



This is the tutorial for the IMS™ feature of IBM's File Manager for z/OS®, one of the IBM zSeries® problem determination tools.

- **Creating templates**

- About templates and views
- Create or update a template



- **Browse or edit an IMS database with a template**

- Starting the editor
- The display formats and zoom
- Display different segment types
- Find, change, scope, and locate data
- Insert, repeat, repeat all, and delete segments
- Print from the editor
- End, quit, save, undo and cancel

In this section, you will learn how to browse or edit a data base using a template. This section is broken out into three parts. This is part one, and it will cover starting the editor, the display formats and zoom, and displaying different segment types.

Select Edit



```
Process  Options  Help
-----
FM/IMS                                     Primary Option Menu
Command ==>> 2
```

0	Settings	Set processing options	User ID . . : DNET845
1	Browse	Browse data	System ID : DEMOMVS
2	Edit	Edit data	Appl ID . : FMN1
3	Utilities	Perform utility functions	Version . . : 10.1.0
4	Templates	Template/view/criteria set utilities	Terminal . : 3278
X	Exit	Terminate FM/IMS	Screen . . : 1
			Date . . . : 2010/01/09
			Time . . . : 20:39

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

Enter

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To start the editor, select option two from the File Manager IMS main menu. Enter.

Select the IMS subsystem and database name



```
Process  Options  Help
-----
FM/IMS                               Edit Entry Panel
Command ==>>> █

IMS:
Subsystem name . . . IMSB             PSB name . . . _____ (If static PSB)
Database name . . . USRSCN          AGN name . . . _____ (If BMP)
View:
Data set name . . . _____
Member . . . . . _____

Processing Options:
PSB type           Region type           Fetch DB dsnames from (if DLI)
 1 1. Dynamic      1 1. DLI                1 1. User profile
 2 2. Static       2 2. BMP                2 2. DFSMDA members

View usage         IMS log (if DLI)       Enter "/" to select option
 1 1. New          3 1. Keep              _ Secondary index (if dynamic PSB)
 2 2. Existing    2 2. Delete            _ Create audit trail
 3 3. None        3 3. None              _ Skip DB data set panel (if DLI)

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

Enter
```

Existing (previously saved) views can be entered here

On the "edit entry panel", specify a subsystem name, and specify a DBD name in the "database name" field. Other options, such as PSB type and Region type should be set as needed for your system and database.

In File Manager IMS, templates are used in conjunction with views. If a view is used, then a template is used. If no view is used, then no template is used.

In the previous examples of browse and edit, the "view usage" option has been set to "3" (none), and neither a template nor view was used. If it is set to either "1" or "2", then a template and a view will be used. Since in this example, no views have previously been created, a new view will be created by specifying "1" (new) as the "view usage" option.

File Manager will read the template to get layout information for each segment. The template library search list is maintained in your options settings. After reading the template, it will create a new view in memory. Enter is pressed.

In DLI mode, specify database data sets



```
Process  Options  Help
-----
FM/IMS          Edit : Database Data Set Specification
Command ==>>> |_____ Scroll CSR


Subsystem IMSB Database USRSCN

DBD name DD name Data set name
USRSCN   USRSCN   ADLAB.USRSCN
USRSCNI  USRSCNI  ADLAB.USRSCNI
**** End of data ****

Processing Options:
Fetch dsnames from          Enter "/" to select option
 1 1. User profile          / Save dsnames in profile
 2 DFSMDA members

Press ENTER to confirm usage of the specified data set(s)

F1=Hel  F9=Swap  F10=Actions  F12=Cancel
```



When you are accessing a database in DLI mode, this panel is displayed, where you specify the names of the data base data sets. Type in or retrieve the data set names, and press Enter.

Position to a segment in the database



```
Process  Options  Help
-----  -
FM/IMS          Edit : Database Positioning          Chkpt FM000001 taken
Command ==>>> _____ Scroll CSR

Subsystem IMSB Database USRSCN      Key sequence          Format TABL
View      Temporary      Key
Cmd SXE Level  Segment Description      len Key value
--- X  1  CUSTADDR Cust Addr      10 0003874923
--- X  2  TOTUSE  Total Usage     6  .....
--- X  3  PRMUSE  Primary Usage   8  .....
--- X  3  OFFUSE  Off Prime Usage 8  .....
--- X  4  OFFDTL  Off Prime Dctl 8  .....
--- X  2  BALDUE  Balance Due     6  .....
--- X  3  BALHIST Balance Detail  6  .....
**** End of data ****

F1=Help      F2=Split      F3=Exit      F4=CRetriev  F5=Key >=   F7=Ba
F8=Forward   F9=Swap       F10=Actions  F12=Cancel

Enter
```

Next, the database positioning panel is displayed. A segment type is selected with an S line command. Press Enter or F5 to continue.

