listed above ends ISPF on the active logical screen only.



ISPF Primary Options – Settings (Option 0)

The Settings option allows you to configure your ISPF session by changing parameters such as:

- ↓ISPF list/log data sets handling
- List data set characteristics
- \checkmark Function key assignments
- ↓Keylist settings
- ↓Default colors
- ↓Point-and-shoot color/highlighting
- ↓Placement of command line
- ↓ Terminal characteristics

	Log/Li	ist	Function	keys	<u>C</u> olors	<u>E</u> nviro	on <u>W</u> orks	station	<u>I</u> dentifie	r <u>H</u> elp
					IS	PF Set	ings			
	Command	===>	/							
	0						Deint (More: +
	Uptions			onti			Print (srapnics		
	Enter		to select	botto	on 		Pami	iy prini	ter type z	
			iche at				Acon	st name	· · · · <u> </u>	
			rispilag co		-		пэрес	St Fati	···· <u>o</u>	
		'y me	action ba	r cho	ices					
			point-and		t fielde		General	1		
		tore	TEST/TRE		tions		Innu	t field	pad B	
	Ses	ssion	Manager	mode	10115		Comma	and deli	imiter . :	
	Z Jur	no fr	om leader	dots					4	
	Edi	it PR	INTDS Com	mand						
	/ Al	vaus	show spli	t lin	2					
	Ena	able	EURO sign							
	_		2							
	Member	list	options							
	Enter		to select	opti	on					
_oq/List	Function	keys	Colors	Envi	on <u>W</u> or	kstatio	n <u>I</u> den	tifier	Help	
										F6=Expand
	×		IS	PF Se	ttings					
mmand ===>	_									
								Mo	ore: -	
Scroll	member li	ist .								
Allow e	mpty memb	per l	ist (
HILOW e	mpty mem	ber l	ist (noma	tch)						
Empty m	iember (19	στ το	or edit on	ιy						
ningl Cha										
rminal Una	racteris	1 0		6+4	2 1		4 Dant			
screen for		1. 0		310	5. 6	<u>av</u>	4. Fait			
Terminal T	une 3	1.	3277	2	3277A	3	3278	4. :	32786	
	565 0	5.	3290A	6.	3278T	7.	3278CF	8. 3	3277KN	
		9.	3278KN	10.	3278AR	11.	3278CY	12. 3	3278HN	
		13.	3278H0	14	3278IS	15.	3278L2	16.	3E163	
		17.	BE190	18.	3278TH	19.	3278CU	20. 0	DEU78	
		21.	DEU78A	22.	DEU78T	23.	DEU90A	24. 5	SW116	
		25.	SW131	26.	SW500	27.	3278GR	28. 3	3278L1	
1=Help	F2=Spli	it	E3=Exit		E4=Left		E=Diah+	Eßt	Evened	
					14-2210		5-Kight	10-	-expand	

The Settings option allows you to display and change a variety of ISPF parameters at any time during the ISPF session. Changes remain in effect until you change the parameter again, and ISPF saves them from session to session.

This chapter explains how to use the fields on the ISPF Settings panel and the action bar choices. Some of the things you can specify are:

- Terminal characteristics
- Default options for processing the ISPF list and log data sets
- Function key assignments
- Placement of command lines
- List data set characteristics
- GDDM graphic print parameters
- Keylist modifications
- Dialog Test option
- Default colors
- Values of CUA panel elements
- Point-and-shoot color and highlight changes
- ENVIRON command options

This facility can be started from any command line with the SETTINGS command, from the **Settings** choice on the Menu pull-down on any action bar where it is available, or by selecting option 0 on the ISPF Primary Option Menu. Typically, the Settings facility should be included as an option on an application's primary option menu or as a choice on a pull-down on an application's primary option menu.

-	
<u> </u>	

ISPF Primary Options – Settings (Option 0)...

ISPF supports screen sizes from 24x80 characters to 62x160 characters. On 327x terminals, you can change the screen format.

Log/List <u>F</u> unction keys <u>C</u> olors <u>E</u> nviron <u>W</u> orkstation <u>I</u> dentifier <u>H</u> elp .	
ISPF Settings	
Command ===> Print Graphics Options Family printer type 2 Command line at bottom Device name	
21. DEU784 22. DEU78T 23. DEU99A 24. SW116 . 25. SW131 26. SW500 27. 3278GR 28. 3270L1 .	
F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand F7=Backward F8=Forward F9=Swap F18=Actions F12=Cancel	

<u>L</u> og/List	<u>F</u> unction k	eys <u>C</u> olors	<u>E</u> nviron	<u>W</u> orkstati	on <u>I</u> dentif	ier <u>H</u> elp
Command ===)	h	IS	PF Settin	igs		
/ Scroll _ Allow e _ Allow e / Empty m	— member lis empty membe empty membe nember list	t r list r list (noma for edit or	itch) ily			More: -
Terminal Cha Screen for	aracteristi mat <u>2</u> 1) Data 2.	Std	3. Max	4. Part	
minal 1	Type <u>3</u>	1. 3277 5. 3290A 9. 3278KN 13. 3278H0 17. BE190 21. DEU78A 25. SW131	2. 32 6. 32 10. 32 14. 32 18. 32 22. DEU 26. SW	77A 3. 78T 7. 78AR 11. 78IS 15. 78TH 19. J78T 23. 500 27.	3278 3278CF 3278CY 3278L2 3278CU DEU90A 3278GR	4. 3278A 8. 3277KN 12. 3278HN 16. BE163 20. DEU78 24. SW116 28. 3278L1
elp ackward	F2=Split F8=Forwa	F3=Exit rd F9=Swap	: F4= F10=	Left I Actions F	F5=Right 12=Cancel	F6=Expand

Changing the screen format from Std to Data allows more data to be displayed.



