



IBM File Manager for z/OS Base Feature Version 10

Program number 5655-V52

Tutorial

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This is the tutorial for the base feature of IBM File Manager for z/OS®, one of the IBM zSeries® Problem Determination tools.

- **How to select records with a copybook template**
 - How to create a copybook template
 - How to save a copybook template
 - How to change a copybook template
- **How to customize how the data is displayed**
 - How to turn off, re-order, and hold fields
- **How to copy data**
 - How to copy a data set
- **How to print data**
 - How to print a data set



In this section – how to print data – you will learn how to use the File Manager online panels to generate reports.

Option 3 displays the utilities entry panel



```
Process  Options  Help
-----
File Manager          Primary Option Menu
Command ==> 3
-----
0  Settings          Set processing options          User ID . : TSS12
1  View              View data                       System ID : STLABF6
2  Edit              Edit data                       Appl ID  . : FMN
3  Utilities          Perform utility functions        Version . : 10.1.0
4  Tapes             Tape specific functions         Terminal. : 3278A
5  Disk/VSAM         Disk track and VSAM CI functions Screen.  . : 1
6  OAM               Work with OAM objects          Date.   . : 2010/05/20
7  Templates         Template and copybook utilities Time.   . : 04:50
8  HFS               Access Hierarchical File System
9  WebSphere MQ      List, view and edit MQ data
X  Exit              Terminate File Manager

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

Enter
```

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From the File Manager primary option menu, option 3 is Utilities. Type a 3 on the command line, and press Enter.

Option 2 displays the print data panel



```
Process  Options  Help
-----
File Manager  Utility Functions
Command ==> 2
-----
0 DBCS          Set DBCS data format for print
1 Create        Create data
2 Print         Print data
3 Copy          Copy data
4 Dslist        Catalog services
5 VTOC          Work with VTOC
6 Find/Change  Search for and change data
7 AFP           Browse AFP data
8 Storage       Browse user storage
9 Printdsn      Browse File Manager print data set
10 Loadlib      Load module utility functions
11 Compare      Compare data
12 Audit trail  Print audit trail report
13 Copybook     View and Print
14 WebSphere MQ List WebSphere MQ managers and queues

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

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Enter

From the File Manager utility functions menu, Option 2 is print. Type a 2 on the command line, and press Enter.

The print data panel is displayed



```
Process  Options  Help
-----
File Manager                      Print Utility
Command ==> █

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name . . . ADLAB.CUST1
Member . . . . .          (Blank or pattern for member list)
Volume serial . . . . .  (If not cataloged)
Start key . . . . .      key or slot
Skip count . . . . .    Include _____ Repeat skip _____
Print count . . . . .   ALL _____ number of records to be printed

Copybook or Template:
Data set name . . . . . ADLAB.COPYLIB
Member . . . . .        CUST1 (Blank or pattern for member list)

Processing Options:
Print Option  Copybook/template/access  Enter "/" to select option
 3 1. Char    1 1. Above                  _ Edit template _ Type (1,2,S)
 2. Hex      2. Previous                  _ Batch execution
 3. Sngl     3. None                       _ Use proc _____
F1=Help     F2=Split    F3=Exit     F4=Expand   F7=Backward F8=Forward
F9=Swap     F10=Actions F12=Cancel

More: +
```

F8

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The print utility panel is displayed and has more information than can fit on the screen. F8 will scroll to display the remaining panel information. Press F8.

Results from pressing F8



```
Process Options help
-----
File Manager          Print Utility
Command ==> _____

Skip count . . . . . _____ Include _____ Repeat skip _____
Print count . . . . . ALL number of records to be printed

Copybook or Template:
Data set name . . . . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)

Processing Options:
Print Option Copybook/template/access Enter "/" to select option
3 1. Char 1 1. Above - Edit template _ Type (1,2,S)
2. Hex 2. Previous - Batch execution
3. Sngl 3. None - Use proc _____
4. Tabl 4. Physical Blk/CI Access - REXX member selection: P
ISPF Packing 5. Create dynamic - Advanced member selection
1 1. Unpack - Binary mode, reclen _____
2. None - Additional print options
3. Skip

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

Before you generate a report for the first time, you should make sure that your print options are set up correctly. An easy way to get to a list of options is from the options pull-down menu. Put the cursor on the word Options at the top of the screen, and press Enter.

