

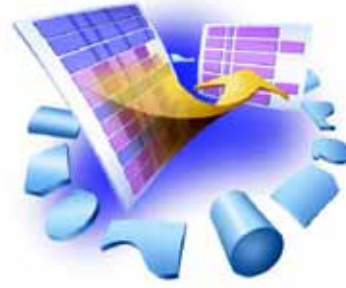


IBM Software Group

IBM File Manager for z/OS IMS Feature

Program Number 5655-S14

Tutorial



ON DEMAND BUSINESS

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02

Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.

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IBM	zSeries
IMS	
IMS/ESA	
Language Environment	
MVS	
MVS/ESA	

Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.



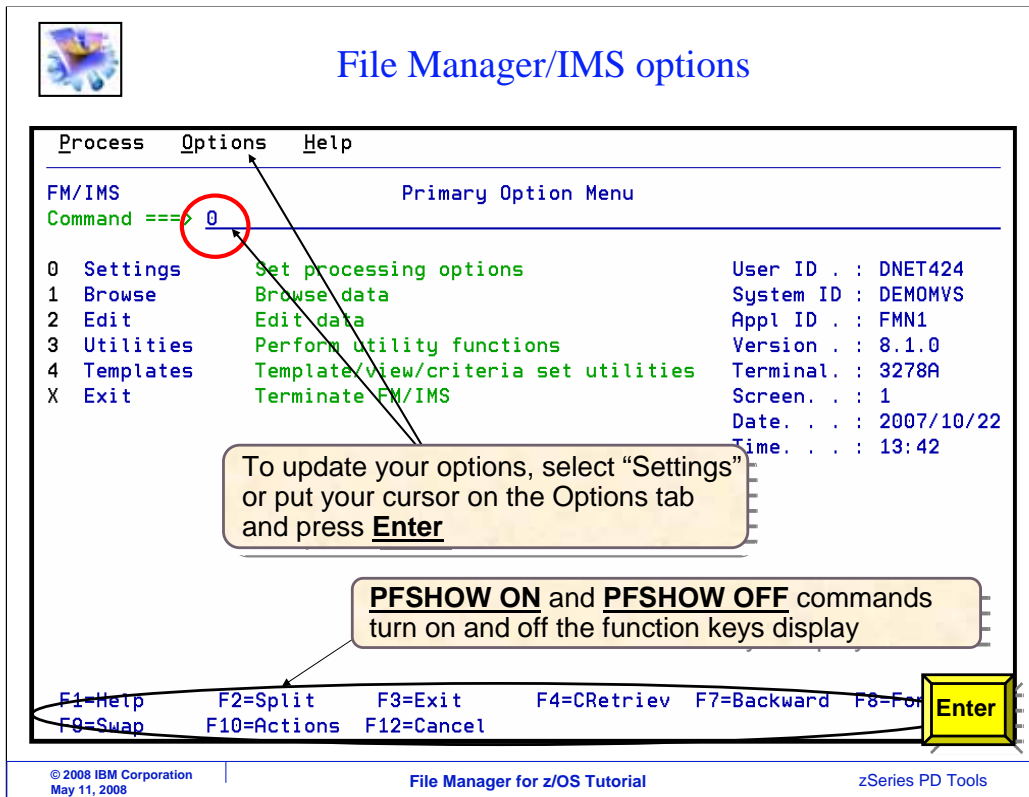
File Manager IMS training: sections

- Introduction
- **Your File Manager options settings**
- Browsing or editing an IMS database
 - Starting browse
 - Database navigation
 - Display database information
 - Display formats without a template
- Edit and browse access modes
 - Using DLI or BMP access
 - Using a Dynamic or Static PSB

File Manager IMS has a set of options that you can customize with your own preferences. They affect things like the types of information displayed in browse and edit and how IMS databases are accessed.

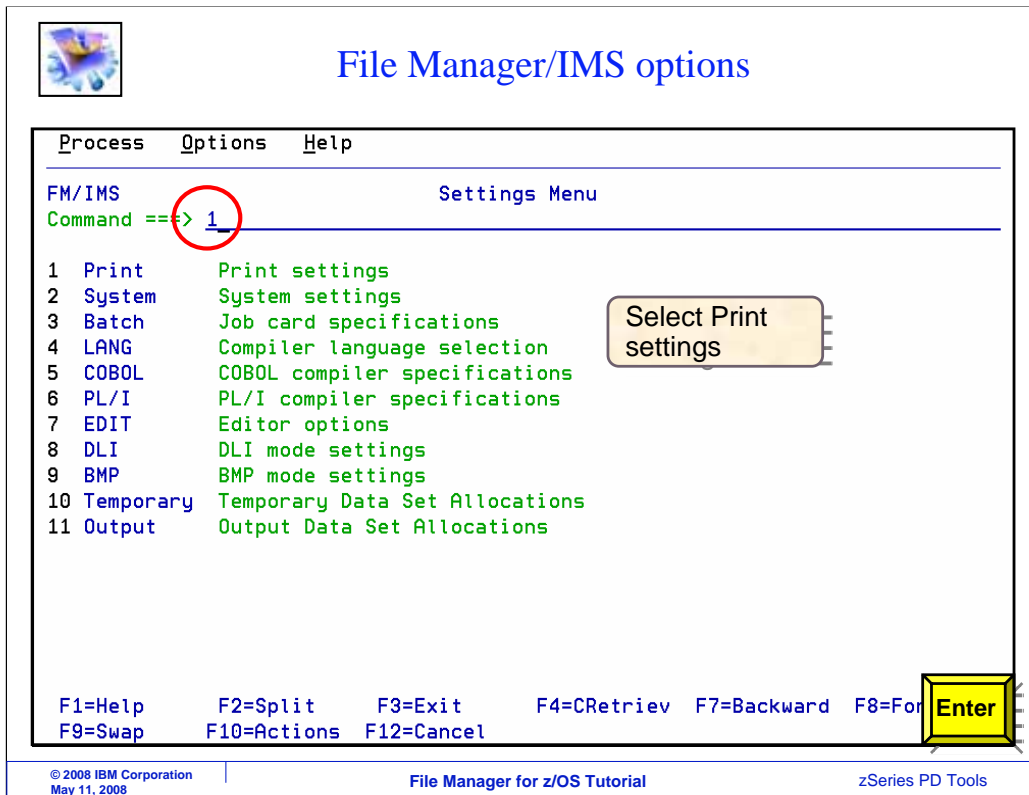
In this section you will see a description of many of the options and how you can modify them. Some suggestions will be given.

