

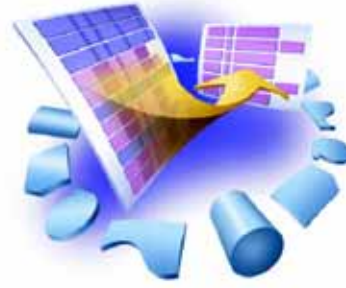


IBM Software Group

## 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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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


- Using templates and views
  - About templates and views
  - Create and save a new 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
  - 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 two parts. This is part one, and it will cover starting the editor, the display formats and zoom, and displaying different segment types.



## Select edit from the menu

```
Process  Options  Help
-----
FM/IMS                                     Primary Option Menu
Command ==> 2
-----
0 Settings      Set processing options      User ID . . : DNET424
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  Terminal  : 3278A
X Exit         Terminate FM/IMS           Screen    : 1
                                           Date     : 2007/10/24
                                           Time     : 10:57

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

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```

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

**Specify the DBD name**

Process Options Help

FM/IMS Edit Entry Panel (Dynamic PSB)

Command ==>

DBD:

Data set name 1 . . . ADLAB.DBDLIB

Data set name 2 . . .

Member . . . . . USRSCN

IMS:

Subsystem Name . . . IMSB

AGN Name . . . . . (If BMP)

Processing Options:

Region Type	IMS log (if DLI)	Enter "/" to select option
1 1. DLI	3 1. Keep	Secondary index
2. BMP	2. Delete	/ Use view
	3. None	/ Create audit trail
		- Use dynalloc DB dsnames

Select "Use view" to use a template and view

Enter

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Specify a DBD by entering the name of a DBD library and member name. To use a template, select the "Use view" option. It is turned on with a slash character. This option will make File Manager use both a template and a view. Enter.



## In DLI mode, specify database data sets

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

Subsystem IMSA 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. Profile                / Save dsnames in profile
 2. Dynamic Allocation data set

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

Enter
```

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

**Specify a template, and optionally a view**

Process Options Help

FM/IMS Edit : View Specification

Command ==> \_\_\_\_\_

Subsystem IMSA Database \_\_\_\_\_

Template:

Data set name . . . ADLAB.TEMPLATE

View:

Data set name . . . ADLAB.VIEW

Member . . . . . USRSCN

Processing Options:

View usage

1 1. New

2. Existing

3. None

Enter "/" to select option

/ Save view on return

Enter

F4=CR

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Since the “Use view” option was selected, this panel is displayed, the “View specification” panel. In the template data set name field, enter the name of the template library. Do not enter the member name. Remember that there is a one to one correlation between DBDs and templates, and File Manager requires the member name of the template to be the same as the DBD.

You can also, optionally, specify the name of a view. You can either create a new view, or if you have already saved a view that you want to re-use, you can specify its name in the “view data set name” and “member” fields. Typically, you will create a new view, unless you want formatting or selection from a view that you saved previously. Also, you can select the “save view on return” option with a slash so that any formatting or selection that you specify in the view during the session will be saved. If you do not select this option, changes you make to the view will not be saved automatically.


In this example, notice that a 1 for “New” was specified in the “view usage” field. That means that a new view will be created. Enter is pressed to continue.



## Position to a segment in the database

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

Subsystem IMSA Database USRSCN   Key sequence      Format TABL
View      Temporary
Cmd SXE Level   Segment  Description      len  Key value
s  X  1          CUSTADDR          10  0003874923
  X  2          TOTUSE             6   .....
  X  3          PRMUSE             8   .....
  X  3          OFFUSE             8   .....
  X  4          OFFDTL             8   .....
  X  2          BALDUE             6   .....
  X  3          BALHIST            6   .....
**** End of data ****
```



F1=Help    F2=Split    F3=Exit    F4=CRetriev    F5=Key >=    F7=Backward  
F8=Forward    F9=Swap    F10=actions    F12=retrieve

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Next, the database positioning panel is displayed. A segment type is selected with an S line command. Press Enter or PF5 to continue.



**Editing the database**

Notice that with a template, the field layouts are shown.