Session 8676

The Terminal Characteristics portion of the ISPF Settings panel allows you to specify values for the screen format and terminal type.

Screen format

Specification of screen format applies only to 327x and 3290 terminals (or a terminal emulator set to a mode that emulates a 327x or 3290 terminal). ISPF ignores screen format for other types of terminal.

- Data Format is based on data width.
- **Std** Format is always 24 x 80 characters.
- Max Format is determined by the maximum data width and height of the terminal or emulator.
- Part Format uses hardware partitions (3279 only)

Terminal type

If you are using a terminal emulator, select the type of terminal that is being emulated (more than likely, a 3278 or 3278x). Specification of a terminal type allows ISPF to recognize valid (displayable) characters. You should keep in mind that the terminal type value that you specify to ISPF might not be the actual terminal type. For example, if your terminal is a 3279, you specify 3278 because a 3279 terminal has the same character set as a 3278. The keyboard character sets for the specified terminal and the actual terminal are always compatible.



ISPF Primary Options – Settings (Option 0)...

Use the Log/List action bar choice to specify how your log and list data sets are handled when you end ISPF.

Log/List Function keys Col	ors Environ Workstation Identifier Help
 1. Log Data set defaults 2. List Data set defaults 2. List Data set defaults 	tings
3. LIST Data set character	More: +
4. JUL	Print graphics
Operation of Manager Andrew	Family printer type 2
Command line at bottom	Device name
/ Panel display COH mode	HSpect ratio ⊎
Long message in pop-up	Log/List Function keys colors environ workstation identifier Help
/ Tab to action bar choices	Log Data Set Defaults
/ Tab to point-and-shoot fit	C More: +
2 Restore TEST/TRACE options	Process option <u>2</u> 1. Print data set and delete +
/ Jump from loadon dots	0 2. Delete data set (without printing)
Edit PRINTDS Command	3. Keep data set (append subsequent
/ Always show split line	A Keen data set and allocate new data set
Enable EURO sign	Batch SYSOUT class . A Log/List Function keys Colors Environ Workstation Identifier Help
Enable Eoko Sign	Local printer ID or ISPF Settings
Member list options	writer-name List Data Set Defaults
Enter "/" to select option	Local SYSOUT class C
/ Scroll member list	Lines per page <u>60</u> Process option <u>2</u> 1. Print data set and delete
F1=Help F2=Split F3=	Exit Second set Without printing)
F7=Backward F8=Forward F9=	SWAP Log Message D (/ = Yes) information to same data set
	F1=Help F2=Split F3=Exit 4. Keep data set and allocate new data set
	F9=Swap F12=Cancel Batch SYSOUT class A
	M Local printer ID or
	Enter "/" to select option Writer-name
	/ Scroll member list Local stour class
	$F_1 = Re(p) = r_2 = sp(1) = r_3 = ext(r_1 + q) = r_1 = sp(r_1 + r_2 + r_3)$
	Secondary pages 200
	F1=Help F2=Split F3=Exit F7=Backward F8=Forward
	rs-swap F12=Cancel
	Enter "/" to select option
	/ Scroll member list
	F1=Help F2=Split F3=Exit F4=Left F5=Right F6=Expand
	F7=Backward F8=Forward F9=Swap F10=Actions F12=Cancel

42

Session 8676

ISPF helps you get hardcopy listings of source modules, and maintains a log of significant user activities. These items are kept in data sets called the list data set and the log data set, respectively. When needed, the two data sets are allocated automatically. They are temporary data sets named:

prefix.userid.SPFn.LIST prefix.userid.SPFLOGn.LIST

prefix The data set prefix in your TSO profile. Used only if it is different from your user ID.userid Your user ID.

n A number from 0 to 9.

If you have specified in your TSO profile a data set prefix that differs from your user ID, the data set names begin with your data set prefix, followed by your user ID. Once generated, these data sets remain open throughout your ISPF session. However, even though they are open, you can still process them by using the ISPF LIST and LOG commands.

The Log/List pull-down on the ISPF Settings panel action bar allows you to specify the log and list data set defaults that are used when you terminate ISPF by issuing the RETURN or END command or by entering an **X** on the ISPF Primary Option Menu command line.

You can use the log settings to specify how the ISPF log data set is allocated, formatted, and processed, and you can use the list settings to specify how the ISPF list data set is allocated, formatted, and processed. The options available on these panels are also displayed on the ISPF termination panel (if you exit by using the END command), and on the LIST/LOG command panels.

	_	
		-
		-
_	_	

ISPF Primary Options – View (Option 1)

The View option allows you to view data in partitioned data sets or sequential data sets.



When you view a data set, you can use edit commands, but changes to the data are not saved when you end.