The options pull-down window is displayed



```
Process  Options  Help
-----
File Man 1. Print settings
Command 2. System settings
         3. Tape processing options
         4. Job card specifications
         5. Compiler language selection
         6. COBOL compiler specifications
Copybook 7. HLASM compiler specifications
Data      8. PL/I compiler specifications
Membe    9. Editor options
         10. VSAM Edit sharing options
Processi 11. Temporary Data Set Allocations
Print    12. Output Data Set Allocations
3 1. *3. Trace options
        2.
        3.
        4. Tabl      4. Physical Blk/CI Access
ISPF Packing 5. Create dynamic
1 1. Unpack
  2. None
  3. Skip
F1=Help    F2=Split    F3=Exit    F4=Expand    F7=Backward F8
F9=Swap    F10=Actions F12=Cancel

More: -
Repeat skip
cords to be printed

pattern for member list)

er "/" to select option
Edit template  Type (1,2,S)
Batch execution
Use proc
REXX member selection: P
Advanced member selection
Binary mode, reclen
Additional print options

Enter
```

An options pull down window is displayed. Type a 1 to the left of print settings and press enter.

Print options data set #3



```
Process  Options  Help
-----
File Manager          Set Print Processing Options
Command ==> █

Print Options:
Output destination   Record length   Enter "/" to select option
 3 1. SYSPRINT       1 1. 80        - Page skip
 2. Terminal         2. 132        / Wide print
 3. Data set         / Translate non-printable chars
 4. REXX             - Uppercase message text
                    - Data prefix
                    - Header page

Data set DISP       Dump format
 2 1. OLD            1 1. Updown
 2. MOD              2. Across

Data set name . . . ISS12.FMN.LIST
Output class . . . X
Lines per page . . 60
Record limits . . . (1,*) (n,m) n=begin column, m=end column

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

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```

Here is the Set Print Processing Options panel.

It is strongly recommend that you change the output destination setting. The default setting sends the output of reports that you generate from the online panels right to your terminal. If you have a large report, there would be page after page of output dumped right on your screen. And that is very likely not what you want.

Change the output destination to 3 data set.

Change the output class to X. If you are not sure what held SYSOUT classes are defined 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 friend. And if all that fails, take a guess. It is actually better to give it a bogus class than to leave it unchanged.

Also consider changing the print disposition to OLD. The default is MOD, which means that new reports are added to the end of the print data set. With DISP mod, you will have to scroll to the bottom of your print file to access your latest report. And since it collects reports, every once in a while you will have to empty it. Print DISP OLD means that the contents of the print data set are overwritten when you produce a report. So the print data set would only have the last report you created, and most people prefer it that way.

PF3 to return.

The print data panel is displayed



```
Process  Options  Help
-----
File Manager                      Print Utility
Command ==> █

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name . . . ADLAB.CUST1
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start key . . . . . key or slot
Skip count . . . . . Include Repeat skip
Print count . . . . . ALL number of records to be printed

Copybook or Template:
Data set name . . . . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)

Processing Options:
Print Option Copybook/template/access Enter "/" to select option
 3 1. Char   1. Above           _ Edit template _ Type (1,2,S)
 2. Hex     2. Previous         _ Batch execution
 3. Sngl    3. None                 _ Use proc
F1=Help    F2=Split    F3=Exit    F4=Expand    F7=Backward F8
F9=Swap    F10=Actions F12=Cancel