```

Process  Options  Help
FM/IMS          Edit : IMS Database USRSCN
Command ==>    CHKPID FM00001 Autosave ON SHOW SUP OFF Scope DB Format TABL Scroll CSR
                SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4
                AN 1:10 AN 11:10 AN 21:30
                <---+----> <---+----> <---+----1---+---->
  1  CUSTADDR 0003874923 3273325564 BILL B. UFFALO
  2  TOTUSE   Key=200303
  3  PRMUSE   29 segments
  3  OFFUSE   Key=20030301
  4  OFFDTL   2 segments
  3  OFFUSE   Key=20030302
  4  OFFDTL   1 segment
  3  OFFUSE   Key=20030303
  4  OFFDTL   1 segment
  3  OFFUSE   Key=20030304
  4  OFFDTL   1 segment
  3  OFFUSE   Key=20030305
  4  OFFDTL   1 segment
F1=Help  F2=Format  F3=Exit  F4=CRetriev  F5=RFind  F6=RChange
F7=Up    F8=Down    F9=Swap  F10=Left    F11=Right  F12=Retrieve

```

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

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



## File Manager IMS training: sections

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  - Insert, repeat, repeat all, and delete segments
  - End, quit, save, undo, and cancel



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



## Display formats with a template

- With a template, you can see field layouts:
  - Table format
  - Single format
- And you can still use the formats that are available without a template:
  - Character format
  - Hex format
  - Lhex format

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

## Table format

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

IMS Database USRSCN

Command ==> Scroll CSR

Cmd Level Segment	SEGA-ACCOUNT-NUM	SEGA-CUSTOMER-PHONE-NB	SEGA-CUSTOMER-NAME
1 CUSTADDR	0003874923	3273325564	BILL B. UFFALO
2 TOTUSE	Key=200303		
3 PRMUSE	29 segments		
3 OFFUSE	Key=20030301		
4 OFFDTL	2 segments		
3 OFFUSE	Key=20030302		
4 OFFDTL	1 segment		
3 OFFUSE	Key=20030303		
4 OFFDTL	1 segment		
3 OFFUSE	Key=20030304		
4 OFFDTL	1 segment		
3 OFFUSE	Key=20030305		
4 OFFDTL	1 segment		

Primary or line format commands:

**FT** Format Table

**FS** Format Single

**FH** Format Hex

**FC** Format Character

**FL** Format Long Hex

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

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Remember that there are commands that start with 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.



## How to change the display format

Process Options Help

FM/IMS Edit : IMS Database USRSCN

Command ==> fs Scroll CSR

Cmd	Level	Segment	CHKPID	FM000001	Autosave ON	SHOW SUP OFF	Scope DB	Format s
				SEGA-ACCOUNT-NUM	SEGA-CUSTOMER-PHONE-NB	SEGA-CUSTOMER-NAME		
			#2	#3	#4			+
			AN 1:10	AN 11:10	AN 21:30			
			<---+---	<---+---	<---+---1---			
1		CUSTADDR	0003874923	3273325564	BILL B. UFFALO			
2		TOTUSE	Key=200303					
fs	3	PRMUSE	29 segments					
	3	OFFUSE	Key=20030301					
	4	OFFDTL	2 segments					
	3	OFFUSE	Key=20030302					
	4	OFFDTL	1 segment					
	3	OFFUSE	Key=20030303					
	4	OFFDTL	1 segment					
	3	OFFUSE	Key=20030304					
	4	OFFDTL	1 segment					
	3	OFFUSE	Key=20030305					
	4	OFFDTL	1 segment					

There are three ways to change the display format.

- A primary command
- A line command
- Overtyping the Format field with: TABL, SNGL, CHAR, HEX, or LHEX

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

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



# FS (format single) line command

```

Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==>                          Scroll CSR
          CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format TABL
          SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4 +
          AN 1:10 AN 11:10 AN 21:30
          <---+----> <---+----> <---+----1----+---->
  1  CUSTADDR 0003874923 3273325564
  2  TOTUSE Key=200303
  3  PRMUSE 29 segments
  3  OFFUSE Key=20030301
  4  OFFDTL 2 segments
  3  OFFUSE Key=20030302
  4  OFFDTL 1 segment
  3  OFFUSE Key=20030303
  4  OFFDTL 1 segment
  3  OFFUSE Key=20030304
  4  OFFDTL 1 segment
  3  OFFUSE Key=20030305
  4  OFFDTL 1 segment
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=

```

Primary or line format commands:

**FT** Format Table

**FS** Format Single

**FH** Format Hex

**FC** Format Character

**FL** Format Long Hex

Enter

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



## Commands to control the display in single format