As you watch this section, you might want to update your settings in File Manager IMS. Pause the tutorial as needed to check and customize your own options on your system.



First, navigate to the File Manager IMS main menu in TSO. The person who installed File Manager may have set up menu options or a command to get there.

From the menu, there are two ways to navigate to the options panels. The first way is to pull down the options menu that is shown on most panels. To do that, put your cursor on the word Options at the top of the screen, and press Enter. Or you can type zero on the command line, as shown in this example, and press Enter.



That brings you to the settings menu, where you can select from the categories shown. For example, to see the print settings, type one on the command line, and Enter.

Next you will see several of the options panels. Option one is entered to get to the print settings panel.



Print options

```
Process  Options  Help
-----
FM/IMS          Set Print Processing Options
Command ==> _____

Print Options:
PRINTOUT SYSOUT=H          SYSPRINT, SYSOUT=c, TEMPLAT=FORM
PRINTDSN DNET424.FMN.LIST
PRINTLEN 132              132 or 80
PAGESIZE 60              Number of lines on a
PRTRANS  ON              ON, OFF, or KN
PRTDISP  OLD             OLD or MOD
HEADERPG YES            YES or NO
PAGESKIP NO             NO or YES
DUMP . . UPDOWN         UPDOWN or ACROSS
DATAHDR  YES            YES or NO
RECLIMIT (1,*)          (n,m) n=begin column, m=end column
WIDEPR   YES            YES or NO

F1=Help   F2=Split   F3=Exit   F4=CRetriev F6=Reset   F7=Back
F8=Forward F9=Swap   F10=Actions F12=Cancel
```

File Manager IMS has field help. Put your cursor under a field, and press PF1.

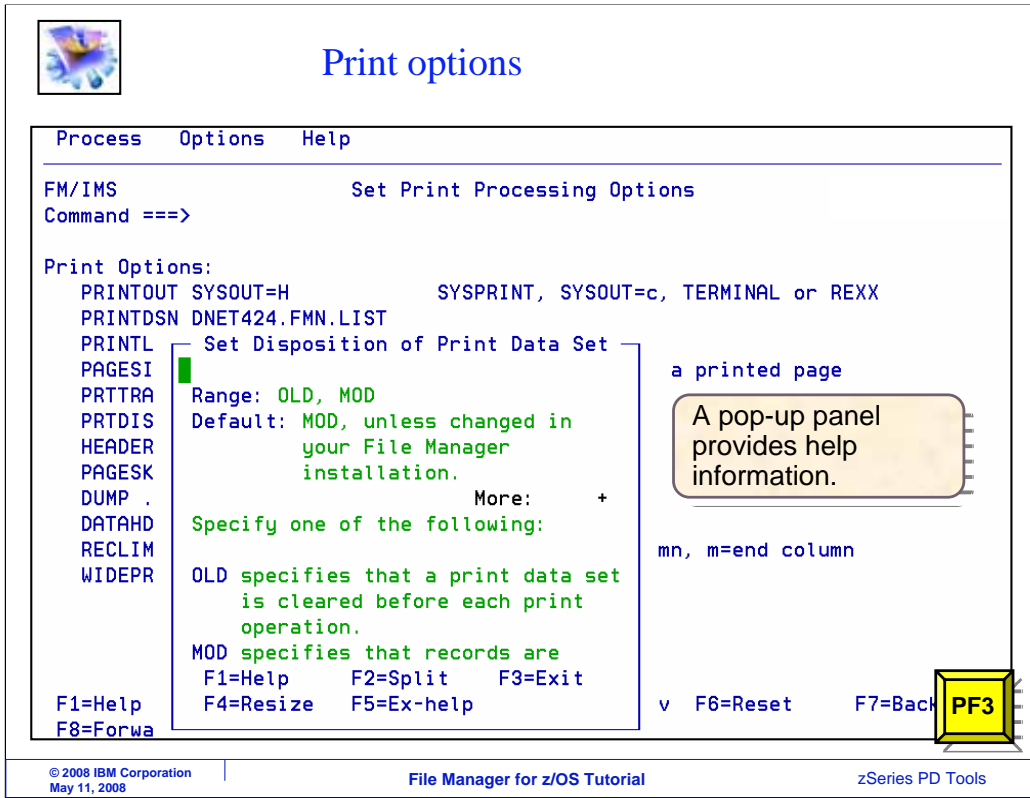
PF1

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Be aware that you can get field level help. To use it, put your cursor on a field, and press PF1.