Enter
```

Printing can be a pretty straightforward operation, all you do is specify the name of the file that you want to print. You do not have to use a copybook or template if you do not need to display your records broken out into fields. But if you want to use a template or copybook, you can name it on the panel as has been done here, in the Copybook or Template Data set name field. Do not forget to select the 1 (for Above) in the Copybook/template/access field.

Next, some of the processing options will be reviewed. In the Print Option field, you can control the format. You have the same formats that are available in view and Edit. Here, a 3 for single format is specified. Just keep in mind that you have to have a copybook or template to print in either table or single format.

It is very important to mention here that you can select the Edit template option on this panel to perform record selection and field selection. Use your template to control which records and columns are printed. In this example, the template will not be edited, so it will print all records and all fields.

To generate the report, just press Enter.

Use the print browse command



```
Process  Options  Help
-----  -
File Manager          Print Utility          100 record(s) printed
Command ==> PB
-----  -
Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name . . . ADLAB.CUST1
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start key . . . . . key or slot
Skip count . . . . . 0 Include Repeat skip
Print count . . . . . ALL number of records to be printed

Copybook or Template:
Data set name . . . . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)

Processing Options:
Print Option Copybook/template/access Enter "/" to select option
 3 1. Char  1 1. Above      _ Edit template _ Type (1,2,S)
 2. Hex    2. Previous    _ Batch execution
 3. Sngl   3. None        _ Use proc
F1=Help   F2=Split   F3=Exit   F4=Expand   F7=Backward F8
F9=Swap   F10=Actions F12=Cancel

Enter
```

The report was generated, and a “records printed” message is displayed above the command line. Since the print options are set up correctly, the report was written to the print data set.

The easiest way to view the report is to use the PB command, which stands for Print Browse. Type PB on the command line and press Enter.

The print browse data set is displayed



```
Process  Options  Help
-----
Print Browse          TSS12.FMN.LIST          Top of 3184
Command ==>          Record AT TOP   Col 2          Scroll CSR
                                     Format CHAR
-----+-----10-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----8-----
**** Top of data ****
IBM File Manager for z/OS          5/20/2010 (2010.140) 09:53 Page 1
* * * * Device 2806, 3390, VOLSER=STF2A6          * * * *
* *      Data Set Name: TSS12.ADLAB.CUST1          * *
* *      DSORG PS, RECFM VB, LRECL 600 BLKSIZE 27998          * *
Field          Data
-----
Printed record number - 1

CUST-ID          01001
NAME             Lynn, Amanda
ACCT-BALANCE     610.05
ORDERS-YTD       10
ADDR             89 Clay Springs Rd
CITY             Atwon
STATE            NV
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=U
F8=Down  F9=Swap  F10=Left  F11=Right  F12=Cancel

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```

And now you are browsing the print data set. Be aware that it is just a sequential file, and you might find it handy to edit it directly or parse it with other utilities to further customize the report. The name of the print data set is displayed just above the command line. At the top of the report, a header page is produced.

F6 will purge the print browse data set. Press F6.

Confirm the purge request



```
Process Options Help
-----
Print Browse TSS12.FMN.LIST Top of 3184
Command ==> Scroll CSR
Press PURGE key to confirm purge request
-----10-----2-----3-----4-----5-----6-----7-----8
**** Top of data ****
IBM File Manager for z/OS 5/20/2010 (2010.140) 09:53 Page 1
* * * * Device 2806, 3390, VOLSER=STF2A6 * * * *
* * Data Set Name: TSS12.ADLAB.CUST1 * *
* * DSORG PS, RECFM VB, LRECL 600 BLKSIZE 27998 * *
Field Data
-----
Printed record number - 1

CUST-ID 01001
NAME Lynn, Amanda
ACCT-BALANCE 610.05
ORDERS-YTD 10
ADDR 89 Clay Springs Rd
CITY Atwon
STATE NV
F1=Help F2=Split F3=Exit F4=Print F5=RFind F6=Purge F7=U
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
```

F6

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A “confirm purge request” message is displayed below the command line. Press F6 again to confirm your purge request.

