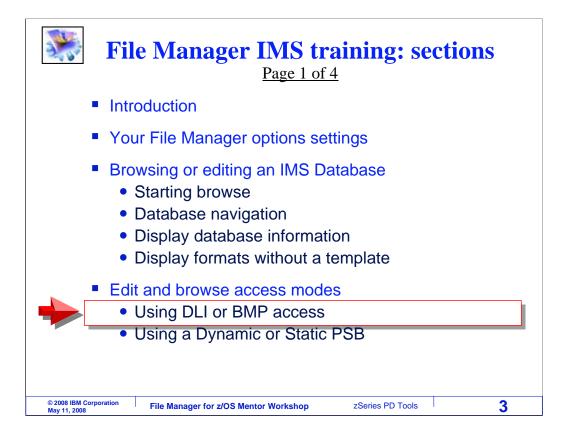


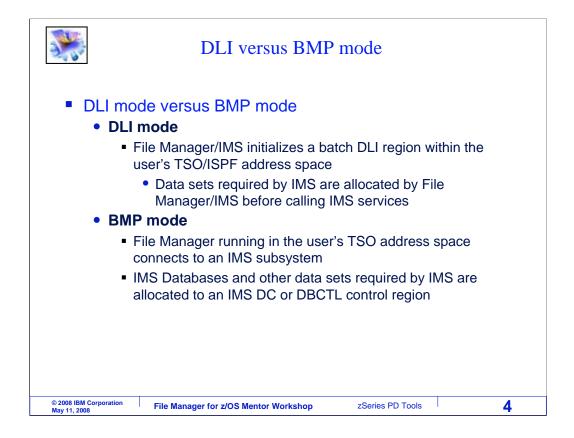
Welcome to the tutorial for the IMS feature of IBM's File Manager for z/OS, one of the IBM zSeries problem determination tools.

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



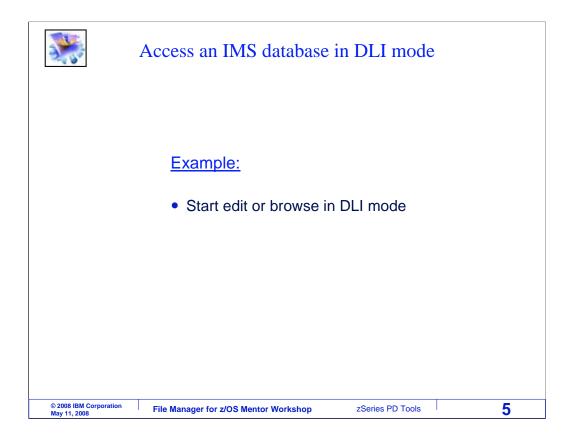
In this section, you will see examples of accessing IMS databases in both DLI mode and BMP mode. You will also see how to use both a dynamic PSB and a static PSB.



The IMS database manager provides different ways for IMS databases to be accessed. DLI mode and BMP mode. This is the case for any application or address space that accesses IMS databases. File Manager can access data bases in either mode.

When an IMS database is accessed in DLI mode by File Manager, the data sets required by IMS, including the data sets that contain the databases, are allocated by File Manager. If you are using File Manager from TSO, for example, the IMS data sets are allocated to your TSO region to provide access. In DLI mode, you can specify the names of the data base data sets, so you can use your own data bases if required.

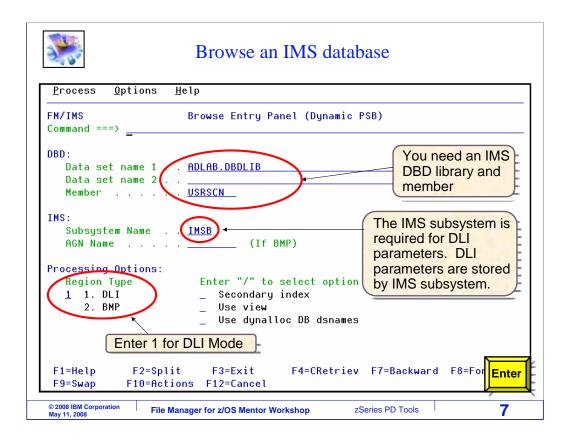
By contrast, when you access an IMS database in BMP mode, File Manager connects to an IMS subsystem. IMS databases and other data sets needed by IMS are allocated to the control region. In BMP mode, you can only use the data bases owned by the IMS control region.