The image shows a screenshot of a terminal window titled "Print options". At the top left is a small icon of a printer. The main title is "Print options". Below the title is a menu bar with "Process", "Options", and "Help". The main content area is titled "Set Print Processing Options" and shows a list of print options: PRINTOUT, PRINTDSN, PRINTL, PAGESI, PRTRRA, PRTRDIS, HEADER, PAGESK, DUMP, DATAHD, RECLIM, and WIDEPR. A green cursor is positioned next to the PAGESI option. A pop-up help panel is overlaid on the PAGESI option, containing the text: "a printed page", "A pop-up panel provides help information.", and "mn, m=end column". At the bottom of the terminal window, there are function key assignments: F1=Help, F2=Split, F3=Exit, F4=Resize, F5=Ex-help, F6=Reset, F7=Back, and F8=Forwa. A yellow box with "PF3" is highlighted at the bottom right of the terminal window.

```

Process  Options  Help
-----
FM/IMS          Set Print Processing Options
Command ==>

Print Options:
PRINTOUT SYSOUT=H          SYSPRINT, SYSOUT=c, TERMINAL or REXX
PRINTDSN DNET424.FMN.LIST
PRINTL   Set Disposition of Print Data Set
PAGESI   █
PRTRRA   Range: OLD, MOD
PRTRDIS  Default: MOD, unless changed in
HEADER   your File Manager
PAGESK   installation.
DUMP     More:      +
DATAHD   Specify one of the following:
RECLIM
WIDEPR

OLD specifies that a print data set
is cleared before each print
operation.
MOD specifies that records are
F1=Help   F2=Split   F3=Exit
F4=Resize F5=Ex-help

a printed page
A pop-up panel provides help
information.
mn, m=end column

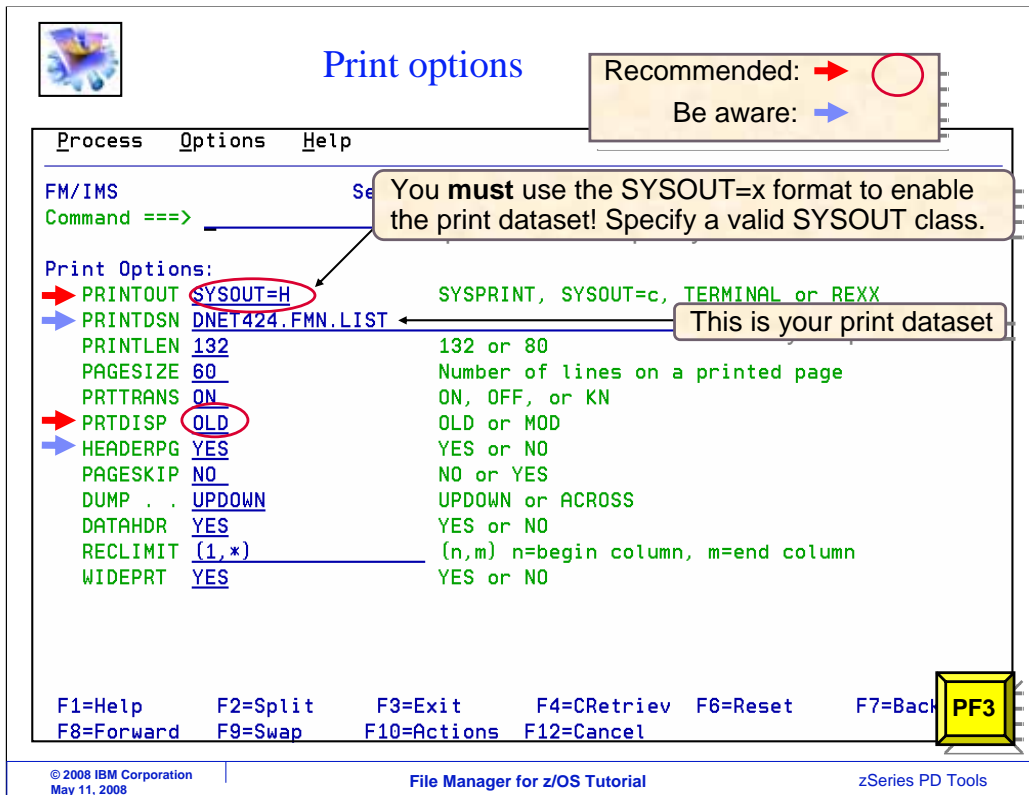
F1=Help   F2=Split   F3=Exit
F4=Resize F5=Ex-help
v F6=Reset F7=Back  PF3
F8=Forwa
  
```

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A pop-up panel will describe the field. Press PF3 to exit from the pop-up help panel.