With a template, field layouts are shown



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> █

Scroll CSR

Cmd	Level	Segment	Field 1	Field 2	Field 3
			SEGA-ACCOUNT-NUMBER	SEGA-CUSTOMER-PHONE-NB	SEGA-CUSTOMER-N
		#2	#3	#4	
		AN 1:10	AN 11:10	AN 21:30	
		<----->	<----->	<-----1----->	
		**** Top of window ****			
---	1	CUSTADDR	0003874923	3273325564	BILL BUFFALO JR
---	2	TOTUSE	Key=200303		
---	3	PRMUSE	29 segments		
---	3	OFFUSE	Key=20030301		
---	4	OFFDTL	3 segments		
---	3	OFFUSE	Key=20030302		
---	4	OFFDTL	1 segment		
---	3	OFFUSE	Key=20030303		
---	4	OFFDTL	2 segments		
---	3	OFFUSE	Key=20030304		
---	4	OFFDTL	1 segment		
---	3	OFFUSE	Key=20030305		

Copybook field names are used.
Green data fields can be updated.

F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

The File Manager editor is displayed. Now that a template and view are being used, segments are broken out into fields. The field names are displayed as column headings above the data. In the editor, fields that appear in green can be updated.

File Manager IMS tutorial



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Next, the display formats that are available when you are using a template and view will be described.

Display formats with a template and view



- Additional formats are available when a template is used:
 - Table format
 - Single format
- The following formats are available with or without template use:
 - Character format
 - Hex format
 - Lhex format

When you use a template and view, there are a couple of additional data formats available: table and single. And you can still use the formats that were presented in earlier sections: character, hex, and lhex.

Use Format Table (FT) line command to change to table format



Command ==> **FT** **Enter**

```

FM/IMS                               Edit : IMS Database USRSCN
Command ==>
CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format TABL
SEGA-ACCOUNT-NUMBER SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-N
Cmd Level Segment #2 #3 #4 +
AN 1:10 AN 11:10 AN 21:30
<-----> <-----> <-----1----->
**** Top of window ****
 1 CUSTADDR 0003874923 3273325564 BILL BUFFALO JR
 2 TOTUSE Key=200303
 3 PRMUSE 29 segments
 3 OFFUSE Key=20030301
 4 OFFDTL 3 segments
 3 OFFUSE Key=20030302
 4 OFFDTL 1 segment
 3 OFFUSE Key=20030303
 4 OFFDTL 2 segments
 3 OFFUSE Key=20030304
 4 OFFDTL 1 segment
 3 OFFUSE Key=20030305
F1=Help F2=Format F3=Exit F4=CRetrieve
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
    
```

Primary or line format commands:

FT Format Table
FS Format Single
FH Format Hex
FC Format Character
FL Format Long Hex

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Remember that there are commands that start with the letter F to switch the format. The FT command switches to Table format. In table format, as shown here, fields in segments are shown as columns. In this example, a root segment is the currently positioned segment. Therefore, the fields for the root segment are the column headings. Data for other segment types are not displayed, since they do not match the column headings. Instead, for other segment types, segment counts or key values are shown.

Ways to change the display format



The screenshot shows the 'Edit : IMS Database USRSCN' screen. At the top, there are menu options: Process, Options, and Help. Below this, the command line shows 'Command ==> fs' with a cursor. The main area displays a table with columns for 'Cmd', 'Level', 'Segment', and data fields. The data fields include 'CHRID', 'FM000001', 'Autosave ON', 'SHOW SUP OFF', 'Scope DB', and 'Format s'. A callout box with a yellow background and black border contains the following text:

There are four ways to change the display format

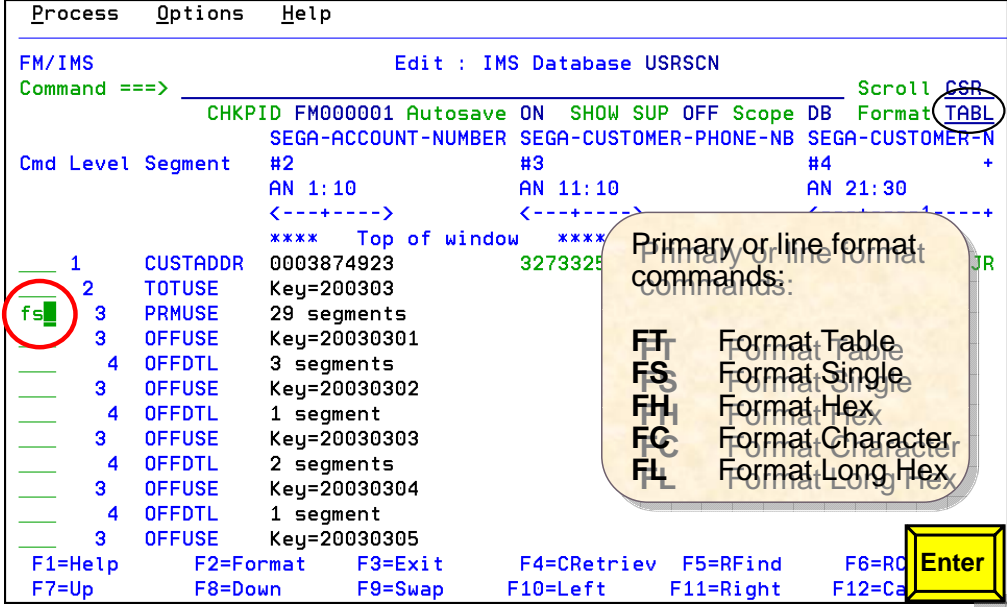
- A primary command
- A line command
- Overtype the Format field with: T(ABL), S(NGL), C(HAR), H(EX), or L(HEX)
- F2 format key

Arrows from the callout box point to the 'Format s' field in the top right, the 'fs' command in the command line, the 'F2=Format' key in the bottom left, and the 'Format' field in the table header.

At the bottom of the screen, there is a footer with the page number '11', the text 'IBM File Manager for z/OS IMS Feature - Mentor Workshop', and 'W00 © 2010 IBM Corporation'.

There are three ways to switch the format. You can use any of the F commands on the command line, or as a line command. When used as a line command, it also makes the selected segment the current segment. Finally, you can overtype the “format” field located in the upper right area of the panel.

Use Format Single (FS) line command to change to single format



The screenshot shows the 'Edit : IMS Database USRSCN' window. The 'Command' field contains '====>' and the 'Format' field contains 'TABL'. A list of segments is displayed with columns for 'Cmd', 'Level', 'Segment', and data. The segment 'CUSTADDR' is highlighted, and the command 'fs' is entered in the 'Cmd' column next to it. A callout box titled 'Primary or line format commands:' lists the following commands:

- FT Format Table
- FS Format Single
- FH Format Hex
- FC Format Character
- FL Format Long Hex

At the bottom of the screen, a yellow 'Enter' key icon is shown. The footer contains the page number '12', the text 'IBM File Manager for z/OS IMS Feature - Mentor Workshop', and the copyright notice '© 2010 IBM Corporation'.

In this example an FS line command is typed next to a segment. Enter.

Add display columns to single format display



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> **type;sloc** Scroll CSR
Format **SNGL**

CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB
Segment PRMUSE Level: 3
Concatenated key value: 000387492320030320030301
Top Line is 1 of 5

Current 01: SEGC-PRIMARY-USE

Field	Data
SEGC-PERIOD	K 200303
SEGC-SEQ	K 1
SEGC-PRIME-TIME-USAGE	20.00
SEGC-PRIME-TIME-RATE	7.0000
FILLER	
*** End of record ***	

Enter

In single format:

Command	toggles on or off:
REFS	Field reference #
PIC	Picture clause
RDF	Redefines info
TYP	Field type / length
SLOC	Start loc/length
JUST	Left justification
STR	Structure levels

F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Previous F11=Next F12=Cancel

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That positioned to the selected segment, and switched the format to single. In single format, only one segment is displayed at a time. The column names are shown on the left, and the data values on the right.

Notice the F10 and F11 keys. F10 goes to the previous segment, and F11 goes to the next one.

In single format, there are several display columns that you can toggle on or off. For example, you can choose to view the field reference number, the picture clause, the field type, and others. Notice the list of commands shown. In this example, the TYPE command is entered to display the field type, and the SLOC command is entered to show the field starting position and length. Enter.