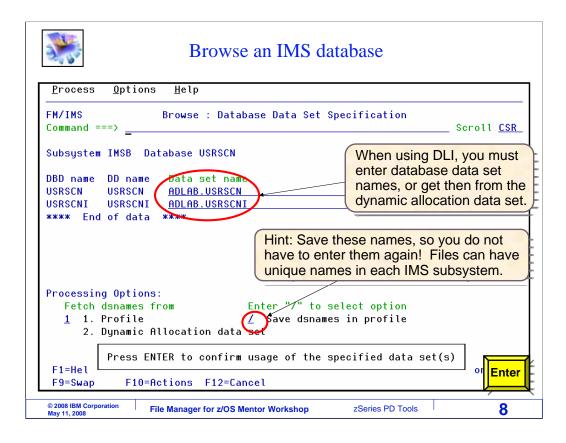
In the next example, an IMS database will be browsed in DLI mode.

Process Options Help FM/IMS Primary Option Menu Command ===	*	Browse a database		
1 Browse Browse data System ID : DEMOMVS 2 Edit Edit data Appl ID . : FMN1 3 Utilities Perform utility functions Version . : 8.1.0 4 Templates Template/view/criteria set utilities Terminal. : 3278A X Exit Terminate FM/IMS Screen : 1 Date : 2007/10/ Time : 09:31	FM/IMS			
F1=Help F2=Split F3=Exit F4=CRetriev F7=Backward F8=Fo	1 Browse 2 Edit 3 Utilities 4 Templates	Browse data Edit data Perform utility functions Template/view/criteria set utilities	System ID Appl ID . Version . Terminal. Screen Date	: DEMOMVS : FMN1 : 8.1.0 : 3278A : 1 : 2007/10/23
F9=Swap F10=Actions F12=Cancel		······································	-7=Backward	F8=Foi

From the menu, the browse option is selected.



To browse or edit a database, you must specify a DBD. Provide the DBD library and member name. In the lower left area of the panel, specify option 1 for DLI in the "region type" field. You must also specify an IMS subsystem name. Subsystem names are defined by the person who installs File Manager. If you do not know what subsystem names are defined, leave the subsystem name field blank, and a list will be displayed. Press Enter to continue.

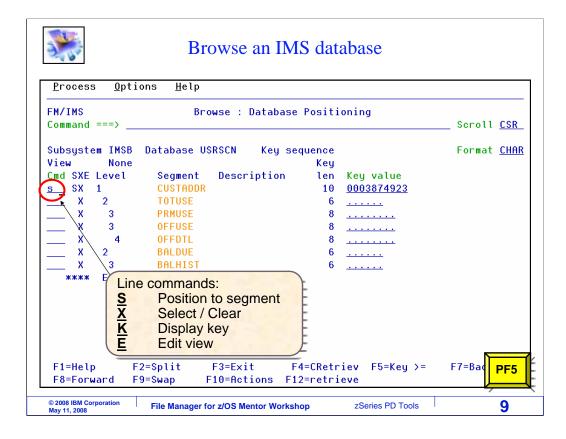


When you are in DLI mode, this panel is displayed next, the database data set specification panel. Provide the names of the database data sets. The number of files needed depends on what was defined in the DBD.

On some systems, file names can be defined in something called a "dynamic allocation data set". If you want to retrieve the file names from the dynamic allocation data set, you can select option 2 in the "fetch dsnames from" setting, and press Enter.

Select the "save dsnames in profile" option to save the data set names in your profile. That can be important, because then you will not have to retype the same names the next time you use the same DBD. So be sure to select the "save dsnames" option unless you intend to retype the file names each time.

