



# z/OS Learning Center: Introduction to ISPF

## Unit 1: The Basics of ISPF and Data Sets Module 2: The ISPF PDF Primary Options Menu



```
1. 3444
2. Score
PrintNumber
3. 219
DrawShape
4. 1
1sh
GetKey
5. di, di
    xor di, di
    mov cx, 2000
    mov ax, 700h
    rep stosw
    call DrawBorders
    mov di, 184
    mov si, offset sNext
    call PrintText
    mov di, 272
    mov si, offset sHiScore
    call PrintText
```

```
6. al, 0
    mov ah, 7
    Clear screen and set color
    mov di, 3430
    mov si, offset sScore
    call PrintText
    mov di, 3010
    mov si, offset sSpeed
    call PrintText
```

```
7. di, 222
    mov ax, HiScore
    call PrintNumber
    mov Score, 0
    call ChooseGame
    call Rand
    mov NextShape, 0
    call Newshape
    call DrawTextShape
```

## ISPF Primary Options Menu – Introduction

This module, the ISPF PDF Primary Options Menu, explores the Program Development Facility, or PDF. This interface provides the application developer with services necessary to create and test applications. For example, you can edit program code and manage data sets, create test messages, trace and debug applications.

Time to complete: 30 minutes



## ISPF Primary Options Menu – Objectives

**Upon completion of this module, you should be able to:**

- **Navigate from the Primary Options Menu by a variety of methods**
- **Jump directly from one menu to another**
- **Access the ISPF PDF tutorial through the Help menu**

## ISPF Primary Options Menu – PDF Primary Options Panel

**The center of the PDF is the ISPF Primary Option Menu. The menu contains a list of options which may be customized, so the main menu on one z/OS system might not match the one on another system.**

**This is an example of the default Primary Option Menu.**

```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> ——————
0 Settings Terminal and user parameters User ID . : SMCHUGH
1 View Display source data or listings Time. . . : 16:57
2 Edit Create or change source data Terminal. : 3278
3 Utilities Perform utility functions Screen. . . : 1
4 Foreground Interactive language processing Language. : ENGLISH
5 Batch Submit job for language processing Appl ID . : PDF
6 Command Enter TSO or Workstation commands TSO logon : IKJACCT
7 Dialog Test Perform dialog testing TSO prefix: SMCHUGH
9 IBM Products IBM program development products System ID : SC76
10 SCLM SW Configuration Library Manager MVS acct. : ACCNTH
11 Workplace ISPF Object/Action Workplace Release . : ISPF 5.7

Enter X to Terminate using log/list defaults

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
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```

## ISPF Primary Options Menu – Standard Options

The standard options on the PDF Primary Options panel include:

**Settings:** Used to display and change ISPF parameters, such as terminal characteristics and function keys.

**View:** Allows you to view sequential data sets and PDS members.

**Edit:** Allows you to edit sequential data sets and PDS members.

**Utilities:** To access utility system and data set management functions, such as printing, renaming, or deleting data sets.

**Foreground:** Used to interactively run language processing programs such as COBOL.

**Batch:** Generates and submits batch jobs through job control statements.

**Command:** Enter TSO commands while ISPF remains active.

**Dialog Test:** Allows for testing of dialog elements such as panels and messages before assembling them into applications.

**IBM Products:** Interface to other IBM products.

**SCLM:** Access to the Software Configuration and Library Manager.

**Workplace:** Access to the ISPF object/action workplace shell, an object-oriented interface to data sets, workstation files, and volumes.

## ISPF Primary Options Menu – Four Ways to Navigate

You can navigate through ISPF in four different ways:

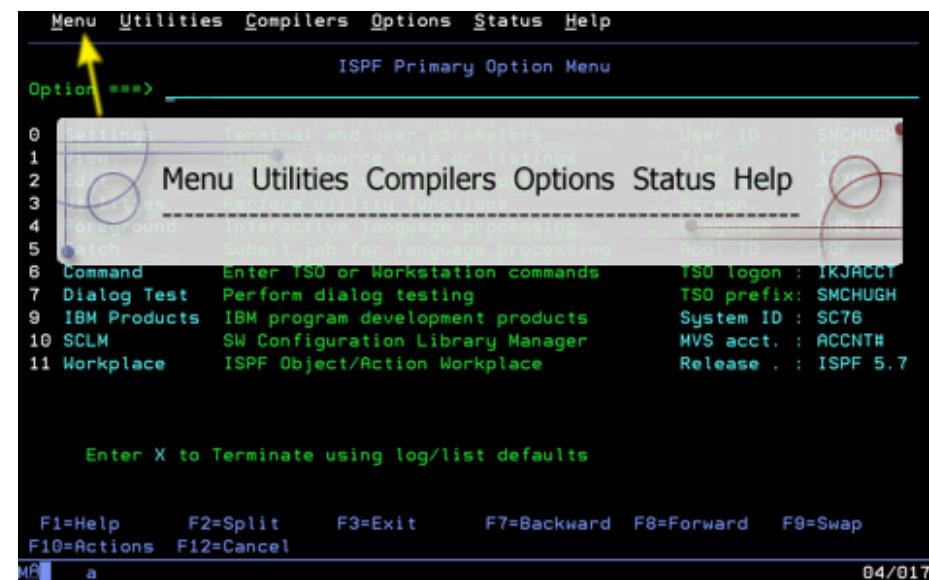
- **Action Bars**
- **Point-and-Shoot Fields**
- **Selection by Option Code**
- **Function Keys**

As you become more familiar with ISPF, you will probably choose the methods that work best for you.

## ISPF Primary Options Menu – Using the Action Bar – Simulation

The action bar appears at the top of the panel. The choices on the action bar vary from panel to panel.

To try a simulation of expanding the options on the action bar, click the Launch button.



## ISPF Primary Options Menu – Using the Point and Shoot Method – Simulation

To use the point-and-shoot method, move your cursor to one of the options on the menu and press Enter.

To try a simulation of point and shoot navigation, click the Launch button.