```

Process  Options  Help
-----
FM/IMS                      Edit : IMS Database USRSCN   Start location off
Command ==> type;sloc      Scroll CSR
                        CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format SINGL
Segment PRMUSE                      Level: 3
Concatenated key value: 000387492320030320030301
Top Line is 1 of 6

Current 01: SEGC-PRIMARY-USE
Ref Field                      Data
 2 SEGC-PERIOD                  K 200303
 3 SEGC-SEQ                     K 1
 4 SEGC-PRIME-TIME-USAGE              20.00
 5 SEGC-PRIME-TIME-RATE              7.0000
 6 FILLER

*** End of record ***

```

You can use the Edit options to set the single format fields, or you can use the primary commands

Enter

Commands to control single format:

**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=CRetrieve  F5=RF ind    F6=RChange
F7=Up        F8=Down      F9=Swap      F10=Previous  F11=Next     F12=Retrieve

```

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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 PF10 and PF11 keys. PF10 goes to the previous segment, and PF11 goes to the next one.

In single format, there are several 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.



## Commands to control the display in single format

```

Process  Options  Help
-----
FM/IMS                      Edit : IMS Database USRSCN
Command ==>                 Scroll CSR
                             CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Format SNGL
Segment PRMUSE                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=Retrieve

```

After turning on SLOC and TYPE.

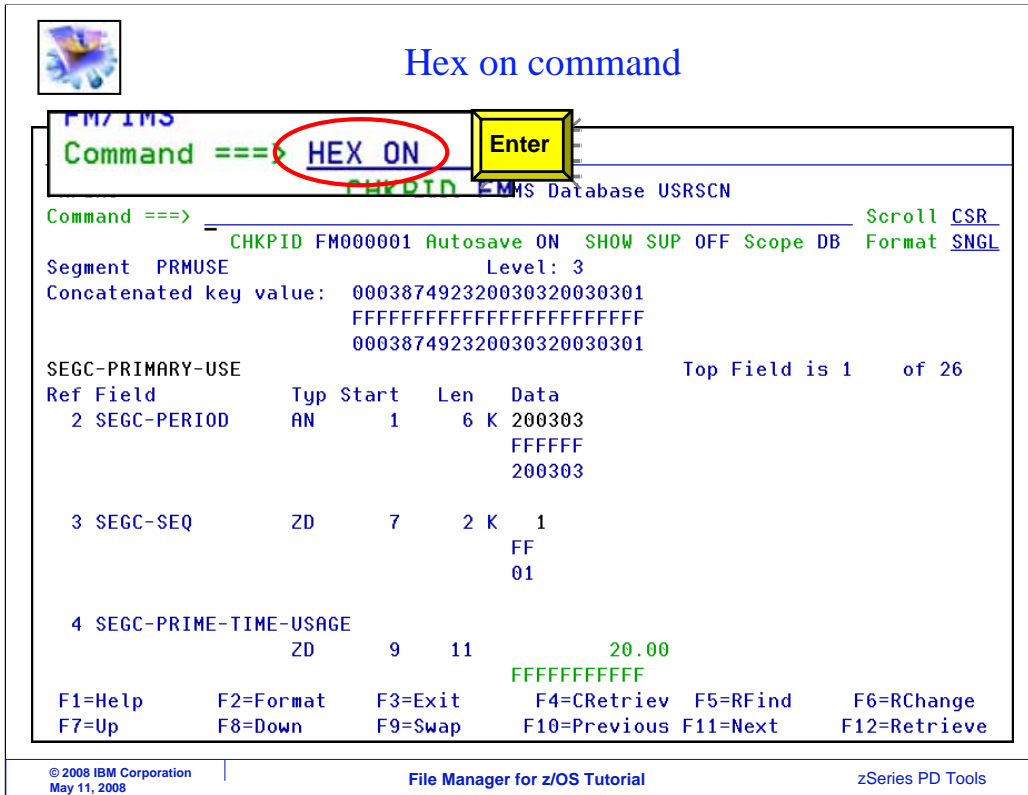
These commands toggle the settings on and off.

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Here is the result of the TYPE and SLOC commands. Notice the additional columns that are displayed.