<u>F</u> ile Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW SIROED.DEV1.SOURCE(FLM01MD1) - 01.01 Columns 00001 00072
Command ===> Scroll ===> <u>CSR</u>
****** *******************************
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 ********************************
000200 * ROUTINE INITIALIZATION *
000210 *
000220 * 5647-A01 (C) COPYRIGHT IBM CORP. 1987. *
000230 👱
000300 ********************************
000400 FLM01MD1 CSECT * *
000500 B 28(R15) * BRANCH AROUND ID/DATE/TIME *
000600 DC CL8'FLM01MD1' * MODULE ID *
Data changes cannot be saved in a View session. Use Edit if you want to be able to save your changes. Using the REPLACE command to write data from a VIEW session can overwrite changes which were made to the data set after the VIEW session began because VIEW does not provide ENQ protection at the beginning of the VIEW session.
F8=Down F9=Swap F10=Left F11=Right F12=Cancel

43

View allows you to display source data or output listings. With View, members of partitioned data sets, or DASD-resident sequential data sets can be displayed, and updated using Edit primary and line commands. Changes to data are not saved.

 	_	_
	_	
		-
_		-
	_	

ISPF Primary Options – View (Option 1)...

The View option also allows you to browse data in PDS members or sequential data sets.



Browse mode is different than view mode:

 \downarrow You cannot use edit commands in browse mode.

↓You can browse larger data sets.
↓Performance is usually better.

<u>M</u> enu	Utili	ties <u>C</u> or	mpilers <u>H</u> el	р					
BROWSE Command	SIR(DED.DEV1	SOURCE (FLMC	1MD1) -	01.00	Li	ine 0000000 Scr	0 Col oll =:	001 080 ==> <u>PAGE</u>
******	*****	*******	*****	Top of I	Data ***	******	*******	****	*******
******	****	*******	**********	******	*******	******	*******	****	00010000
* ROUTINE	INIT	ALIZATIO	DN					ж	00020000
*									00021000
* 5647-A0	1 (C)	COPYRIG	HT IBM CORP.	1987					00022000
ж									00023000
*******	****	********	*******	******	******	******	*********	****	00030000
FLM01MD1	CSECT								00040000
	B	28 (R15)			BRANCH	AROUND	ID/DATE/TI	ME *	00050000
	DC	CL8'FLM	91MD1'		MODUL	E ID			00060000
	DC	CL8'&SYS	SDATE'		ASSEM	IBLY DAT	ΓE		00070000
	DC	CL8' &S)	YSTIME'		ASSEM	BLY TIM	1E		00080000
	STM	R14, R12	, 12 (R13)		SAVE AL	L REGS	BUT R13		00090000
	LR	R4, R13			SAVE R1	3 IN R4	4		00100000
	LR	R12, R15			GET PRO	GRAM PT	rr		00110000
	LM	R0, R12, 1	20 (R13)		RESTORE	R0-R12	2		00120000
	BR	R14			RETURN	TO CALL	_ER		00130000
×									00140000
F1=Help	F:	2=Split	F3=Exit	F5=Rfi	nd F7=	Up	F8=Down	F9=	Swap
F10=Left	F11	L=Right	F12=Cancel						

March 2011

Browse also allows you to display data or output listings. With Browse, members of partitioned data sets, or DASD-resident sequential data sets can be displayed, and can be scrolled forward, backward, left, or right. Browse can be selected from the View Entry Panel.

In many ways browse can be considered a subset of edit. Browse is used instead of edit for three major reasons:

- There is no risk of accidentally changing data.
- Larger data can be handled since only the records that need to be read for the display are in main storage.
- Performance will normally be better because all of the data is not read into main storage.



ISPF Primary Options – View (Option 1)...

The data set being viewed or browsed can be an ISPF library.

An ISPF library is a cataloged PDS (or PDSE) with a three-level name consisting of a project, group, and type.

You can concatenate up to four PDSs with the same project and type identifiers.

If you don't specify a member name, a list of members is displayed.

<u>M</u> enu <u>R</u> ef	List R <u>e</u> f	Mode <u>l</u>	<u>Į</u> tiliti	es <u>W</u> orkstat	ion <u>H</u> elp		×
			Vi	ew Entry Pan	el		
Command ===	>						Mana: t
ISPF Librar Project Group . Type . Member	y: <u>SIR</u> <u>DEV</u> <u>SOU</u>	DED 1 RCE	<u>T</u> I	EST (Blank or pa	. <u>RELEASE</u> . attern for me	<u> </u>	tion list)
Other Parti Data Set	tioned, S Name	equenti ·	ial or	VSAM Data Se	et:		
Volume S	erial	·		(If not cata	(loged)		
Workstation File Nam	File:						
				Optic	ins		
Initial Mac	ro			_ Co	nfirm Cancel	/Move/Repl	ace
Profile Nam	е	·		∠ Br	owse Mode		
Format Name		· —		_ V1	ew on Workst	ation Data Chang	
El=Hala	55W0F0 .		E2-Evi	+ 54-10	frn on First	Jata Lhang	e GEEVoand
F7=Backwar	d F8=For	ward	F9=Swai	o F10=Ac	tions F12=C	ancel	0-Expand
<u>M</u> enu <u>F</u> ur	nctions <u>U</u>	tiliti	es <u>H</u> el	р			
BROWSE	SIROED.DEV	1. SOUR	CE			Row 00	301 of 00006
Command ===	Promot	Lib	6170	Created	Cha	Scro	((===> <u>PAGE</u>
	Prompt	1	21	2004/01/30	2006/07/0	ngeu 5 09:31:5	
. FLM01MD1		1	19	2004/01/30	2006/07/0	5 09:54:0	7 SIROED
. FLM01MD3		3	0	2004/01/30	2004/01/3	0 12:49:0	5 SCLM
. FLM01MD4				2004/01/30	2004/01/3	0 12:49:0	7 SCLM
. FLM01MD5				2004/01/30	2004/01/3	0 12:49:0	7 SCLM
. FLM01MD6				2004/01/30	2004/01/3	0 12:49:0	7 SCLM
End							
F1=Help	F2=Split	F3=	Exit	F5=Rfind	F7=Up F	8=Down	F9=Swap