```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> _____
0 Settings Terminal and user parameters User ID . : SMCHUGH
1 View Display source data or listings Time. . . : 21:21
2 Edit Create or change source data Terminal. : 3278
3 Utilities Perform utility functions Screen. . : 1
4 Foreground Interactive language processing Language. : ENGLISH
5 Batch Submit job for language processing Appl ID . : PDF
6 Command Enter TSO or Workstation commands TSO logon : IKJACCT
7 Dialog Test Perform dialog testing TSO prefix: SMCHUGH
8 IBM Products IBM program development products System ID : SC76
10 SCLM SW Configuration Library Manager MVS acct. : ACCNT#
11 Workplace ISPF Object/Action Workplace Release . : ISPF 5.7

Enter X to Terminate using log/list defaults

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
MR a 08/005
```

## ISPF Primary Options Menu – Option Code Selection

The command area for menu screens is identified by:

Option ==>

For other screens, ISPF identifies the command area by:

Command ==>

The command area may appear at either the top or the bottom of your menu area depending on your settings.

You can get to the command area quickly by pressing the Home key, if you are using the default setting. Alternatively, if you specify the “Tab to action bar choices” in your settings, the Home key takes you to the first entry on the Action bar.

## ISPF Primary Options Menu – Option Code Selection – Simulation

To select an option, type the number of the option next to the option or command prompt and press Enter.

To try a simulation of using option codes to navigate, click the Launch button.