## Hex on command



Command ===> **HEX ON** **Enter**

CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Format SNGL

Command ===> Scroll CSR

Segment PRMUSE Level: 3

Concatenated key value: 000387492320030320030301  
FFFFFFFFFFFFFFFFFFFFFFFF  
000387492320030320030301

SEGC-PRIMARY-USE Top Field is 1 of 26

Ref	Field	Typ	Start	Len	Data
2	SEGC-PERIOD	AN	1	6 K	200303 FFFFFF 200303
3	SEGC-SEQ	ZD	7	2 K	1 FF 01
4	SEGC-PRIME-TIME-USAGE	ZD	9	11	20.00 FFFFFFFF

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

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Still in single format, the HEX ON command is entered. That displays the hexadecimal representation.

## Hex off command

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

CHKPID FMMS Database USRSCN

Command ==> \_\_\_\_\_ Scroll CSR  
 CHKPID FM000001 Autosave ON SHOW SUP OFF Scope DB Format SINGL

Segment PRMUSE 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=Retrieve

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HEX OFF, of course, turns the hex display off.



## Edit/browse options

- There are edit options for the display formats
  - From the main menu:
    - Select Options, then Edit/Browse Options

- Control the default format:

```
Initial Display
1 1. Previous
2 2. Table
3 3. Single
4 4. Character
5 5. Hex
6 6. LHex
```

- Control the default columns shown in single format:

```
Record formatting options for SNGL display or print:
/ Field reference number (REF) / Field type and length values (TYPE)
- Picture clause (PIC) / Start location (SLOC)
- Structure (STR) - Left justify numeric fields (JUST)
/ Redefined fields (RDF) (also affects TABL format)
```

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



## FC (format character) line command

```
Process  Options  Help
-----
FM/IMS                               Edit : IMS Database USRSCN
Command ==> fc                               Scroll CSR
CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Format SNGL
Segment CUSTADDR                          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-NUM
      AN        1    10 K 0003874923
 3 SEGA-CUSTOMER-PHONE-NB
      AN       11    10  3273325564
 4 SEGA-CUSTOMER-NAME
      AN       21    30  BILL B. UFFALO
 5 SEGA-CUSTOMER-ADDRESS
      AN       51    40  666 PRARIERD, WY 323423-123456

*** 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=Retrieve
```

Enter

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



## Select a segment with the FT line command

```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==> ft:show sup on          Scroll CSR
CHKPID FM000001 Autosave ON  SHOW SUP OFF Scope DB  Col 1  Format CHAR
Cmd Level Segment  ---+---1---+---2---+---3---+---4---+---5---+---
--- 1  CUSTADDR 00038749233273325564BILL B. UFFALO 666 PRARI
--- 2  TOTUSE Key=200303
--- 3  PRMUSE 29 segments
--- 3  OFFUSE Key=20030301
--- 4  OFFDTL 2 segments
--- 3  OFFUSE Key=20030302
--- 4  OFFDTL 1 segment
--- 3  OFFUSE Key=20030303
--- 4  OFFDTL 1 segment
--- 3  OFFUSE Key=20030304
--- 4  OFFDTL 1 segment
--- 3  OFFUSE Key=20030305
--- 4  OFFDTL 1 segment
--- 3  OFFUSE Key=20030306
--- 4  OFFDTL 1 segment
--- 3  OFFUSE Key=20030306
F1=Help F2=Format F3=Enter F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=retrieve
```

**FT** - Change format to Table.  
**SHOW SUP ON** - Show the suppressed segments.

Enter

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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, twin segments are collapsed in the display. 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.



## Positioned to the selected segment in table format

```
Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==>                          Scroll CSR
      CHKPID FM000001 Autosave ON  SHOW SUP ON  Scope DB  Format TABL
      SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
Cmd Level Segment #2 #3 #4 +
      AN 1:10 AN 11:10 AN 21:30
      <---+----> <---+----> <---+----1----->
  ___ 1  CUSTADDR 0003874923 3273325564 BILL B. UFFALO
  ___ 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=RChange
  F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retrieve
```

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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 every segment.

## Zoom to a segment

Process Options Help

You can "zoom" to a segment to ensure you do not update other segments.

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

Enter

By default, it will zoom to the segment at the top of the display.

Or cursor-select the segment you want.

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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.