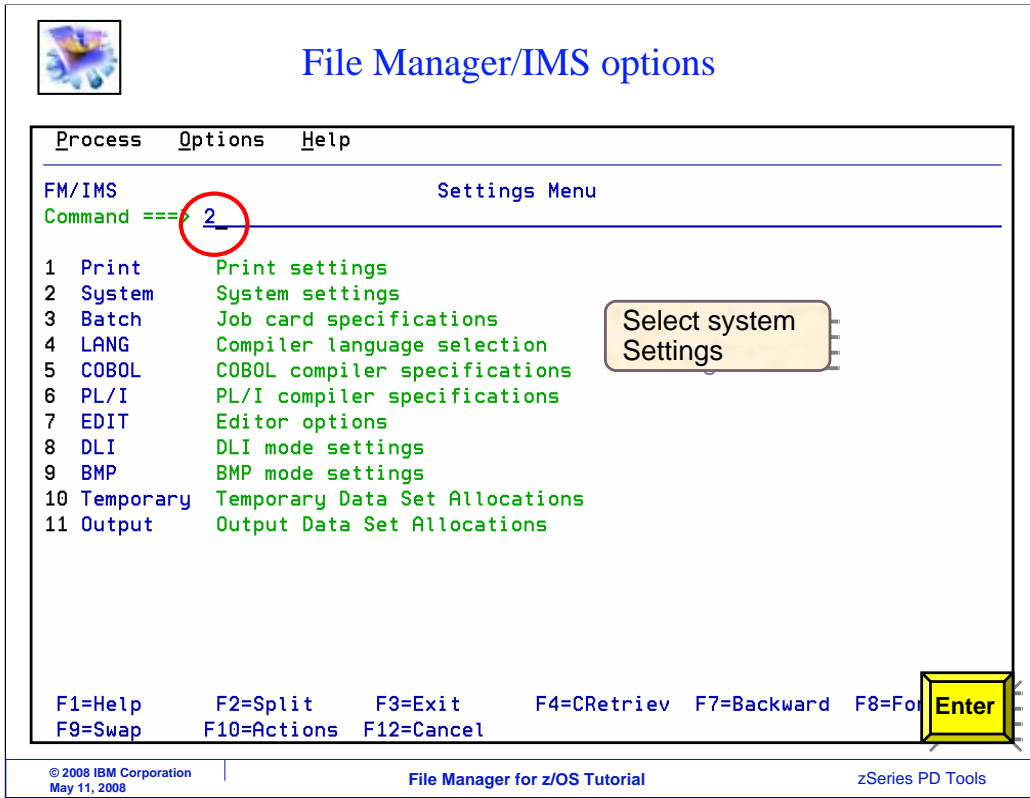
Here is the Set Print Processing Options panel. Options that you see with a red arrow are the suggested settings. Options shown with blue arrows are settings that you should consider, or at least be aware of.

It is strongly suggested that you change the PRINTOUT setting. The default setting sends the output of reports that you generate online to your terminal. If you have a large report, there would be page after page of output displayed on your screen. And that is probably not what you want.

Change the “Printout” setting to SYSOUT=X, where X is a held SYSOUT class that is valid on your system. If you are not sure which held SYSOUT classes are available on your system, take a look at one of your job cards, and use the same SYSOUT class that is coded on your job card. If you do not have any JCL that you can refer to, ask a colleague. And if all that fails, take a guess. It is better to guess than to leave it unchanged.

When you change this setting to a SYSOUT class, that also turns on the File Manager print data set. So when you do anything using the online panels that produces a report, the report is written to the print data set instead of to your screen.

Notice that the name of the print data set is shown on the second line: “PrintDSN”. After you generate a report, you can browse the print data set, and later send reports to SYSOUT if you want.



The image shows a terminal window titled "File Manager/IMS options". At the top left is a small icon of a globe. The title "File Manager/IMS options" is centered at the top in blue. Below the title is a menu bar with "Process", "Options", and "Help". The main area displays "FM/IMS" and "Settings Menu". A prompt "Command ==>" is followed by the number "2", which is circled in red. Below this is a list of 11 numbered options, each with a description. A yellow callout box with the text "Select system Settings" points to option 2. At the bottom of the main area, there are function key assignments: F1=Help, F2=Split, F3=Exit, F4=CRetriev, F7=Backward, F8=For, F9=Swap, F10=Actions, and F12=Cancel. A yellow "Enter" key icon is shown to the right of these assignments. The footer contains copyright information: "© 2008 IBM Corporation May 11, 2008", the title "File Manager for z/OS Tutorial", and "zSeries PD Tools".

```
Process  Options  Help
-----
FM/IMS                                     Settings Menu
Command ==> 2
-----
1 Print      Print settings
2 System     System settings
3 Batch      Job card specifications
4 LANG       Compiler language selection
5 COBOL      COBOL compiler specifications
6 PL/I       PL/I compiler specifications
7 EDIT       Editor options
8 DLI        DLI mode settings
9 BMP        BMP mode settings
10 Temporary Temporary Data Set Allocations
11 Output    Output Data Set Allocations

F1=Help      F2=Split    F3=Exit     F4=CRetriev F7=Backward F8=For
F9=Swap      F10=Actions F12=Cancel

Enter
```

Specify option 2 from the menu for system settings.

System settings

Process Options Help

FM/IMS System Settings

Command ==>

Options:

Enter "/" to select option

_ Fast PSB validation

PSB type

1 1. Dynamic

2. Static

Parameters:

Pad character (true)