An ISPF library is a cataloged partitioned data set with a three-level data set name in this format: 'project.group.type'.

To specify an ISPF library, enter the library name in the following fields:

ISPF Library:

Project ...

Group ...

Туре....

Member . . . (Blank or pattern for member selection list)

Project The common identifier for all ISPF libraries belonging to the same programming project. This name must be your user ID unless you are using a specific project name that has been predefined in the MVS master catalog.

Group The identifier for a particular set of ISPF libraries, that is, the level of the libraries within the library hierarchy. For example, the group name of your private library could be PRIVATE or perhaps your first name, such as Joe.

Type The identifier for the type of information in the ISPF library, such as PL/I, SCRIPT, or PANELS.

You can also enter a member name on many panels. If the member name is left blank or a pattern is entered, a member selection list is displayed.

Whenever the first Group field is accompanied by three additional fields horizontally across the screen, you can enter a *library concatenation sequence*, which is a series of group names chained together. ISPF searches these groups in the sequence that you enter them.

IBM

ISPF Primary Options – View (Option 1)...

You can scroll through the member list to find the member you want to view or browse. Select the member using an S line command.

If you specified a concatenation of ISPF libraries, the member can be in any library of the concatenation.

DDDUIOE								
BRUWSE	SIR	DED. DEV1	L. SOURC	CE			Row 00001	l of 00006
Command	===> _						Scroll	===> <u>PAGE</u>
Name	Pr	rompt	Lib	Size	Created	Chang	ged	ID
. FLM01E	QU			21	2004/01/30	2006/07/05	09:31:58	SIROED
. FLM01M	ID1			19	2004/01/30	2006/07/05	09:54:07	SIROED
s FLM01M	ID3				2004/01/30	2004/01/30	12:49:06	SCLM
. FLM01M	ID4				2004/01/30	2004/01/30	12:49:07	SCLM
. FLM01M	1D5				2004/01/30	2004/01/30	12:49:07	SCLM
. FLM01M	ID6				2004/01/30	2004/01/30	12:49:07	SCLM
**End*	ж							
F1=Help) F2	2=Split	F3=8	Exit	F5=Rfind F	-7=Up F8:	=Down FS	3=Swap
F10=Left	F11		E10-0					
		I=Right	F12=0	Cancel				p
		I=Right	F12=0	Cancel				
<u>M</u> enu	<u>U</u> tili	ties <u>C</u>	ompile	Cancel rs <u>H</u> el	р			
Menu	Utili	ties <u>C</u>	ompile	Cancel	p	1.00 1.00	0000000	ol 001 (1 20
Menu BROWSE	Utili SIR	ties <u>C</u> OED.RELI	eASE.S	Cancel rs <u>Hel</u> OURCE (F	P LM01MD3) - 0	1.00 Line	00000000 C	ol 001 080
<u>M</u> enu BROWSE Command	Utili SIR	ties <u>C</u> OED.RELI	eASE.S	Cancel	P LM01MD3) - D	1.00 Line	00000000 C Scroll	ol 001 080 ===> <u>PAGE</u>
Menu BROWSE Command	Utili SIR	ties <u>C</u> OED.REL	ense.s	Cancel rs Hel OURCE (F	P LM01MD3) - D Top of Data	1.00 Line	00000000 C 	ol 001 030 ===> <u>PAGE</u>
Menu BROWSE Command	Utili SIR	ties <u>C</u> OED.RELI	ense.si	Cancel rs Hel OURCE (F	p LM01MD3) - 0 Top of Data	1.00 Line	00000000 C Scroll	ol 001 030 ===> <u>PAGE</u> *********** * 00010000
Menu BROWSE Command	Utili SIR	ties <u>C</u> OED.RELI	EASE.SI	Cancel rs <u>Hel</u> OURCE (F	p LM01MD3) - D Top of Data	1.00 Line	00000000 C Scroll	ol 001 030 ===> <u>PAGE</u> ********** * 00010000 * 00020000
Menu BROWSE Command ********* * ROUTINE *	Utili SIR	ties <u>C</u> OED.RELI	EASE.S	Cancel rs Hel OURCE (F ************************************	P LM01MD3) - D Top of Data	1.00 Line	00000000 C Scroll	<pre>ol 001 080 ===> PAGE ************************************</pre>
<u>Menu</u> BROWSE Command ********* * ROUTINE * * 5647-A(Utili SIR SIR SIR SIR SIR SIR SIR SIR SIR SIR	ties <u>C</u> OED.RELI	ease.su ****** ion GHT IB	Cancel rs Hel OURCE(F ****** *******	p LM01MD3) - D Top of Data ******	1.00 Line	00000000 C Scroll	<pre>> 001 030 ===> PAGE * 00010000 * 00020000 * 00021000 * 00022000 * 00022000</pre>
Menu BROWSE Command ********** * ROUTINE * * 5647-A(Utili SIR SIR SIR SIR	ties <u>C</u> OED.RELI	ease.si e ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Cancel rs Hel OURCE(F ****** ******* M CORP.	p LM01MD3) - 0 Top of Data ***********	1.00 Line	0000000 C Scroll	<pre>ol 001 030 ===> PAGE ************************************</pre>