**Zoomed to a segment**

---

Process Options Help

---

FM/IMS Edit : IMS Database USRSCN  
 Command ==> \_\_\_\_\_ Scroll CSR  
 Zoom Format SNGL

Segment PRMUSE Level: 3  
 Concatenated key value: 000387492320030320030305 Top Field is 3 of 10

Current 01: SEGC-PRIMARY-USE

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.
6	2 FILLER	AN	29	52	

\*\*\* End of record \*\*\*

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

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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 PF10 and PF11, which in single format are previous and next, are not available in zoom.

To exit zoom mode, press PF3, or enter the ZOOM command again.





## Edit – Zoom

- When you zoom, you are “stuck” on one segment... you cannot move away from it
  - no PF10 (previous) or PF11 (next)
  - Find and Change commands are scoped to only one segment
- **So, why use zoom?**
  - The scope of Find and Change commands are just the one segment
  - You will not accidentally alter data in any other segments or move to another segment
  - Use it for safety!

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.



## File Manager IMS training: sections

- Using templates and views
  - About templates and views
  - Create and save a new 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
  - 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
          SEGA-ACCOUNT-NUM SEGA-CUSTOMER-PHONE-NB SEGA-CUSTOMER-NAME
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=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retrieve
```

Annotations:

- A red circle highlights the 'v' command entered next to the PRMUSE segment on line 3.
- A callout box points to the CUSTADDR segment, stating: "CUSTADDR segments are being displayed".
- A callout box points to the PRMUSE segment, stating: "View the PRMUSE segments".
- A yellow box labeled "Enter" is shown at the bottom right of the screen.

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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 the V (for View) line command. V is entered next to one of the PRMUSE segments. Enter.



## Return to the Database Positioning panel

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	AN 1:6	ZD 7:2	ZD 9:11		
1		CUSTADDR	Key=0003874923				
2		TOTUSE	Key=200303				
3		PRMUSE	200303	1		20.00	
3		PRMUSE	200303	2		10.00	
3		PRMUSE	200303	3		1.00	
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	
3		PRMUSE	200303	12		10.00	

F1=Help F2=Format F3=Find F4=Right F5=Retrieve  
F7=Up F8=Down F9=Left F10=Back F11=Forward

Now PRMUSE segments are displayed

PF3

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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. PF3 is pressed.



## You can select which segment types are shown

Process Options Help

FM/IMS Edit : Database Positioning

Command ==> Temporary View Scroll CSR

Subsystem IMSA 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	6	.....
	X	3	.....	6	.....

\*\*\*\* End of data

An X indicates that a segment type is selected

You can toggle segments types on or off with an X line command.

Tip: You can enter commands like X4, or use XX - XX blocks

Enter

F7=Backward

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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. Enter is pressed.



## You can select which segment types are shown

Process Options Help

FM/IMS Edit : Database Positioning

Command ==> Temporary View (changed) Scroll CSR

Subsystem IMSA Database USRSCN Key sequence Format TABL

View C Temporary

Cmd	SXE	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		6	.....

\*\*\*\* 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=CRetrieve F5=Key >= F7=B PF5  
 F8=Forward F9=Swap F10=Actions F12=retrieve

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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. PF5 is pressed.



## You can select which segment types are shown

```

Process  Options  Help
-----  -
FM/IMS                               Edit : IMS Database USRSCN
Command ==>> _____ Scroll CSR
                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
--- 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=
F7=Up    F8=Down   F9=Swap  F10=

```

Only the selected segment type BALHIST is shown.


This segment has multiple layouts.

Tip: Use a **K** (key) line command to see the fully concatenated key

**PF3**

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Now only the one segment type, BALHIST, is displayed. All other segment types are hidden. PF3 returns to the positioning panel.



## Select a segment type to be shown

Process Options Help

---

FM/IMS Edit : Database Positioning

Command ==> \_\_\_\_\_ Scroll CSR

Subsystem IMSB Database USRSCN Key sequence Format TABL

View	C	Sub	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

**PF3**

F1=Help F2=Retrieve F3=Key >= F4=Backward  
F5=Forward F6=Swap F7=Actions F8=retrieve

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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. Please continue with part two.





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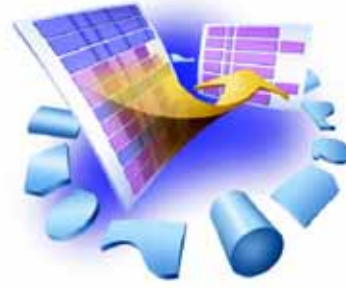


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## IBM File Manager for z/OS IMS Feature

Program Number 5655-S14

### Tutorial



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