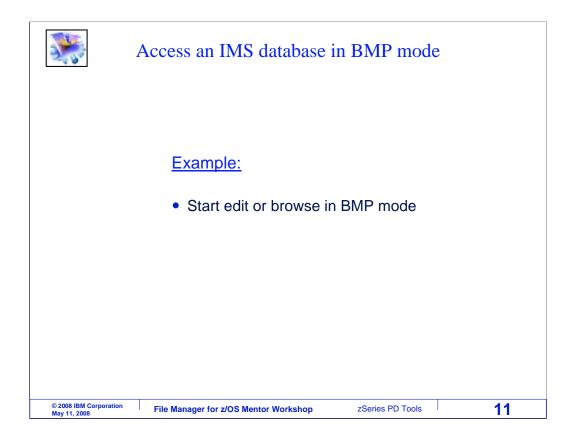
Press Enter to continue.



Next the database positioning panel is displayed. Select a segment type with an S line command. Press Enter to position to a segment with a matching key value, or press PF5 to search for a segment with a key that is greater than or equal to the value specified.

			n IMS datab		
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp			
FM/IMS Command ==	==>	Browse	: IMS Database		Scroll CSR
	_		Scope	DB Col 1	Format CHA
Cmd Level	Segment	+1+-	3	+4+	+5+
1	CUSTADDR	**** Top of wi 000387492332 <u>7</u> 33		FAL 0	666 PRA
2	TOTUSE	200303MA			
3	PRMUSE	200303010000000	2000000070000	You are posit	
3	PRMUSE	20030302000000	1000000035000	the segment	
3	PRMUSE	200303030000000	10000003500	Key Value se	
3	PRMUSE	200303050000000	1500000052500	the previous	panel.
3	PRMUSE	200303060000000	1000000035000		
3	PRMUSE	20030307000000.0		Keys are sho	wn in
3	PRMUSE	200303080000000		black, and da	
3	PRMUSE	200303090000000		black, and ac	
3	PRMUSE	200303100000000			
3 3	PRMUSE	200303110000000			
3	PRMUSE	200303120000000			
3	PRMUSE	200303130000000			
F1=Help	F2=Fo		F4=CRetrie	v E5=RFind	F6=RChange
F7=Up		wn F9=Swap			F12=retrieve

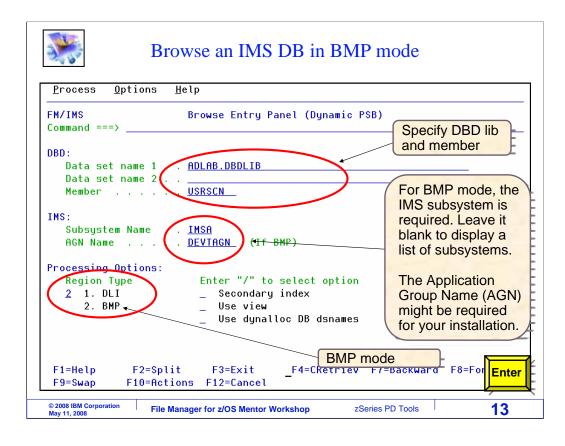
And the browse panel is displayed. That was an example of using browse or edit to access a database in DLI mode.



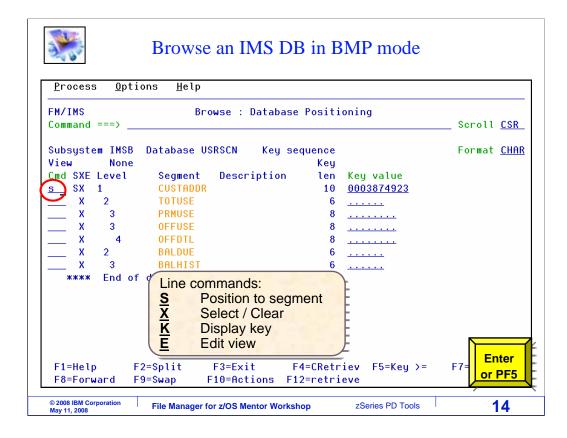
In the next example, an IMS database will be browsed in BMP mode.