Menu BROWSE Command ********* * ROUTINE * * 5647-A0 *	Utili SIR INIT	ties <u>C</u> OED.RELI	eASE.SI	Cancel rs Hel OURCE(F ************************************	p LM01MD3) - Top of Data 1987	1.00 Line	0000000 C Scroll	<pre>ol 001 030 ===> PAGE ************************************</pre>
Menu BROWSE Command ********** * ROUTINE * * 5647-A(* FLM01MD3	Utili SIR INIT	The second secon	eASE.SI	Cancel rs Hel OURCE (F ******* M CORP. *******	p LM01MD3) - Top of Data 1987	1.00 Line	00000000 C	<pre>ol 001 030 ===> PAGE ************************************</pre>
Menu BROWSE Command ********* * ROUTINE * * 5647-AC * FLM01MD3	Utili SIRI SIRI INIT D1 (C)	ties <u>C</u> 0ED.RELI 0ED.RELI 1ALIZAT COPYRII	ense.si ense.s	Cancel <u> rs Hel</u> OURCE (F ******* M CORP. ********	P LM01MD3) - Top of Data ***********************************	1.00 Line	00000000 C Scroll *********** *********** DATE/TIME	<pre>> 01 001 030 ===> PAGE ************************************</pre>
<u>Menu</u> BROWSE Command ********* * ROUTINE * * 5647-A(* FLM01MD3	Utili SIR INIT D1 (C) CSECT B DC	L=Right ties <u>C</u> 0ED.RELI IALIZAT COPYRI 28 (R15) CL8 FEL	ompile EASE.S ION GHT IB M01MD3	Cancel <u>rs Hel</u> OURCE (F ******* M CORP. ******* ;	P LM01MD3) - Top of Data 1987 ************************************	1.00 Line	00000000 C Scroll ********** ************************	<pre>ol 001 030 ===> PAGE *********** * 00010000 * 00021003 * 00022003 * 00023003 * 00030000 * 00030000 * 00030000 * 00050000 * 00050000</pre>
<u>Menu</u> BROWSE Command ********* * ROUTINE * * 5647-A(* * FLM01MD3	Utili SIR INIT D1 (C) CSECT B DC DC	UNDER CONTRACTOR CONTR	entropy of the second s	Cancel <u>rs Hel</u> OURCE (F ****** M CORP. 	P LM01MD3) - Top of Data 1987 ************************************	1.00 Line	00000000 C Scroll ********** ************************	<pre>ol 001 030 ===> PAGE ************************************</pre>
Menu BROWSE Command ********* * ROUTINE * * 5647-AC * FLM01MD3	Utili SIR INIT D1 (C) CSECT B DC DC DC DC DC	1=Kight ties <u>C</u> 0ED.RELI 1ALIZAT 28(R15) CL8'FL CL8'KS CL8'&S	ense.s ense.s ion ght IB moimd3 ysdate systim	Cancel <u>rs Hel</u> OURCE (F 	P LM01MD3) - Top of Data 1987 * * BRAN * MO * AS * AS	1.00 Line	00000000 C 	<pre>> 001 030 ==> PAGE ************************************</pre>
<u>Menu</u> BROWSE Command ********* * ROUTINE * * 5647-A(* * FLM01MD3	Utili SIR INIT D1 (C) CSECT B DC DC DC STM	UCD RELI CODD. RELI CODD. RELI CODYRII CODYRII CL8'FLI CL8'&S' CL8'&S' R14, R1:	ense.s en	Cancel rs Hel OURCE (F ************************************	P LM01MD3) - Top of Data 1987 ************* * BRAN * MO * AS * AS * SAVE	1.00 Line	00000000 C Scroll ********** DATE/TIME R13	<pre>ol 001 030 ===> PAGE ************************************</pre>

* RESTORE R0-R12

F7=Up

F5=Rfind

* RETURN TO CALLER

E8=Down

Session 8676

LM BR R0, R12, 20 (R13)

F1=Help F2=Split F3=Exit

001200

* 0013000 * 0014000

F9=Swap

	_
_	
_	

ISPF Primary Options – View (Option 1)...

The data set being viewed or browsed can also be any PDS, with or without a member name, or a sequential data set.

If you specify both an ISPF library name and an other data set name, the other data set name takes precedence.



Session 8676

March 2011

You can view or browse any partitioned or sequential data set by specifying the data set name in the **Other Partitioned or Sequential Data Set** field. **Data Set Name** can be any fully qualified data set name, such as **'USERID.SYS1.ASM'**. You can include either a TSO user prefix or user ID as the first-level qualifier of the data set name. If you omit the single quotes and if you have created a TSO user prefix, that prefix is automatically added to the beginning of the data set name. If you omit the single quotes and if you do not have a TSO user prefix, no prefix is added, and the name is used exactly as it appears.