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=For

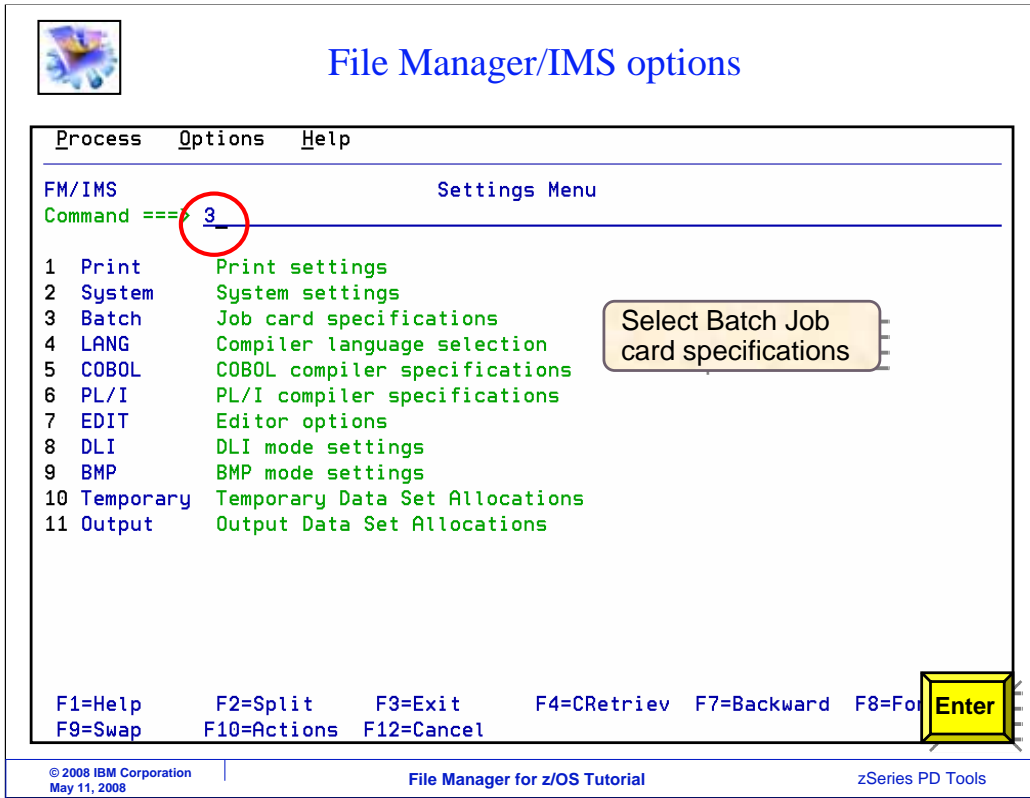
F9=Swap F10=Actions F12=Cancel

PF3

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You might select the fast PSB validation option if you use static PSBs and they have a large number of PCBs. This selection might improve your performance with File Manager IMS when you edit, browse, or extract data. It is recommended to leave the option blank unless it takes a long time to invoke File Manager browse and edit.

In the introduction, you learned that File Manager IMS can use either static or dynamic PSBs, and you specify that setting here. If your selection cannot be changed, then your installation only allows one type of PSB.