Process Opt FM/IMS Command ===	tions <u>H</u> elp Primary Option Menu		
0 Settings 1 Browse 2 Edit 3 Utilities 4 Templates X Exit	Set processing options Browse data Edit data Perform utility functions Template/view/criteria set utilities Terminate FM/IMS	User ID . System ID Appl ID . Version . Terminal. Screen Date Time	: DEMOMVS : FMN1 : 8.1.0 : 3278A : 1 : 2007/10/23
	F2=Split F3=Exit F4=CRetriev F F10=Actions F12=Cancel	7=Backward F	F8=F0

From the menu, the browse option is selected.



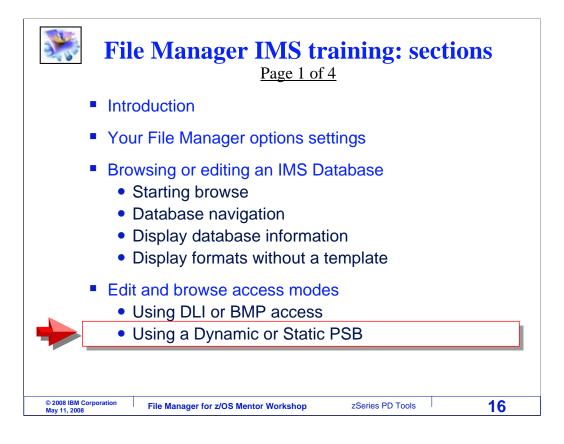
To browse or edit a database, specify a DBD by providing the DBD library and member name. In the lower left area of the panel, specify 2 for BMP in the "region type" field. You must also specify an IMS subsystem name. Subsystem names are defined by a data base administrator. On some systems, you may also be required to enter an AGN, or application group name. AGNs are used on some systems for additional access security. Press Enter to continue.



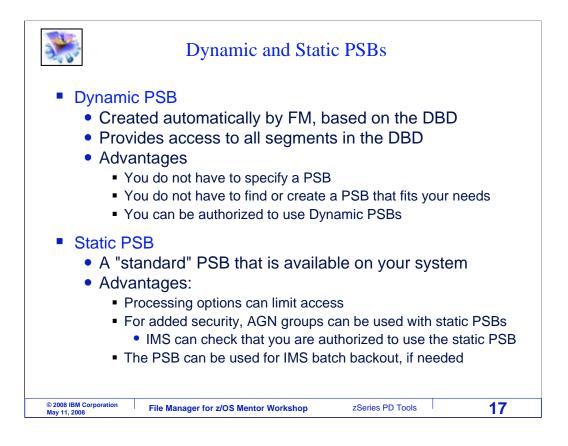
The database positioning panel is displayed. Select a segment type with an S line command. Press Enter or PF5 to continue.

20		Diowse a	n IMS datab	Jase	
<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp			
FM/IMS Command ==	==>	Browse	: IMS Database		Scroll CSR
o o i i i i di i di			Scope	DB Col 1	Format CHA
Cmd Level	Segment	+			
1	CUSTADDR	**** Top of w 000387492332 <u>7</u> 33			666 PRA
2	TOTUSE	200303MA			
— ² 3	PRMUSE	200303010000000		You are posit	
3	PRMUSE	200303020000000		the segment	
3	PRMUSE	200303030000000		Key Value se	elected on
3	PRMUSE	20030305000000		the previous	panel.
3	PRMUSE	20030306000000	100000035000	1.	
3	PRMUSE	20030307000000.	0200000007000	Keys are sho	wn in
3	PRMUSE	20030308000000	2000000070000	black, and da	
3	PRMUSE	20030309000000	2500000122500 🚿	DIACK, and ua	ata in blue.
3	PRMUSE	20030310000000	1000000035000		
3	PRMUSE	200303110000000			
3	PRMUSE	20030312000000			
3	PRMUSE	20030313000000			
3	PRMUSE	20030314000000			
F1=Help	F2=Fo		F4=CRetrie		F6=RChange
F7=Up	F8=Do	wn F9=Swap	F10=Left	F11=Right	F12=retrieve

And the browse panel is displayed. That was an example of using browse or edit to access a data base in BMP mode.