Result of TYPE and SLOC single format commands



```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN   Start location on
Command ==>>> █                      CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format CSR
                                         SNGL
Segment  PRMUSE      Primary Usage      Level: 3
Concatenated key value: 000387492320030320030301

Current 01: SEGC-PRIMARY-USE
Top Line is 1 of 8
Ref Field      Typ Start  Len  Data
 2 SEGC-PERIOD  AN      1     6 K 200303
 3 SEGC-SEQ     ZD      7     2 K 1
 4 SEGC-PRIME-TIME-USAGE
   ZD          9     11   20.00
 5 SEGC-PRIME-TIME-RATE
   ZD         20     9    7.0000
 6 FILLER      AN      29    52

*** End of record ***

F1=Help      F2=Format   F3=Exit     F4=CRetriev F5=RFind    F6=RChange
F7=Up        F8=Down     F9=Swap     F10=Previous F11=Next    F12=Cancel
```

The commands toggle the settings on and off

Or set them as default values in the edit option panel

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The TYPE and SLOC commands added some additional columns to the display, showing field type, starting position, and length.

HEX OFF command



FM/IMS
Command ==> **HEX OFF** **Enter**

FM/IMS Edit : IMS Database USRSCN
Command ==> **CHKPID** **Scroll CSR**
CHKPID **Format SNGL**
Segment PRMUSE Primary Usage Level: 3
Concatenated key value: 000387492320030320030301
Top Line is 1 of 8

Current 01: SEGC-PRIMARY-USE

Ref	Field	Typ	Start	Len	Data
2	SEGC-PERIOD	AN	1	6	K 200303
3	SEGC-SEQ	ZD	7	2	K 1
4	SEGC-PRIME-TIME-USAGE	ZD	9	11	20.00
5	SEGC-PRIME-TIME-RATE	ZD	20	9	7.0000
6	FILLER	AN	29	52	

*** End of record ***

F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Previous F11=Next F12=Cancel

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HEX OFF, then, turns the hexadecimal display off.

Edit / browse options



- There are edit options for the display formats

- From the main menu:
 - Select Options, then Edit

Format

- 1 1. Previous
- 2. TABL
- 3. SNGL
- 4. CHAR
- 5. HEX
- 6. LHEX

- Control the default format:

Control the default columns shown in single format:

- Show field reference numbers on SNGL displays (REF)
- Show field picture clauses on SNGL displays (PIC)
- Show record structure on SNGL displays (STR)
- / Show redefined fields on SNGL and TABL displays (RDF)
- Show field type & length on SNGL displays (TYPE)
- Show field start locations on SNGL displays (SLOC)
- / Left justify numerics on SNGL displays (JUST)

Be aware that there are settings you can customize to control the formats. You can control which format is displayed by default when you enter the editor or browser. And you can control which columns are displayed by default in single format.

Use Format Character (FC) line command to change to character format



```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==> fc                       Scroll CSR
                                     Format SNGL
CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB
Segment CUSTADDR Cust Addr      Level: 1
Concatenated key value: 0003874923
                                     Top Line is 1 of 9

Current 01: SEGA-CUSTOMER-ACCOUNT
Ref Field      Typ Start  Len  Data
 2 SEGA-ACCOUNT-NUMBER
   AN          1    10 K 0003874923
 3 SEGA-CUSTOMER-PHONE-NB
   AN          11   10  3273325564
 4 SEGA-CUSTOMER-NAME
   AN          21   30  BILL BUFFALO JR
 5 SEGA-CUSTOMER-ADDRESS
   AN          51   40  666 PRARIERD, WY 323423-123456

*** End of record ***

F1=Help      F2=Format  F3=Exit    F4=CRetrie  F5=RFind    F6=RC
F7=Up        F8=Down    F9=Swap    F10=Previo F11=Next    F12=Ca
                                     Enter
```

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In this example, data is being displayed in single format. An FC (format character) command is entered.

**Format has changed to character.
Enter multiple commands on the command line**



The screenshot shows the IBM File Manager for z/OS IMS Edit window. The title bar reads "Edit : IMS Database USRSCN". The command line shows "Command ==> ft;show sup on" with "ft;show sup on" circled in red. Below the command line, the status bar shows "CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Col 1 Format CHAR", with "SHOW SUP OFF" and "CHAR" circled in blue. The main display area shows a table of data with columns for Command Level, Segment, and Data. The data is currently in character format. A yellow callout box with arrows pointing to the "SHOW SUP OFF" and "29 segments" text contains the text: "FT - Change format to Table. SHOW SUP ON - Show the suppressed segments". At the bottom right, there is a yellow "Enter" button. The footer of the window shows "19", "IBM File Manager for z/OS IMS Feature - Mentor Workshop", and "W00 © 2010 IBM Corporation".