If you include your user prefix or user ID, enclose the data set name with apostrophes. If you include the apostrophe at the beginning of the data set name but omit the one at the end, ISPF inserts it for you.

Note: ISPF does not support multivolume data sets or partitioned data sets with record format FBS or VBS.

For partitioned data sets, a member name enclosed in parentheses can follow the data set name. For example: '**ISP.SISPSAM(FLMDTLC)**'. If you include the parenthesis at the beginning of the member name but omit the one at the end, ISPF inserts it for you.

When you omit the member name and parentheses or use a pattern ISPF displays a member list.

Note: For Edit, Browse, and View, a VSAM set can be specified if your site's ISPF has been configured for with the name of a VSAM edit/browse product such as File Manager for z/OS.



ISPF Primary Options – Edit (Option 2)

The Edit option allows you to edit and change data in partitioned data set or sequential data sets.

<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>W</u> orkstation <u>H</u> elp						
Edit Entry Panel						
ISPF Library: Project <u>SIROED</u> Group <u>DEV1</u>						
Volume Serial (If not cataloged) Workstation File: File Name						
Options Initial Macro						

Depending upon your site's configuration, when you edit an SCLM-managed PDS member, you get a warning or you may not be able to edit the member.

<u>File E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp	
EDIT SIROED.DEV1.SOURCE(FLM01MD1) - 01.00 SCLM warnin	ng
Command ===> Scr ott ===> <u>CS</u>	2
****** *******************************	кжж
==MSG> -CAUTION- Saving this member will invalidate the SCLM accounting	
==MSG> information. Refer to the edit tutorial for further details	5.
==MSG> -Warning- The UNDO command is not available until you change	
==MSG> your edit profile using the command RECOVERY ON.	
999199 ******************************	K
000200 * ROUTINE INITIALIZATION	K
000210 *	K
000220 * 5647-A01 (C) COPYRIGHT IBM CORP. 1987	K
000230 *	K
·····	K
000400 FLM01MD1 CSECT *	K
000500 B 28(R15) * BRANCH AROUND ID/DATE/TIME *	K
000600 DC CLS'FLM01MD1' * MODULE ID *	K
000700 DC CL8'&SYSDATE' * ASSEMBLY DATE *	K
000800 DC CL8' &SYSTIME' * ASSEMBLY TIME	ĸ
000	ĸ
001 The member being edited may belong to an SCLM controlled project.	K
F8=Down F9=Swap F10=Left F11=Right F12=Cancel	

March 2011

The ISPF editor is a full screen editor. You can use the ISPF editor to create, display, and change data stored in ISPF libraries or other partitioned or sequential data sets with the following characteristics:

Record Format (RECFM):

- Fixed or variable (non-spanned)
- Blocked or unblocked
- With or without printer control characters

Logical Record Length (LRECL):

- From 1 to 32760, inclusive, for fixed-length records
- From 5 to 32756, inclusive, for variable-length records.

Note: For variable-length records, the amount of editable data in each record is 4 bytes less than the logical record length.

When attempting to edit a member in an SCLM controlled project, you should use ISPF option 10.2 (the SCLM EDIT interface). If you use the option 2 edit interface, ISPF will first determine if the project specified is SCLM controlled, and if it is, either a warning message will be displayed or the edit will not be allowed, depending on the setting of the ISPF configuration table.



ISPF Primary Options – Edit (Option 2)...

When you edit an empty data set or non-existent PDS member, the editor displays empty lines for you to input data.

<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>W</u> orkst	ation <u>H</u> elp	
Edit Entry P	anel h	
ISPF Library: Project <u>SIROED</u> Group <u>DEMO</u> Type <u>SOURCE</u> Member <u>newmem</u> (Blank or	pattern for member selection list)	
Other Partitioned, Sequential or VSAM Data Data Set Name Volume Serial (If not ca	<u>File Edit Edit_Settings Menu U</u> tilities	<u>Compilers Test Help</u> Columns 00001 00072
Workstation File: File Name Opt	==MSG> -Warning- The UNDO command is not avail ==MSG> your edit profile using the c	lable until you change command RECOVERY ON.
Initial Macro	inis is a new PUS member	
Fl=Heip F2=Split F3=Exit F4= F7=Backward F8=Forward F9=Swap F10=	· · · · · · · · · · · · · · · · · · ·	File Edit Edit_Settings Menu Utilities Compilers Test Help EDIT SIROED.DEMO.SOURCE (NEWMEM) - 01.00 Columns 00001 00072 Command ===>
		==MSG> -Warning- The UNDO command is not available until you change ==MSG> -Warning- The UNDO command is not available until you change ==MSG> your edit profile using the command RECOVERY ON. 0000001 THIS IS A NEW PDS MEMBER.
	F1=Help F2=Split F3=Exit F5=Rfi F8=Down F9=Swap F10=Left F11=Rig	****** <u>*</u> *****************************
		*
		F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

49

Before you can edit a new sequential data set, you must allocate space for it. When you specify an empty sequential data set or nonexistent member of a partitioned data set, the first edit display contains several empty lines between the **Top of Data** and **Bottom of Data** message lines. The editor replaces the quote marks on the left of the panel with sequence numbers when you type information on the lines.