```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ===> 3

0 Settings      Terminal and user parameters      User ID . : SMCHUGH
1 View          Display source data or listings    Time. . . : 16:30
2 Edit          Create or change source data      Terminal. : 3278
3 Utilities     Perform utility functions        Screen. . : 1
4 Foreground    Interactive language processing  Language. : ENGLISH
5 Batch          Submit job for language processing Appl ID . : PDF
6 Command       Enter TSO or Workstation commands  TSO logon : IKJACCT
7 Dialog Test   Perform dialog testing          TSO prefix: SMCHUGH
8 IBM Products  IBM program development products System ID : SC76
10 SCLM         SW Configuration Library Manager MVS acct. : ACCNT#
11 Workplace    ISPF Object/Action Workplace    Release . : ISPF 5.7

Enter X to Terminate using log/list defaults

F1=Help          F2=Split          F3=Exit          F7=Backward   F8=Forward   F9=Swap
F10=Actions      F12=Cancel

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```

## ISPF Primary Options Menu – Jumping Between Panels – Frame 1

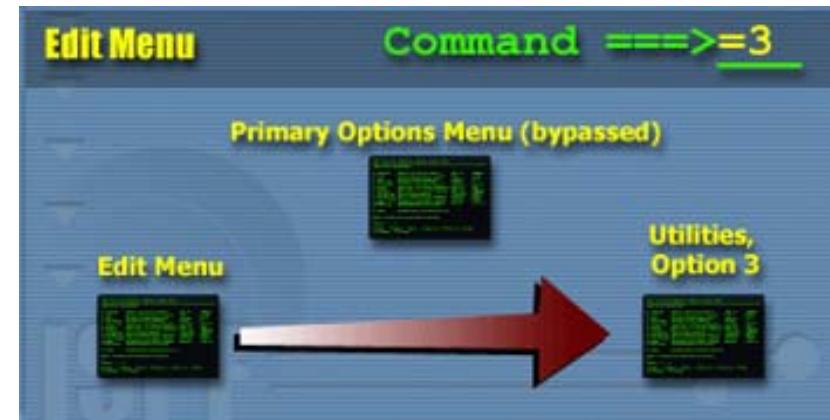
Many of the functions on the ISPF Primary Option Menu lead to additional menus. For example, if you select option 3 Utilities, you open the ISPF Utility Selection Panel. If you then select Option 2 Data Set, you navigate to the Data Set Utility. You can bypass this second menu by specifying both options (separated by a period) on the primary menu.



Option ==> 3.2

## ISPF Primary Options Menu – Jumping Between Panels – Frame 2

You can also jump from one option to another without having to “fall back” to the Primary Options Menu. For instance, if you are editing a file (option 2), you can jump directly to the utilities option by typing an equals sign and the number 3 on the command line.



Command ==> =3

## ISPF Primary Options Menu – Option Navigation Simulation

As you become more familiar with the functions of ISPF PDF, you will learn keyboard short cuts to get to the menus you use most often.

To try a simulation of using combined option codes to jumping between menus, click the Launch button.



The image shows a terminal window displaying the ISPF Primary Option Menu. The menu bar at the top includes 'Menu', 'Utilities', 'Compilers', 'Options', 'Status', and 'Help'. The main title 'ISPF Primary Option Menu' is centered above the menu options. The menu options are numbered 0 through 11, each with a description. To the right of the menu, system configuration parameters are listed. At the bottom of the screen, there is a message to enter 'X' to terminate, and a key legend for function keys F1 through F10.

Option	Description	System Parameter
0 Settings	Terminal and user parameters	User ID . . . : SMCHUGH
1 View	Display source data or listings	Time. . . . . : 12:38
2 Edit	Create or change source data	Terminal. . . . : 3278
3 Utilities	Perform utility functions	Screen. . . . . : 1
4 Foreground	Interactive language processing	Language. . . . : ENGLISH
5 Batch	Submit job for language processing	Appl ID . . . . : PDF
6 Command	Enter TSO or Workstation Commands	TSO logon . . . : IKJACCT
7 Dialog Test	Perform dialog testing	TSO prefix. . . . : SMCHUGH
9 IBM Products	IBM program development products	System ID . . . . : SCT76
10 SCLM	SW Configuration Library Manager	MVS acct. . . . : ACCNT#
11 Workplace	ISPF Object/Action Workplace	Release . . . . . : ISPF 5.7