That switched the display to character format. There is a setting that controls how segments that are not the current type are displayed. Right now, a setting of SHOW SUP OFF is in effect. Because of that, multiple twin segments not of the current type are collapsed to a single line. Notice the third data line, which is a PRMUSE segment type. On that line, 29 segments are represented. Sometimes, having the twin segments collapsed can make it easier to scroll and navigate. But sometimes, you may prefer not to have segments collapsed. That can be done with a SHOW SUP ON command. That command is typed in, along with an FT command, and Enter is pressed.

Format has changed to table. Suppressed segment key values visible



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> Scroll CSR

CHKPID FM000001 Autosave ON **SHOW SUP ON** Scope DB Format **TABL**

Cmd	Level	Segment	#2	#3	#4	+
			AN 1:10	AN 11:10	AN 21:30	
			<----->			<-----1----->
			**** Top of window ****			
---	1	CUSTADDR	0003874923	3273325564	BILL BUFFALO JR	
---	2	TOTUSE	Key=200303			
---	3	PRMUSE	Key=20030301			
---	3	PRMUSE	Key=20030302			
---	3	PRMUSE	Key=20030303			
---	3	PRMUSE	Key=20030305			
---	3	PRMUSE	Key=20030306			
---	3	PRMUSE	Key=20030307			
---	3	PRMUSE	Key=20030308			
---	3	PRMUSE	Key=20030309			
---	3	PRMUSE	Key=20030310			
---	3	PRMUSE	Key=20030311			

F1=Help F2=Format F3=Exit F4=CRetrieve F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

SHOW SUP ON shows key values for suppressed segments instead of a segment count.

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Now that the SHOW SUP ON setting is in effect, it is not collapsing twin segments in the display. Instead, for segments that are not of the currently positioned type, the key value is shown for each segment.

Use the ZOOM command to narrow the scope of commands



```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==> zoom                               Scroll CSR
CHKPID FM000001 Autosave ON  SHOW SUP ON  Scope DB  Format TABL
Cmd Level Segment #2 #3 #4 +
          AN 1:10 AN 11:10 AN 21:30
          <-----> <-----> <-----1----->
1  CUSTADDR 0003874923 3273325564 BTU BUFEFOLO TO
2  TOTUSE Key=200303
3  PRMUSE Key=20030301
3  PRMUSE Key=20030302
3  PRMUSE Key=20030303
3  PRMUSE Key=20030305
3  PRMUSE Key=20030306
3  PRMUSE Key=20030307
3  PRMUSE Key=20030308
3  PRMUSE Key=20030309
3  PRMUSE Key=20030310
3  PRMUSE Key=20030311
3  PRMUSE Key=20030312
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RC
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca Enter
```

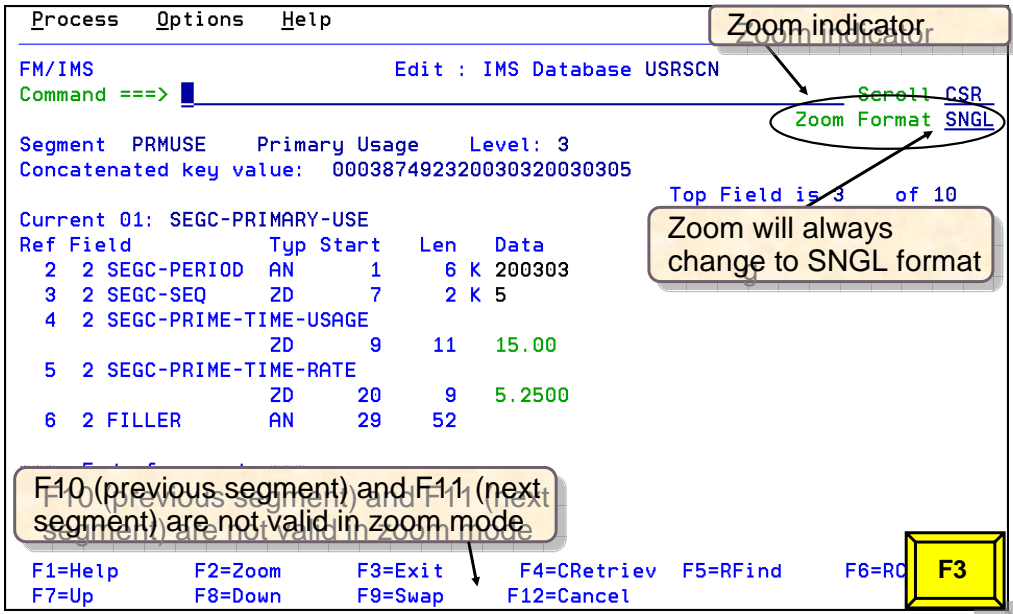
By default, the segment at the top of the display is selected

Or cursor select the segment

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At this point you have seen all of the formats: table, single, character, hex, and lhex. But there is one more formatting command that you might find helpful, zoom. ZOOM is typed on the command line. Enter.