The purge request completed



```
Process  Options  Help
-----
File Manager          Print Utility          Output purged
Command ==> |
-----
Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name . . . ADLAB.CUST1          +
Member . . . . .          (Blank or pattern for member list)
Volume serial . . . . .          (If not cataloged)
Start key . . . . .          key or slot
Skip count . . . . . 0          Include          Repeat skip
Print count . . . . . ALL          number of records to be printed

Copybook or Template:
Data set name . . . . . ADLAB.COPYLIB
Member . . . . .          CUST1          (Blank or pattern for member list)

Processing Options:
Print Option  Copybook/template/access  Enter "/" to select option
 3 1. Char    1 1. Above                  - Edit template  _ Type (1,2,S)
 2. Hex      2. Previous                  - Batch execution
 3. Sngl     3. None                      - Use proc
F1=Help     F2=Split    F3=Exit    F4=Expand    F7=Backward  F9=Forward
F9=Swap     F10=Actions F12=Cancel

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```

An "output purged" message is displayed above the command line. Press F3 twice.

Option 1 displays the view entry panel



```
Process  Options  Help
-----
File Manager          Primary Option Menu
Command ==> 1 █

0 Settings      Set processing options      User ID . : TSS12
1 View          View data                    System ID : STLABF6
2 Edit          Edit data                    Appl ID  . : FMN
3 Utilities     Perform utility functions   Version . : 10.1.0
4 Tapes        Tape specific functions     Terminal. : 3278A
5 Disk/VSAM    Disk track and VSAM CI functions
6 OAM          Work with OAM objects       Screen.  . : 1
7 Templates    Template and copybook utilities
8 HFS          Access Hierarchical File System
9 WebSphere MQ List, view and edit MQ data
X Exit         Terminate File Manager

User ID . : TSS12
System ID : STLABF6
Appl ID  . : FMN
Version . : 10.1.0
Terminal. : 3278A
Screen.  . : 1
Date.    . : 2010/05/19
Time.    . : 03:15

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

Enter
```

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From the File Manager main menu, Option 1 is View. Type 1 on the command line, and press Enter.

The view entry panel is displayed



```
Process  Options  Help
-----
File Manager                               View Entry Panel
Command ==> █

Input Partitioned, Sequential or VSAM Data Set, or HFS file:
Data set/path name ADLAB.CUST1.COPY +
Member . . . . . (Blank or pattern for member list)
Volume serial . . . . . (If not cataloged)
Start position . . . . . +
Record limit . . . . . Record sampling _

Copybook or Template:
Data set name . . ADLAB.COPYLIB
Member . . . . . CUST1 (Blank or pattern for member list)

Processing Options:
Copybook/template Start position type Enter "/" to select option
 1 1. Above - 1. Key / Edit template 2 Type (1,2,S)
 2 2. Previous 2. RBA Include only selected records
 3 3. None 3. Record number - Binary mode, reclen 80
 4 4. Create dynamic

F1=Help F2=Split F3=Exit F4=Expand F7=Backward F8=
F9=Swap F10=Left F11=Right F12=Cancel

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```

On the view entry panel select edit template and specify 2 for the type then press enter.

Record selection criteria using the contains operator



```
Process  Options  Help
File Manager      Record Selection Criteria      Line 1 of 19
Command ==> 1 | Scroll CSR

1 Edit template field attributes and selection

Cmd Con ( Field Name          Op Value          )
<-> - <-----1-----2-----3-----> <-> <-----1-----2----->
*** **** Top of data ****
___ 1 CUST-REC
___ AND 2 CUSTOMER-KEY
___ AND 3 CUST-ID
___ AND 2 NAME
___ AND 2 ACCT-BALANCE
___ AND 2 ORDERS-YTD
___ AND 2 ADDR
___ AND 2 CITY
___ AND 2 STATE
___ AND 2 COUNTRY
___ AND 2 MONTH()
___ AND 2 OCCUPATION
F1=Help  F2=Split  F3=Exit  F4=CRetriev  F5=RFind  F6
F7=Up    F8=Down   F9=Swap  F10=Left   F11=Right F12
Enter
```

In this example, the contains operator is used to select records meeting the criteria specified in the value field.