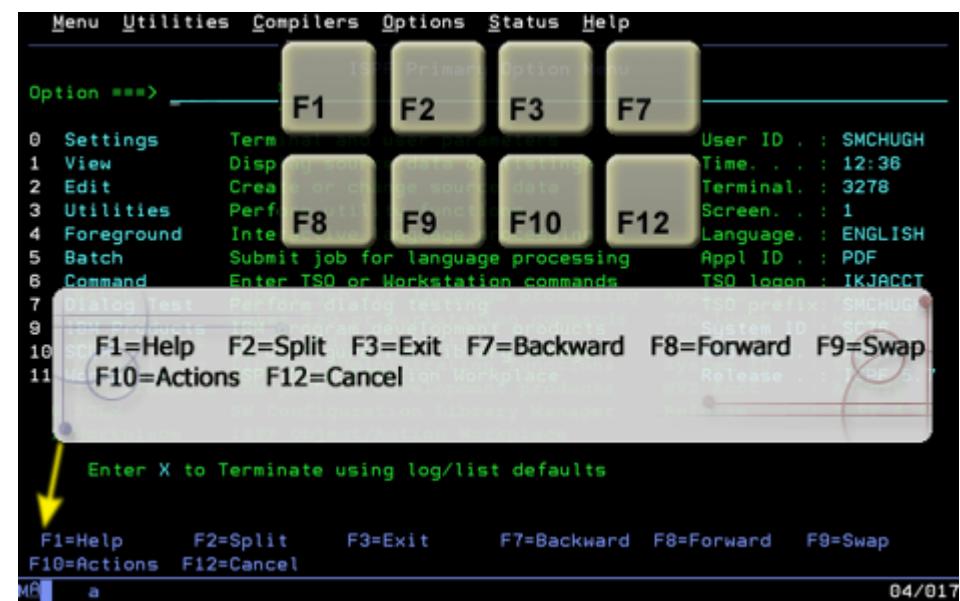
Enter X to Terminate using log/list defaults

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap  
F10=Actions F12=Cancel

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## ISPF Primary Options Menu – Function Keys

Using the function keys is another way to navigate in ISPF. The keys themselves are usually located across the top of the keyboard. The purpose or action represented by each key is shown at the bottom of the panel. To activate an option, just press the corresponding function key.



## ISPF Primary Options Menu – Pop-up Windows

Windows that appear on top of other panels are called pop-up windows. They may be used to display messages and short dialogs.



## ISPF Primary Options Menu – 3270 Keyboard PF and PA Keys

ISPF responds to PF and PA keys on the 3270 keyboard.

Two of the most important keys are PF3 (duplicated by PF15) and PF4 (duplicated by PF16). PF3 is the End key and it terminates an ISPF function. For example, after building several job steps in the Batch Job section, you press PF3. The job is submitted and you are returned to the previous menu.

The PF4 performs almost the exact same function. The only difference is that it returns you to the ISPF Primary Option Menu.

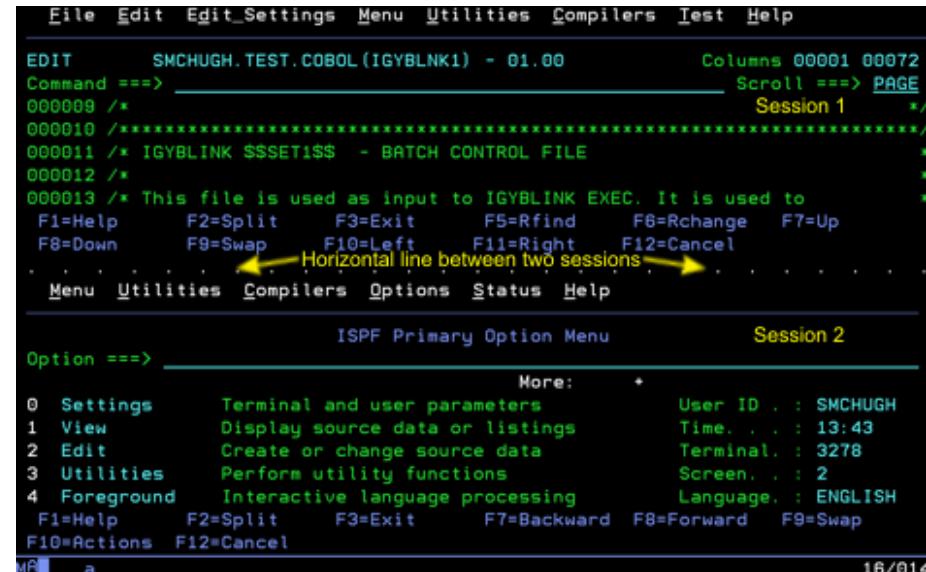
Key	Title
PA1	Attention
PA2	Reshow
PF1/13	Help
PF2/14	Split
PF3/15	End
PF4/16	Return
PF7/19	Up
PF8/20	Down
PF9/21	Swap
PF10/22	Left
PF11/23	Right
PF12/24	Retrieve