ZOOM narrows the scope of commands to this segment



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==>

Segment PRMUSE Primary Usage Level: 3
Concatenated key value: 000387492320030320030305

Current 01: SEGC-PRIME-TIME-RATE

Ref	Field	Typ	Start	Len	Data
2	2 SEGC-PERIOD	AN	1	6 K	200303
3	2 SEGC-SEQ	ZD	7	2 K	5
4	2 SEGC-PRIME-TIME-USAGE	ZD	9	11	15.00
5	2 SEGC-PRIME-TIME-RATE	ZD	20	9	5.2500
6	2 FILLER	AN	29	52	

Top Field is 3 of 10

F10 (previous segment) and F11 (next segment) are not valid in zoom mode

F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=RC
F7=Up F8=Down F9=Swap F12=Cancel

F3

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That “zoomed” in to the selected segment. Notice that the format indicator in the upper right shows “zoom format single”. Zoom looks like single, but there is one big difference. When you use zoom, you cannot navigate to other segments. Notice that F10 and F11, which in single format are previous and next, are not available in zoom.

To exit zoom mode, press F3, or enter the ZOOM command again.

Edit – Zoom



- With the zoom command the session is “stuck” on one segment... cannot move away from it
 - no F10 (previous) or F11 (next)
 - Find and change commands are limited in scope to only one segment
- **So, why use zoom?**
 - The scope of find and change commands are just the one segment
 - Won't accidentally alter data in any other segments or move to another segment
 - Use it for safety!
- To exit zoom mode:
 - **F3 - Exit**, or
 - **ZOOM** command, or
 - **F2 - Zoom**

Since zoom is so similar to single, you may be wondering why you would use it. The differences are that you cannot navigate to other segments, and the scope of find and change commands is only the current segment. So even a find or change command will not search other segments or reposition to another segment.

So, why use zoom? Use it for safety, to ensure that you will not accidentally make changes to other segments.

After exiting ZOOM mode, back to TABL format



```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==>>>                        Scroll CSR
                                        Format TABL
CHKPID FM000001 Autosave ON  SHOW SUP ON  Scope DB
SEGC-PERIOD SEGC-SEQ SEGC-PRIME-TIME-USAGE
Cmd Level Segment #2 #3 #4
<---+> <->
**** Top of window
1  CUSTADDR Key=0003874923
2  TOTUSE Key=200303
3  PRMUSE 200303 1
3  PRMUSE 200303 2
3  PRMUSE 200303 3
3  PRMUSE 200303 5
3  PRMUSE 200303 6
3  PRMUSE 200303 7
3  PRMUSE 200303 8
3  PRMUSE 200303 9 25.00
3  PRMUSE 200303 10 10.00
3  PRMUSE 200303 11 15.00
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RC F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca
```

F2 can be used to change the format from TABL to SNGL

The cursor on the command line will use the segment at the top of the display

Or cursor select a segment

F2

If your F2 key is set to "format", it can be used to toggle between TABL and SNGL format. In this example, the cursor is placed on a data line. That will select the segment on the line. F2 is pressed.

F2 switches to SNGL format on the selected segment



```
Process  Options  Help
-----
FM/IMS                               Edit : IMS Database USRSCN
Command ==>  CHKPID FM000001 Autosave ON  SHOW SUP ON  Scope DB  Format CSR
Segment PRMUSE                               Level: 3
Concatenated key value: 000387492320030320030303
                                                    Top Line is 1  of 5

Current 01: SEGC-PRIMARY-USE
Field      Data
SEGC-PERIOD      K 200303
SEGC-SEQ         K 3
SEGC-PRIME-TIME-USAGE  2.00
SEGC-PRIME-TIME-RATE  0.3500
FILLER
*** End of record ***
```

F2 toggles between TABL and SNGL formats

F1=Help F2=Format F3=Exit F4=CRetrieve F5=RFind F6=RC F7=Up F8=Down F9=Swap F10=Previous F11=Next F12=Ca

F2

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The display changed to SNGL format, and positioned to the selected segment. F2 is pressed again.