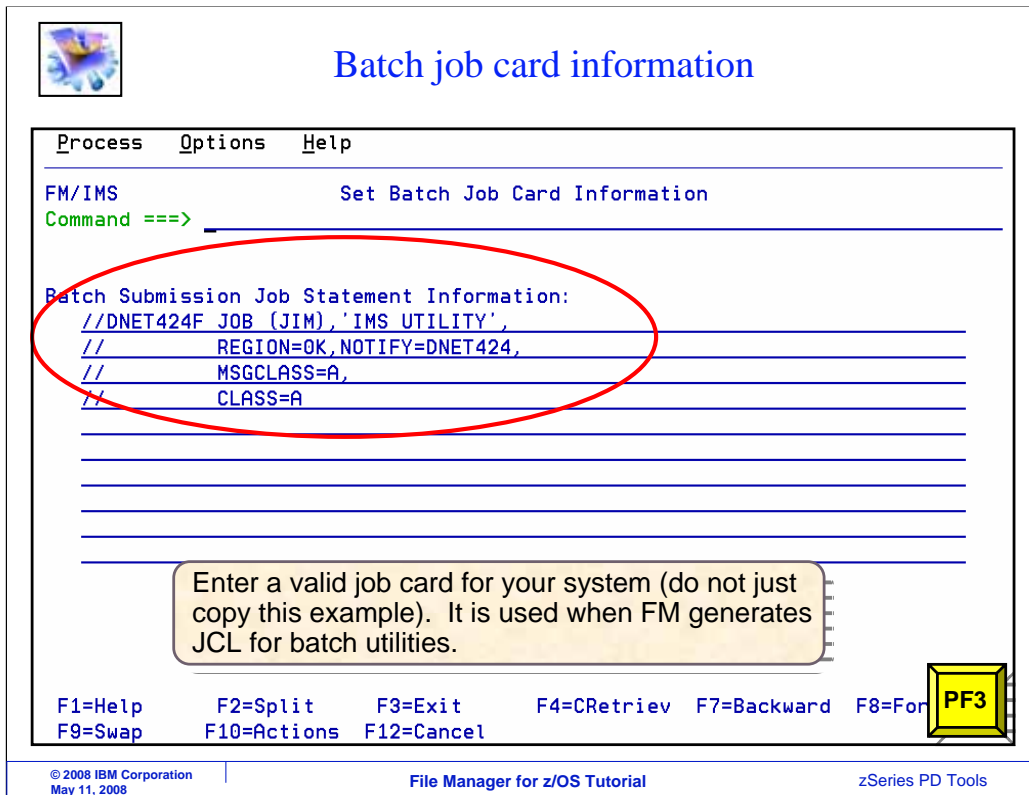


The image shows a terminal window titled "File Manager/IMS options". At the top left is a small icon of a globe. The title "File Manager/IMS options" is centered at the top in blue. Below the title is a menu bar with "Process", "Options", and "Help". The main area displays "FM/IMS Settings Menu" and "Command ==> 3", where the number "3" is circled in red. A list of 11 options is shown, with "3 Batch Job card specifications" highlighted. A yellow callout box points to this option with the text "Select Batch Job card specifications". At the bottom, there is a row of function key shortcuts: F1=Help, F2=Split, F3=Exit, F4=CRetriev, F7=Backward, F8=For, F9=Swap, F10=Actions, F12=Cancel. A yellow "Enter" key icon is also present. The footer contains copyright information: "© 2008 IBM Corporation May 11, 2008", "File Manager for z/OS Tutorial", and "zSeries PD Tools".

```
Process Options Help
FM/IMS Settings Menu
Command ==> 3
1 Print Print settings
2 System System settings
3 Batch Job card specifications
4 LANG Compiler language selection
5 COBOL COBOL compiler specifications
6 PL/I PL/I compiler specifications
7 EDIT Editor options
8 DLI DLI mode settings
9 BMP BMP mode settings
10 Temporary Temporary Data Set Allocations
11 Output Output Data Set Allocations

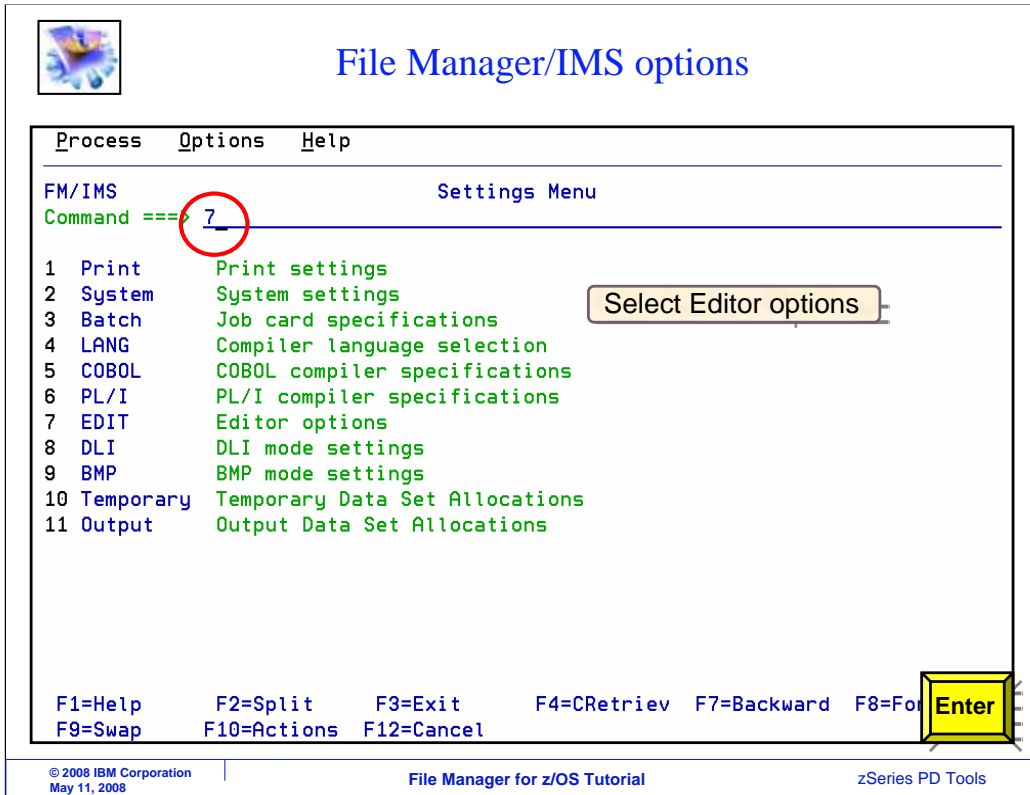
F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=For
F9=Swap F10=Actions F12=Cancel Enter
```

Specify option 3 from the menu for job card specifications.

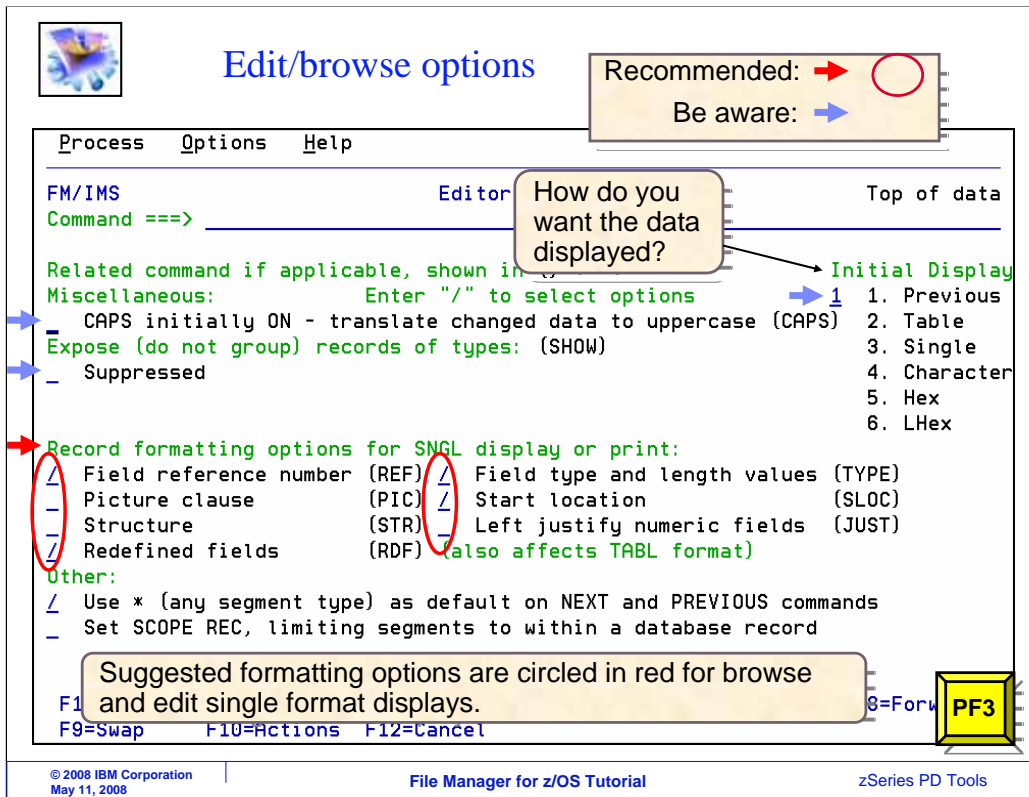


This is the Set Batch Job Card Information panel. These options only come into play when you use a function that generates JCL.

It is a good idea to specify a job card, and if you do, it will be placed into generated JCL. An easy way to do it is to cut and paste a job card from JCL that you have. The job card has to be valid for the unique requirements of your system, so do not just copy the example shown here.



Specify option 7 from the menu for editor options.