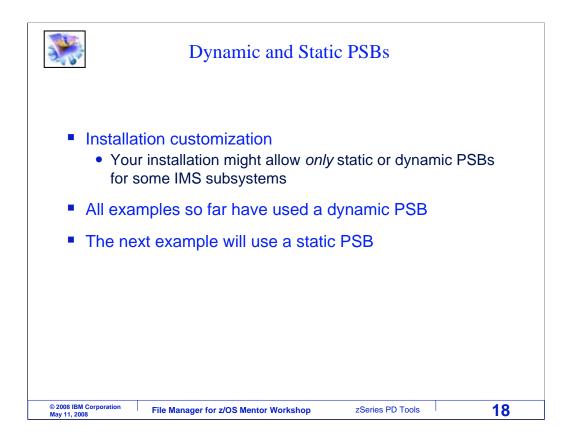
Next you will learn how to use dynamic PSBs and static PSBs.



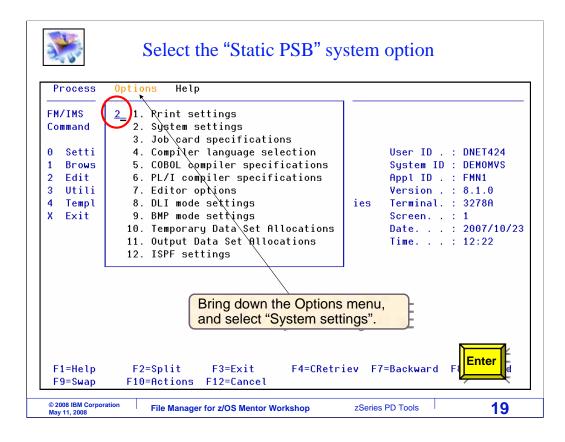
When a program accesses an IMS database, it uses a PSB, or program specification block, to communicate with IMS and map the segments that it can access. In File Manager, you can either use a dynamic or static PSB.

A dynamic PSB is a PSB created automatically by File Manager. It is based on the DBD, and gives you access to all segments in the DBD. There are some advantages to using a dynamic PSB. First, you do not have to identify or create a PSB that fits your needs and gives you access to the right segments. And you do not have to specify a PSB to File Manager.

A static PSB is a PSB that is available on your system; it could be a PSB that is used by your application programs. The advantages are that options in the PSB can limit access to certain segments. AGN groups can be used with static PSBs for added security. And the PSB can be used for IMS batch backout, if required.



Be aware that your installation might allow the use of only static or dynamic PSBs for some IMS subsystems. All of the examples that have been shown so far have used a dynamic PSB. The next example will show how to use a static PSB.



You control whether to use a dynamic or static PSB in your File Manager IMS options. One way to get to the options panels is from the Options menu. First, put your cursor on the word Options in the menu, and press Enter. On the pull-down panel, select "system settings". Enter.

*	Select the "Static PSB" system option	
<u>P</u> rocess <u>O</u> p	tions <u>H</u> elp	1
FM/IMS Command ===>	System Settings	
Parameters: Pad charac	ter (Character or hex value)	
	F2=Split F3=Exit F4=CRetriev F7=Backward F8=For PF3 F10=Actions F12=Cancel	
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In the system settings, set the PSB type to 2 for static. PF3 to return to the menu.

*	Start browse or edit	
<u>Process O</u> p	otions <u>H</u> elp	
FM/IMS Command ===	Primary Option Menu	
0 Settings 1 Browse 2 Edit 3 Utilities 4 Templates X Exit	Set processing options Browse data Edit data Perform utility functions Template/view/criteria set utilities Terminate FM/IMS	User ID . : DNET424 System ID : DEMOMVS Appl ID . : FMN1 Version . : 8.1.0 Terminal. : 3278A Screen : 1 Date : 2007/10/23 Time : 12:25
F1=Help F9=Swap	F2=Split F3=Exit F4=CRetriev F F10=Actions F12=Cancel	Enter 7=Backward F8=Forward
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From the menu, the browse option is selected.