Back to TABL format, selected segment at the top of the display



Process	Options	Help
FM/IMS	Edit : IMS Database USRSCN	
Command ==>	Scroll CSR Format TABL	
	CHKPID FM000001 Autosave ON	SHOW SUP ON Scope DB
	SEGC-PERIOD	SEGC-SEQ SEGC-PRIME-TIME-USAGE
Cmd Level Segment	#2	#3 #4
	AN 1:6	ZD 7:2 ZD 9:11
	<---+>	<-> <-----1-->
---	3 PRMUSE 200303	3 2.00
---	3 PRMUSE 200303	5
---	3 PRMUSE 200303	6
---	3 PRMUSE 200303	7 3.00
---	3 PRMUSE 200303	8 20.00
---	3 PRMUSE 200303	9 25.00
---	3 PRMUSE 200303	10 10.00
---	3 PRMUSE 200303	11 15.00
---	3 PRMUSE 200303	12 10.00
---	3 PRMUSE 200303	13 20.00
---	3 PRMUSE 200303	14 11.00
---	3 PRMUSE 200303	15 12.00
---	3 PRMUSE 200303	16 13.00
F1=Help	F2=Format	F3=Exit
F7=Up	F8=Down	F9=Swap
		F4=CRetriev
		F5=RFind
		F6=RChange
		F10=Left
		F11=Right
		F12=Cancel

F2 toggles between formats

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And TABL format is displayed again, still positioned to the selected segment. F2 can be used to toggle between formats.

File Manager IMS tutorial



- Creating templates
 - About templates and views
 - Create or update a template
- Browsing or editing an IMS database with a template
 - Starting the editor
 - The display formats and zoom
 - Display different segment types
 - Find, change, scope, and locate data
 - Insert, repeat, repeat all, and delete segments
 - Print from the editor
 - End, quit, save, undo, and cancel



Next, you will see how to display different segment types, and how to display only certain segment types.

Use the View (V) command to display a segment type



```

Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==>                           Scroll  CSR
                                     CHKPID FM000001 Autosave ON SHOW SUP ON Scope DB Format TABL
Cmd Level Segment #2 #3 #4 +
                                     AN 1:10 AN 11:10 AN 21:30
                                     <-----> <-----> <----->
1 CUSTADDR 0003874923 3273325564
2 TOTUSE Key=200303
3 PRMUSE Key=20030301
3 PRMUSE Key=20030302
3 PRMUSE Key=20030303
3 PRMUSE Key=20030305
3 PRMUSE Key=20030306
3 PRMUSE Key=20030307
3 PRMUSE Key=20030308
3 PRMUSE Key=20030309
3 PRMUSE Key=20030310
3 PRMUSE Key=20030311
3 PRMUSE Key=20030312
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RC
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca
    
```

The screenshot shows a terminal window with a table of segments. A red circle highlights a 'V' character next to the first PRMUSE segment (Key=20030301). A yellow box labeled 'View the PRMUSE segments' has an arrow pointing to this 'V'. Another yellow box labeled 'CUSTADDR segments are being displayed' has an arrow pointing to the CUSTADDR segment (0003874923) and the value 3273325564.

In this example, the display is positioned to a root segment. In this data base, root segments are named CUSTADDR. To see the data for another segment type, use a V (for View) line command. V is entered next to one of the PRMUSE segments. Enter.

Result of V (view) line command



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> █

Scroll CSR
Format TABL

CHKPID FM000002 Autosave ON SHOW SUP ON Scope DB

SEGC-PERIOD SEGC-SEQ SEGC-PRIME-TIME-USAGE

Cmd	Level	Segment	#2	#3	#4
			AN 1:6	ZD 7:2	ZD 9:11
			<---+>	<->	
			**** Top of window		
---	1	CUSTADDR	Key=0003874923		
---	2	TOTUSE	Key=200303		
---	3	PRMUSE	200303	1	20.00
---	3	PRMUSE	200303	2	10.00
---	3	PRMUSE	200303	3	2.00
---	3	PRMUSE	200303	5	15.00
---	3	PRMUSE	200303	6	10.00
---	3	PRMUSE	200303	7	*****
---	3	PRMUSE	200303	8	20.00
---	3	PRMUSE	200303	9	25.00
---	3	PRMUSE	200303	10	10.00
---	3	PRMUSE	200303	11	15.00

F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RC F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca

PRMUSE segments are displayed

F3

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Now data is displayed for that segment type. Notice that the column headings changed to show fields for PRMUSE segments.

Next, you will see how you can display only certain segment types. F3 is pressed.