Now, navigate to the field selection/edit panel by typing a 1 on the command line and pressing enter.

Select fields to display



```
Process  Options  Help
File Manager          Field Selection/Edit          Line 1 of 20
Command ==>          Scroll CSR

----- Criteria - Enter 1 or 2 to specify expression by field -----
1 Id :
2 Sel: TFLD('#9','CO','GA','IN','MN','OK')
Offset 0
Cmd Seq SHE Ref Field Name          Picture  Type Start Length
      **** Top of data ****
      1 1 CUST-REC                    AN       1    331
      2 2 CUSTOMER-KEY                AN       1     5
s      3 3 CUST-ID                    X(5)     AN       1     5
s      4 2 NAME                      X(17)    AN       6    17
s      5 2 ACCT-BALANCE               S9(7)V99 PD    23     5
s      6 2 ORDERS-YTD                 S9(4)    BI    28     2
      7 2 ADDR                      X(20)    AN    30    20
s      8 2 CITY                      X(14)    AN    50    14
s      9 2 STATE                     X(02)    AN    64     2
      10 2 COUNTRY                   X(11)    AN    66    11
      11 2 MONTH OCCURS 12 TIMES     S9(7)V99 PD    77     5
F1=Help  F2=Split  F3=Exit  F4=Expand  F5=RFin  F6=RunTemp
F7=Up    F8=Down   F9=Swap  F10=Left  F11=Right F12=Cancel
```

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The field selection/edit panel is displayed. Note the selection criteria, from the previous panel, has been converted to pseudo REXX code and is shown in the 'Sel' field - which is to the right of option 2 - and the field has been protected against updates.

By default, all the Field Names are selected when editing a template for the first time.

In this example, type an "S" as a line command next to all the fields you want to select.

Press F6 to run the template without saving it.

Turn off the shadow lines



```
Process  Options  Help
View      TSS12.ADLAR CUST1.COPY      +      Rec 3 of 96
Command ===> SHAD ALL OFF █          Scroll CSR
                                      Record 3      Format TABL
CUST-ID NAME      ACCT-BALANCE  ORDERS-YTD  CITY      STATE
#3      #4      #5      #6 #8      #9
AN 1:5  AN 6:17      PD 23:5    BI 28:2  AN 50:14  AN 64:
<--->  <---+---1---+>  <---+---1>  <---+>  <---+---1--->  <>
000003 02202  Moritz, Margaret  1234.56      5 Oakdale  MN
-----
000005 03390  Stout, Doug      74.00        3 Indianapolis IN
-----
000042 39900  Allen, Dave      15000.50     1 Atlanta  GA
-----
----- 1 Line(s) not selected
----- 1 Line(s) excluded
----- 6 Line(s) not selected
----- 2 Line(s) excluded
----- 1 Line(s) not selected
----- 1 Line(s) excluded
----- 40 Line(s) not selected
----- 1 Line(s) excluded
F1=Help  F2=Zoom  F3=Exit  F4=CRetriev  F5=RFind  F6
F7=Up    F8=Down  F9=Swap  F10=Left   F11=Right F12
Enter
```

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The view panel is displayed with the three records that met the selection criteria. Type the SHADOW ALL OFF command on the command line and press Enter.