ISPF Primary Options – Edit (Option 2)...

You can customize your edit environment. Customization settings are stored in edit profiles.

In the previous example, we saw text that was entered in lower case was converted to uppercase.

This is because caps mode is on. You can see whether caps mode is on or off, along with other edit mode information, by displaying the edit profile with the PROFILE command.

Special "=PROF>" lines will be displayed. These lines indicate the current setting of the various profile modes.

<u>F</u> ile	<u>E</u> dit E	<u>d</u> it_Settings	<u>M</u> enu	<u>U</u> tilities	<u>C</u> ompilers	<u>T</u> est	Help
EDIT Command	SIRO	ED.DEMO.SOURO	CE (NEWM	IEM) - 01.00)	Col	lumns 00001 00072 Scroll ===> <u>CSR</u>
==MSG> ==MSG>	Warning	- The UNDO co your edit p	ommand profile	** Top of D is not avai using the	lata ****** lable until command REC	you c	hange ON.
000001 T	HIS IS	A NEW PDS MEN *************	IBER. «*****	* Bottom of	Data ****	*****	*****
<u>F</u> ile <u>E</u> dit	E <u>d</u> it_	Settings <u>M</u> er	nu <u>U</u> ti	lities <u>C</u> om	pilers <u>T</u> es	t <u>H</u> el	.p
)IT S ommand ===>	IROED.D	EMO. SOURCE (NE	EWMEM)	- 01.00	C	olumns Scro	00001 00072
ROF>	OURCE (FIXED - 80)	RECO	OP OF Data VERY OFF WE ON STD	RNNUMBE	R OFF.	
ROF>P	ROFILE	UNLOCKIM	ACRO NO R FIND.	INEPACK	OFFNOTE	ON	
MSG> -Warn MSG>	ing- Th yo	e UNDO comman ur edit profi	nd is n ile usi	ot availabl ng the comm	e until you and RECOVER	chang Y ON.	je
**** ****	******	**********	кжжж Во	ttom of Dat	a ********	*****	******
1=Help	F2=Sp	lit F3=Ex	kit	F5=Rfind	F6=Rcha	nge	F7=Up

March 2011

ISPF defaults control much of the editing environment. However, you can use line and primary commands to change number and statistical fields on a data display panel and to determine how the data appears.

The current settings of edit modes, together with the current MASK, TABS, and BOUNDS definition lines, are maintained in an edit profile which can be displayed at any time via the PROFILE primary command. When the profile is changed, it is automatically updated in your user profile library.

Edit profiles are used to retain information that controls your edit session, including:

- The current setting of edit modes (NUMBER, CAPS, NULLS, etc.), and
- The current contents of the MASK, TABS, and BOUNDS definition lines.

Each profile is normally identified with a data set type (the last qualifier in the data set name). This allows different mode settings and different MASK, TABS, and BOUNDS to be saved and used as the initial settings for different types of source data. For example, if you edit a data set with a name ending in COBOL, edit will use your COBOL profile. Similarly, your CNTL profile will be used for CNTL data sets. If you want to use a profile other than the one that edit would select for you, enter the profile name in the field that is provided on the edit entry panel.

Edit automatically creates a profile the first time that you attempt to reference it. The first time that you edit COBOL data, for example, a COBOL profile is created, and will be remembered. If you enter a new profile name on the edit entry panel, a new profile of that name will be created and remembered. If you already have the maximum number of edit profiles, your least-recently used profile will be deleted to make room for the new profile.

Edit automatically remembers the current setting for each mode in the profile. If you change from NUMBER OFF to NUMBER ON, you are telling edit to start generating sequence numbers. Edit then automatically remembers that NUMBER mode is on, so the next time that you edit with the same profile, NUMBER mode will be on. In other words, the profile always contains the last setting that you used for an edit mode or for special lines, such as MASK or TABS.



ISPF Primary Options – Utilities (Option 3)

The Utilities option provides a variety of functions for library, data set, and catalog maintenance.

	<u>M</u> enu <u>H</u> elp	
		Utility Selection Panel
Οp	tion ===> _	
1	Library	Compress or print data set. Print index listing. Print, rename, delete, browse, edit or view members
2	Data Set	Allocate, rename, delete, catalog, uncatalog, or display information of an entire data set
з	Move/Copy	Move, or copy members or data sets
4	Dslist	Print or display (to process) list of data set names. Print or display VTOC information
5	Reset	Reset statistics for members of ISPF library
6	Hardcopy	Initiate hardcopy output
7	Transfer	Download ISPF Client/Server or Transfer data set
8	Outlist	Display, delete, or print held job output
9	Commands	Create/change an application command table
11	Format	Format definition for formatted data Edit/Browse
12	SuperC	Compare data sets (Standard Dialog)
13	SuperCE	Compare data sets Extended (Extended Dialog)
14	Search-For	Search data sets for strings of data (Standard Dialog)
15	Search-ForE	Search data sets for strings of data Extended (Extended Dialog)
	1=Help	F2=Split F3=Exit F4=Left F5=Right F6=Expand
F	7=Backward	F8=Forward F9=Swap F10=Actions F12=Cancel

You can access the utilities either from option 3 on the Primary Option Menu or from the Utilities action bar choice on the Primary Option Menu.