Specify the PSB on the browse	
<u>Process Options H</u> elp FM/IMS Browse Entry Panel (Static PS Command ===> PSB:	Specify the PSB library and member name. You must use a PSB/PCB with the segments and access that you need.
Data set name <u>ADLAB.PSBLIB</u> Member <u>USRSCNG</u> DBD: Data set name 1 ADLAB.DBDLIB	
Data set name 2 Member <u>USRSCN</u>	
Subsystem Name IMSA the l	ere are multiple PCBs in PSB, a selection list is layed.
Processing Options:Region TypeEnter "/" to select option21. DLI2. BMPUse view2. BMPUse dynalloc DB dsnames	
F1=Help F2=Split F3=Exit F4=CRetriev F9=Swap F10=Actions F12=Cancel	F7=Backward F
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And the Browse Entry panel is displayed. Notice that now there are fields on this panel for the PSB. These fields did not appear when the PSB type option was set to dynamic. Enter the name of the PSB library and PSB member.

Specify a DBD by providing the DBD library and member name. Also specify the IMS subsystem name and region type as required. Enter to continue.

*	Browse with a static PSB	
<u>P</u> rocess <u>O</u> ption	ns <u>H</u> elp Browse : Database Positioning	
Command ===>	browse . Database rositioning	Scroll <u>CSR_</u>
Subsystem IMSB View None Cmd SXE Level S SX 1 X 2 X 3 X 3 X 3 X 4 **** End of	Database USRSCN Key sequence Key Segment Description len Key value CUSTADDR 10 <u>0003874923</u> TOTUSE 6 PRMUSE 8 OFFUSE 8 OFFDTL 8 data ****	Format <u>CHAR</u>
	Only the segments defined by the PCB are available. The rest of the panels are the same as with a dynamic PSB.	
	=Split F3=Exit F4=CRetriev F5=Key >= =Swap F10=Actions F12=retrieve	F7=Bad Enter
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If there are multiple PCBs (program control blocks) in the PSB, you will be prompted with a list where you can select a PCB. In this example, there was only one PCB in the PSB, so it was selected automatically. The database positioning panel is displayed. Select a segment type with an S line command. Press Enter or PF5 to continue.

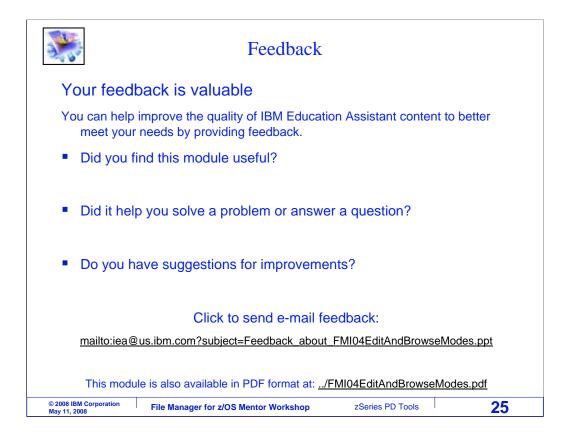
Browse with a static PSB ∐elp <u>O</u>ptions <u>P</u>rocess Browse : IMS Database USRSCN Command ===> Scroll <u>CSR</u> Scope DB Col 1 _ Format <u>CHAR</u> ----+ Cmd Level Segment -2---+----3----+----4----+----5----+---1 1.1

FM/IMS

	3 PRMUSE 3 PRMUSE)200000007000()110000003850(-	
	3 PRMUSE			1000000035000	-	
	3 PRMUSE	2003031	10000000	1500000052500)	
	3 PRMUSE	2003031	00000000	1000000035000		
	3 PRMUSE	2003030	90000000	2500000122500	coded in	n the PCB.
	3 PRMUSE	2003030	80000000	2000000070000		its and options
	3 PRMUSE	2003030	7000000.	0200000007000		
	3 PRMUSE	2003030	60000000	1000000035000		ed by the
	3 PRMUSE	2003030	50000000	1500000052500	Your ac	cess is
	3 PRMUSE			0100000003500		
	3 PRMUSE			1000000035000		
	3 PRMUSE			2000000070000)	
1			A		OTTILO	000 1 11
1	CUSTADE	NR 0003874	92222723	325564BILL B.	LIFEAL O	666 PRA

And the browse panel is displayed. You will only see segments that are defined in the PSB, and your access may be restricted depending on the processing options in the PSB. That was an example for using browse or edit to access a database using a static PSB.

That is the end of this section, edit and browse access modes.



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