Shadow lines were removed



```
Process  Options  Help
View      TSS12.ADLAB.CUST1.COPY      +      Rec 3 of 96
Command ==> RP ALL
SHAD      Record 3      Format TABL
CUST-ID  NAME      ACCT-BALANCE  ORDERS-YTD  CITY      STATE
#3       #4
AN 1:5   AN 6:17    PD 23:5      BI 28:2    AN 50:14   AN 64:
<--->   <---+---1---+> <---+---1>   <---+>   <---+---1---+> <>
000003  02202  Moritz, Margaret  1234.56    5 Oakdale  MN
000005  03390  Stout, Doug      74.00      3 Indianapolis IN
000042  39900  Allen, Dave      15000.50   1 Atlanta   GA
*****  ****  End of data  ****

F1=Help  F2=Zoom  F3=Exit  F4=CRetriev  F5=RFind  F6=
F7=Up    F8=Down  F9=Swap  F10=Left   F11=Right F12=
Enter
```

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The SHADOW ALL OFF command removed all the dash lines from the display.

On the command line type the RP ALL command to print only the selected records and columns to the print browse data set then press Enter.

Eight records were printed to the browse data set

```
Process  Options  Help
View      TSS12.ADLAB.CUST1.COPY      +      3 record(s) printed
Command ==> PB
SHAD      Record 3      Format TABL
CUST-ID  NAME      ACCT-BALANCE  ORDERS-YTD  CITY      STATE
#3       #4
AN 1:5   AN 6:17    PD 23:5      BI 28:2     AN 50:14   AN 64:
<--->   <---+---1---+> <---+---1>   <---+>     <---+---1---+> <>
000003  02202  Moritz, Margaret  1234.56     5 Oakdale  MN
000005  03390  Stout, Doug      74.00       3 Indianapolis IN
000042  39900  Allen, Dave      15000.50    1 Atlanta  GA
*****  ****  End of data  ****

F1=Help  F2=Zoom  F3=Exit  F4=CRetriev  F5=RFind  F6=
F7=Up    F8=Down  F9=Swap  F10=Left   F11=Right F12=
Enter
```

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A “records printed” message is displayed above the command line. Now type the PB command on the command line to display the print browse data set then press Enter.

The print browse data set is displayed



```
Process  Options  Help
-----
Print Browse          TSS12.FMN.LIST                      Top of 11
Command ==> |_____                               Scroll CSR
                                         Record AT TOP Col 2 Format CHAR
-----+-----10-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----8
**** Top of data ****
IBM File Manager for z/OS                      5/24/2010 (2010.144) 11:03 Page 1
* * * * Device 280A, 3390, VOLSER=SMS01E          * * * *
* *      Data Set Name: TSS12.ADLAB.CUST1.COPY      * *
* *      DSORG PS, RECFM VB, LRECL 600 BLKSIZE 27998 * *
IBM File Manager for z/OS                      5/24/2010 (2010.144) 11:03 Page 2
CUST-ID NAME          ACCT-BALANCE ORDERS-YTD CITY          STATE
AN 1:5 AN 6:17          PD 23:5 BI 28:2 AN 50:14          AN 64:2
<---> <---+-----1-----> <---+-----1> <---+> <---+-----1---> <>
02202 Moritz, Margaret          1234.56          5 Oakdale          MN
03390 Stout, Doug              74.00           3 Indianapolis     IN
39900 Allen, Dave              15000.50        1 Atlanta           GA
**** End of data ****

F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=U
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel

F4
```

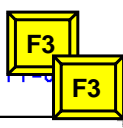
The print browse data set is displayed. To routes the contents of the print browse data set to the output queue press F4.