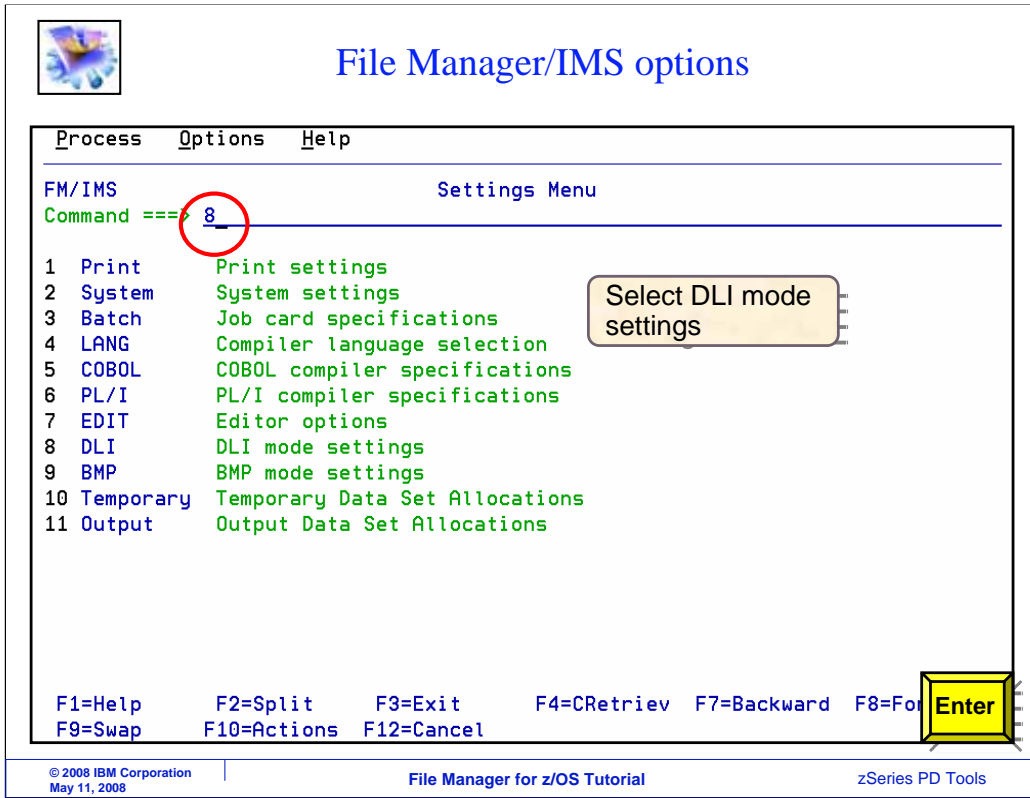
To select an option, or turn it on, type a slash next to it. To turn an option off, you type a space next to it, that is, remove the slash.

Be aware of the “CAPS initially on” setting. With this turned on, when you type alpha data in the editor, it is automatically converted to upper case. When this option is turned off, then there is not an automatic upper case conversion. Make sure it is set the way you want it. Either way, you can use the CAPS ON or CAPS OFF command in the editor to temporarily affect automatic case conversion.

The initial display controls how segment data is formatted when you enter browse or edit. The previous option remembers what format you used the last time and uses the same format the next time.

Notice the options in the category called “Record formatting options for SNGL display or print”. They control how many columns are displayed in Single format. You can select the Field reference number, Picture clause, Structure, Redefined fields, Field type and length values, Start location, and whether to left justify numeric fields.

The settings shown here are suggested. Regardless of how these are set, you can enter commands in browse and edit to turn these columns on and off. The equivalent commands are shown on this panel in parentheses next to the options. For example, REF is the command you can enter in the editor to toggle Field reference numbers on or off.



Specify option 8 from the menu for DLI mode settings.



DLI Mode options

```
Process  Options  Help
-----
FM/IMS          DLI Mode Settings Menu
Command ==> 1
-----
1 Parameters Parameters passed to the IMS region controller
2 Data sets 1 DFSVSAMP, RESLIB and IMS macros data set names
3 Data sets 2 RECON and ACBLIB data set names
4 Options Autosave, checkpoint frequencies and PROCOPTs

IMS Subsystem Name  IMSB
-----
F1=Help    F2=Split    F3=Exit    F4=CRetriev  F7=Backward  F8=Forw
F9=Swap    F10=Actions F12=Cancel

Enter
```

For BMP access, enter the name of the IMS region controller associated with BMP regions.

For DLI mode, this value is used to define the default settings by IMS subsystem.

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There are 4 DLI mode settings panels. These options apply when you are accessing a database in DLI mode, and are ignored when using BMP mode. Option one, parameters, is selected.

DLI Mode options

Recommended: → ○
Be aware: →

Process Options Help

FM/IMS DLI Mode Parameters

Command ==>

Subsystem IMSB

Options:
Enter "/" to select option
→ / Dynamic backout

DBRC → 2 1. Use DBRC
2. Do not use DBRC
3. Subsystem default

IRLM → 2 1. Use IRLM
2. Do not use IRLM
3. Subsystem default

Parameters:
IRLMNM . . .
GSGNAME . . .
TMINAME . . .
BUF . . .
LOCKMAX . . .

F1=Help F2=Split F3=Exit F4=CRetrieve F7=Backward F8=Forward
F9=Swap F10=Actions F12=Cancel

PF3

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If you are using your own set of DLI databases, you may not be concerned about back out, and you can opt to have the “dynamic backout” option turned off. If you want to perform a dynamic backout when an IMS pseudo-abend occurs in a File Manager IMS edit session, or if you plan to use the Undo or cancel command when editing a database in DLI Mode, choose the Dynamic Backout option. When this option is on, you must select an IMS log file on the File Manager IMS edit panel.