F3 returns to database positioning panel



Process Options Help

FM/IMS Edit : Database Positioning

Command ==> Temporary View Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL

View	Temporary	Segment	Description	len	Key value
X	SX 1	CUSTADDR		10	0003874923
x	X 2	TOTUSE		6
x	X 3	PRMUSE		8
x	X 3	OFFUSE		8
x	X 4	OFFDTL		8
x	X 2	BALDUE		8
x	X 3	BALHIST		8
**** End of data ****					

An X indicates that a segment type is selected

Toggle segment types on or off with an X line command.

Tip: Select or deselect segments using commands like X4, or use XX – XX blocks

=CRetriev F5=Key >= F7=Ba
=Cancel
Enter

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That returned to the database positioning panel. Notice that when you are using a template, there is a column labeled SXE. An X in the X column of SXE means that the segment type is selected for display. You can toggle that selection on or off with an X line command. Notice that by default, there is an X next to every segment type, meaning that they will all be displayed.

In this example, X's are typed next to all but one of the segment types, and Enter is pressed.

Select which segment types are shown



```
Process  Options  Help
-----
FM/IMS                               Edit : Database Positioning
Command ==>> _____ Temporary View (changed) SR
Subsystem IMSB Database USRSCN Key sequence Format TABL
View C Temporary
Cmd S X E Level Segment Description len Key value
-----
S S 1 CUSTADDR 10 0003874923
  2 TOTUSE 6 .....
  3 PRMUSE 8 .....
  3 OFFUSE 8 .....
  4 OFFDTL 8 .....
  2 BALDUE 6 .....
  X 3 BALHIST
**** End of data ****
```

Line commands:
S Position to segment
X Select / Clear
K Display key
E Edit view

F1=Help F2=Split F3=Exit F4=CRetriev F5=Key >= F7=Ba
F8=Forward F9=Swap F10=Actions F12=Cancel

F5

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That toggled the X's off for those segments. Only the last segment type, BALHIST, is selected for display now. An S line command is typed next to a segment to position and display the editor. F5 is pressed.

Only the selected segment type is shown



Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> █

CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Format TABL

SEGY-PAST-PERIOD SEGY-TYPE-IND2 SEGY-CURR-DUE

Cmd	Level	Segment	#2	#3	#4
			AN 1:6	AN 7:4	BI 11:8
			<---+>	<-->	<-----1-----2->
			**** Top of window ****		
---	3	BALHIST	200212	PAST	
---	3	BALHIST	200301	PAST	
---	3	BALHIST	200302	PAST	
---	3	BALHIST	Layout=SEGY1-CURRENT-PERIOD		
---	3	BALHIST	200302	PAST	
---	3	BALHIST	Layout=SEGY1-CURRENT-PERIOD		
---	3	BALHIST	Layout=SEGY1-CURRENT-PERIOD		
---	3	BALHIST	200302	PAST	10.00
---	3	BALHIST	Layout=SEGY1-CURRENT-PERIOD		
---	3	BALHIST	200302	PAST	10.00
---	3	BALHIST	Layout=SEGY1-CURRENT-PERIOD		
---	3	BALHIST	200302	PAST	10.00

F1=Help F2=Format F3=Exit F4=Left F5=Right F6=Ca

F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Ca

Only the BALHIST segment is shown

This segment has multiple layouts

Tip: Use k (key) line command to see the fully concatenated key

F3

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Now only the one segment type, BALHIST, is displayed. All other segment types are hidden. F3 returns to the positioning panel.

Back to the Edit Database Positioning panel



```
Process  Options  Help
-----
FM/IMS          Edit : Database Positioning
Command ==>>> _____ Scroll CSR

Subsystem IMSB Database USRSCN   Key sequence      Format TABL
View C      Temporary          Key
Cmd SXE Level  Segment  Description  len  Key value
--- S  1      CUSTADDR  10  0003874923
---   2      TOTUSE    6   .....
---   3      PRMUSE    8   .....
---   3      OFFUSE    8   .....
---   4      OFFDTL    8   .....
--- S  2      BALDUE    6   200303
--- SX 3      BALHIST   6   200212
**** End of data ****
```

Line commands:
S Position to segment
X Select / Clear
K Display key
E Edit view

F1=Help F2=CRetrie F3=Key >= F4=CRetriev F5=Key >= F6=Bal F7=Bal
F8=Forward F9=Swap F10=Actions F11=Cancel F12=Cancel

F3

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On the positioning panel, remember that the X line command is a toggle. You can use it to select or clear a segment for display. Your selections are maintained in the File Manager view. The view can be saved and reused. More about that later.

That is the end of part one of using browse or edit with a template and view. You can continue with part two.

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This is 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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