The data set was printed



```
Process  Options  Help
Print Browse          TSS12.FMN.LIST          11 record(s) printed
Command ==> |                                     Scroll CSR
Record AT TOP Col 2 Format CHAR
-----10-----2-----3-----4-----5-----6-----7-----8
**** Top of data ****
IBM File Manager for z/OS                    5/24/2010 (2010.144) 11:03 Page 1
* * * * Device 280A, 3390, VOLSER=SMS01E          * * * *
* *   Data Set Name: TSS12.ADLAB.CUST1.COPY          * *
* *   DSORG PS, RECFM VB, LRECL 600 BLKSIZE 27998    * *
IBM File Manager for z/OS                    5/24/2010 (2010.144) 11:03 Page 2
CUST-ID NAME          ACCT-BALANCE ORDERS-YTD CITY          STATE
AN 1:5 AN 6:17          PD 23:5 BI 28:2 AN 50:14          AN 64:2
<---> <---+-----1-----> <---+-----1> <---+> <---+-----1---> <>
02202 Moritz, Margaret          1234.56          5 Oakdale          MN
03390 Stout, Doug              74.00           3 Indianapolis     IN
39900 Allen, Dave              15000.50        1 Atlanta          GA
**** End of data ****

F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel
```



A “records printed” message is displayed above the command line. F3 twice returns to the primary option menu.

The print was routed to the output queue



```
Display Filter View Print Options Help
-----
SDSF STATUS DISPLAY ALL CLASSES                LINE 1-1 (1)
COMMAND INPUT ==>                               SCROLL ==> CSR
NP JOBNAME JobID Owner Prty Queue C Pos SAff ASys Status
? TSS12 TSU02619 TSS12 15 EXECUTION F6 F6

F1=HELP F2=SPLIT F3=END F4=swap nex F5=IFIND F6=
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=
Enter
```

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This example is using SDSF as a SYSOUT viewer, although you might use a different one. Type a question mark under the NP column and press enter.

Select the print output



```
Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB TSS12 (TSU02619) LINE 1-6 (6)
COMMAND INPUT ==> SCROLL ==> CSR
NP DDNAME StepName ProcStep DSID Owner C Dest Rec-Cnt Page
JESJCLIN 1 TSS12 Z 2
JESMSGLG JES2 2 TSS12 Z 2
JESJCL JES2 3 TSS12 Z 147
JESYSMSG JES2 4 TSS12 Z 2
$INTTEXT JES2 5 TSS12 A 92
s | SYS00053 TPROC02 TPROC02 106 TSS12 X LOCAL 11

F1=HELP F2=SPLIT F3=END F4=swap nex F5=IFIND F6=
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=
Enter
```

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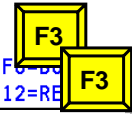
In this example the individual sections of output are displayed and the one at the bottom of the list is in class X the held class. Use the S line command to select the held report.

The print output is displayed



```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY TSS12      TSU02619  DSID   106 LINE 0      COLS 02- 81
COMMAND INPUT ==> █          SCROLL ==> CSR
***** TOP OF DATA *****
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* * * * Device 280A, 3390, VOLSER=SMS01E * * * *
* *   Data Set Name: TSS12.ADLAB.CUST1.COPY * *
* *   DSORG PS, RECFM VB, LRECL 600 BLKSIZE 27998 * *
IBM File Manager for z/OS      5/24/2010 (2010.144) 11:03 Page 2
CUST-ID NAME          ACCT-BALANCE ORDERS-YTD CITY          STATE
AN 1:5 AN 6:17      PD 23:5   BI 28:2 AN 50:14      AN 64:2
<---> <---+---1---+> <---+---1>   <---+> <---+---1---> <>
02202 Moritz, Margaret      1234.56      5 Oakdale      MN
03390 Stout, Doug          74.00        3 Indianapolis  IN
39900 Allen, Dave          15000.50     1 Atlanta       GA
***** BOTTOM OF DATA *****

F1=HELP  F2=SPLIT  F3=END    F4=swap nex  F5=IFIND  F6=DEL  F7=UP
F7=UP    F8=DOWN   F9=SWAP   F10=LEFT    F11=RIGHT F12=RE
```



The report is displayed in the held queue where it may be released to a printer. F3 twice will end the session.

That is the end of this section, which described how to print data.

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