## ISPF Primary Options Menu – Split-Screen Mode - Simulation

Split-screen mode divides the screen horizontally into two separate screens, allowing you to view two different ISPF panels at the same time. Move your cursor to the line where you want the split to occur and press PF2.

To try a simulation of split-screen mode, click the Launch button.



File Edit Edit Settings Menu Utilities Compilers Test Help

EDIT SMCHUGH.TEST.COBOL(IGYBLNK1) - 01.00 Columns 00001 00072

Command ==> \_\_\_\_\_ Scroll ==> PAGE

000009 /\* Session 1 \*/

000010 \*\*\*\* 000011 /\* IGYBLINK \$\$SET1\$\$ - BATCH CONTROL FILE

000012 /\*

000013 /\* This file is used as input to IGYBLINK EXEC. It is used to

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up

F8=Down F9=Swap F10=Left F11=Right F12=Cancel

Horizontal line between two sessions

Menu Utilities Compilers Options Status Help

ISPF Primary Option Menu Session 2

Option ==> \_\_\_\_\_ More: +

0 Settings Terminal and user parameters User ID . . . : SMCHUGH

1 View Display source data or listings Time. . . . : 13:43

2 Edit Create or change source data Terminal. . . . : 3278

3 Utilities Perform utility functions Screen. . . . : 2

4 Foreground Interactive language processing Language. . . . : ENGLISH

F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap

F10=Actions F12=Cancel

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## ISPF Primary Options Menu – The ISPF Tutorial

ISPF has a tutorial for an online overview on using this product. To enter the tutorial, press the Help key (F1) on the terminal.

The tutorial provides context-sensitive help, so you will receive a portion of the tutorial that relates to the function you are currently using. For example, if you are on the Edit Entry Panel the help panel will look like the one shown here.

```
Tutorial ----- Edit ----- Tutorial
Option ==> Edit

Edit allows you to create or change source data.

The following topics are presented in sequence, or may be selected by number:

 0 - General introduction          10 - Automatic recovery
 1 - Types of data sets           11 - Edit profiles
 2 - Edit entry panel             12 - Edit line commands
 3 - SCLM edit entry panel       13 - Edit primary commands
 4 - Member selection list        14 - Labels and line ranges
 5 - Display screen format       15 - Ending an edit session
 6 - Scrolling data
 7 - Sequence numbering
 8 - Display modes (CAPS/HEX/NULLS)
 9 - Tabbing (hardware/software/logical)

The following topics are presented
only if selected by number:
16 - Edit models
17 - Miscellaneous notes about edit

F1=Help   F2=Split   F3=Exit   F4=Resize   F5=Exhelp   F6=Keyshelp
F7=PrvTopic   F8=NxtTopic   F9=Swap   F10=PrvPage   F11=NxtPage   F12=Cancel
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```

## ISPF Primary Options Menu – Summary

In this module, The ISPF Primary Options menu, you learned

- The center of ISPF is the ISPF Primary Option Menu.
- Several ways to navigate, including action bars, point-and-shoot fields, selection by option code, function keys and how to jump between screens.
- How to access the tutorial