If the Internal Resource Lock Manager is used, choose the IRLM option, and also provide the IRLM name.



DLI Mode options

Process Options Help

FM/IMS DLI Mode Settings Menu

Command ==> 2

1 Parameters Parameters passed to the IMS region controller
2 Data sets 1 DFSVSAMP, RESLIB and IMS macros data set names
3 Data sets 2 RECON and ACBLIB data set names
4 Options Autosave, checkpoint frequencies and PROCOPTs

IMS Subsystem Name IMSB

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=Forw **PF3**
F9=Swap F10=Actions F12=Cancel

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On the DLI mode settings menu, specify option 2 for data sets one.

DLI Mode options

Recommended: → ○
Be aware: →

Process Options Help

FM/IMS DLI Mode Data Sets 1
Command ==>

Subsystem IMSB

DFSVSAMP:
→ Data set name . . 'IMS.V8R1.PROCLIB'
→ Member DFSVSMQA

RESLIB:
→ Data set name #1 'IMS.V8R1.SDFSRESL'
Data set name #2 _____
Data set name #3 _____
Data set name #4 _____
Data set name #5 _____
Data set name #6 _____

IMS Macros:
→ Data set name . . 'IMS.V8R1.SDFSMACT'

F1=Help F2=Split F3=Exit F4=CRetrieval F7=Backward F8=Forward
F9=Swap F10=Actions F12=Cancel

PF3

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The information on this screen is required. However, these values are defaulted by your IMS systems programmer when File Manager/IMS is installed.

If they are accurate for your DLI databases, no further changes are required. Otherwise, change the values as needed. The values can be different for each IMS subsystem.

The information on this screen is required. However, these values are typically set to defaults by the person who installed and configured File Manager/IMS.

If they are accurate for your DLI databases, no further changes are required. Or change the values as needed. The values can be different for each IMS subsystem.



DLI Mode options

Process Options Help

FM/IMS DLI Mode Settings Menu

Command ==> **3**

1 Parameters Parameters passed to the IMS region controller
2 Data sets 1 DFSVSAMP, RESLIB and IMS macros data set names
3 Data sets 2 RECON and ACBLIB data set names
4 Options Autosave, checkpoint frequencies and PROCOPTs

IMS Subsystem Name IMSB

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=Forw **PF3**
F9=Swap F10=Actions F12=Cancel

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On the DLI mode settings menu, specify option 3 for data sets two.

DLI Mode options

Recommended: → ○
Be aware: →

Process Options Help

FM/IMS DLI Mode Data Sets 2
Command ==>

Subsystem IMSB

RECON:
→ Primary data set _____
Secondary _____
Spare _____

ACBLIB:
→ Data set name . . 'IMS.V8R1.IMSB.ACBLIB'

Leave the RECON datasets blank, unless needed. Use PF1 to see more information.

ACBLIB is required only for Fast Path IMS databases.

F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=Forw
F9=Swap F10=Actions F12=Cancel

PF3

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On this panel, you can specify the names of the Recon data sets, if they are needed on your system. The ACBLIB can also be specified, but it is only required when accessing IMS fast path databases.



DLI Mode options

```
Process  Options  Help
-----
FM/IMS                                     DLI Mode Settings Menu
Command ==> 4
-----
1 Parameters Parameters passed to the IMS region controller
2 Data sets 1 DFSVSAMP, RESLIB and IMS macros data set names
3 Data sets 2 RECON and ACBLIB data set names
4 Options Autosave, checkpoint frequencies and PROCOPTs

IMS Subsystem Name  IMSB

F1=Help    F2=Split    F3=Exit    F4=CRetriev  F7=Backward  F8=Forw
F9=Swap    F10=Actions  F12=Cancel

PF3
```

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On the DLI mode settings menu, specify option 4 for options.

DLI Mode options

Recommended: → ○
Be aware: →

Process Options Help

FM/IMS DLI Mode Options
Command ==>

Subsystem IMSB

Options:
Enter "/" to select option
→ / Autosave ←

Checkpoint Frequencies:
→ Edit 1
Change All/Repeat All 100
Load 100
Batch Edit 100

PSB Processing Options:
Browse Extract Print Batch Browse
1 1. G 1 1. G 1 1. G 1 1. G
2. GO 2. GO 2. GO 2. GO

F1=Help F2=Split F3=Exit F4=PF3 F5=View F7=Backward F8=Forward
F9=Swap F10=Actions F12=Cancel

Annotations:
- Autosave On issues saves after updates. It can be used to minimize locking IMS segments. Recommended for IMS production environments.
- A PROCOPT of **G** reads with integrity. **GO** reads without integrity.

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Consider whether you want to have the autosave option on. It will force an automatic save of your changes, and it works in conjunction with the checkpoint frequencies. For example, you could have an edit checkpoint frequency of one, and autosave on. Then the editor would checkpoint every time you make an update or press enter. Keep in mind that CANCEL or UNDO commands in the editor will not back out the changes made before the last checkpoint.

The PSB processing options control how File Manager reads data when using a dynamic PSB. Use processing option G to read with integrity, or G-O to read without integrity. You can modify the default processing options for the Browse, Extract, print, and batch browse functions.

That is the end of this section, your File Manager IMS options settings.



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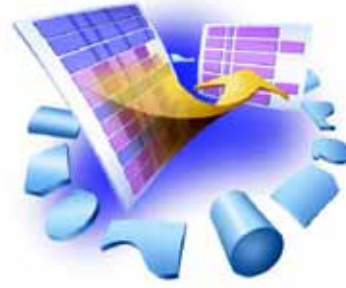


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