Menu	Utilities Compilers Op	otions Status Help	
Optio	1. Library 2. Data set 3. Move/Copy	rimary Option Menu	
0 Se	 4. Data Set List 5. Reset Statistics 6. Hardcopy 7. Download 8. Outlist 9. Commands *0. Reserved 11. Format 12. SuperC 13. SuperCE 14. Search-For 15. Search-ForE 	r parameters	User ID . : SIROED
1 Vi		ata or listings	Time : 13:45
2 Ed		source data	Terminal : 3278
3 Ut		functions	Screen. : 1
4 Fo		uage processing	Language. : ENGLISH
5 Ba		anguage processing	Appl ID . : ISR
6 Co		kstation commands	TSO logon : ISPF
7 Di		esting	TSO prefix: SIROED
9 IB		lopment products	System ID : ISD1
10 SC		Library Manager	MVS acct. : IBMGSA
11 Wo		on Workplace	Release . : ISPF 5.6
F1=He1	p F2=Split F3=E>	kit F4=Left	F5=Right F6=Expand
F7=Bac	skward F8=Forward F9=Sv	Nap F10=Actions	F12=Cancel

March 2011

51

The Utilities option provides a variety of functions for library, data set, and catalog maintenance. Among others, these include:

Library Utility (Option 3.1)

Maintains partitioned data sets.

Data Set Utility (Option 3.2)

Allocates, deletes, renames, catalogs, and uncatalogs data sets.

Move/Copy Utility (Option 3.3)

Copies or moves data from one data set to another.

Data Set List Utility (Option 3.4)

Display or prints lists of ISPF libraries, data sets, or volume table of contents (VTOC) information.

Download Data Set to Workstation Utility (Option 3.7)

Uploads or downloads data sets from the host environment to your workstation.

SuperC Utility (Option 3.12) and SuperCE Utility (Option 3.13)

Compares data sets.

Search-For Utility (Option 3.14) and Search-ForE Utility (Option 3.15)

Searches data sets.

ISPF Table Utility (Option 3.16)

Processes ISPF tables.

				_
			_	_
-	-	-		

ISPF Primary Options – Utilities (Option 3)...

The Data Set Utility allows you to allocate a new data set.



When you allocate a new data set you need to specify all the data set attributes. The Data Set Utility remembers many of these attributes from one invocation to the next.

<u>M</u> enu <u>R</u> efList <u>U</u> tilities <u>H</u> elp	
Allocate New Data Set	
More:	+
Data Set Name : SIROED.NEW.DATASET	
Management class . PRIMARY (Blank for default management class) Storage class . . (Blank for default storage class) Volume serial . . (Blank for system default volume) ** Device type . . . Data class Space units Primary quantity Primary quantity Directory blocks Record length Record length Solution <	
Block size	

March 2011

52



Other options

ISPF provides numerous other options. You can use these options to:

↓Foreground (option 4)

Run language compilers and certain other programs in foreground under ISPF.

↓Batch (option 5)

Run language compilers and certain other programs as batch jobs.

↓Command (option 6)

Run TSO commands, CLISTs and REXX execs.

↓Dialog Test (option 7)

Test your ISPF dialog entities (functions, panels, variables, messages, tables, skeletons) and complete ISPF applications.

↓IBM Products (option 9)

Invoke other IBM program development products.

↓SCLM (option 10)

Access the Software Configuration and Library Manager (SCLM) .

↓Workplace (option 11)

Access the ISPF Object/Action Workplace which combines many of the ISPF functions onto one object-action interface.

To allocate a new sequential or partitioned data set on a direct access device, fill in the following fields of the data set utility panel:

- Enter A in the option field.
- Enter the new library or data set name in the appropriate fields.

You will then be shown the Allocate New Data Set panel, on which the input fields have been pre-entered. ISPF remembered these values from your most recent use of either:

- Allocate new data set, or
- Display data set information.



How to Learn More

Get your hands dirty!

- ↓ Use ISPF
 - The editor
 - The Data Set List Utility
 - The HELP facilities
 - HELP command (PF1)
 - Tutorial (TUTOR command)

Read the manuals

- ↓ SC34-4822-09: ISPF User's Guide, Volume 1
- ↓ SC34-4823-09: ISPF User's Guide, Volume 2
- ↓ SC34-4820-09: ISPF Edit and Edit Macros

z/OS Basic Skills Info Center

http://publib.boulder.ibm.com/infocenter/zos/basics/index.jsp

This presentation has only scratched the surface in terms of the features and capabilities of ISPF's editor and data set utilities. There is plenty more to learn!

The best way to learn more is to use ISPF. Play with the editor to find out more about its capabilities and features. Use the Data Set List Utility as the place where you manage your data sets. It provides interfaces to many other ISPF data set utilities so you will soon get familiar with these as well. There is lots of information available online through the ISPF HELP facilities. The ISPF tutorial is a hierarchy of panels which allows you to easily navigate through a vast amount of helpful information relating to ISPF. The tutorial can be invoked using the TUTOR command. From any panel within ISPF you can enter the HELP command to learn more about that particular panel and its function.

The ISPF manuals are an obvious source of information. The ISPF User's Guide Volume I provides introductory information about using ISPF. The ISPF User's Guide Volume II provides specific information on each of the ISPF options. The ISPF Edit and Edit Macros manual describes how to use the ISPF editor.