

**Chapter  
2**

**BROWSE**

*Get on the  
Fast Track!*



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## Objectives

You will learn:

- Accessing File-AID.
- Browsing a data file.
- PDS PROCESSING OPTIONS.
- Selecting records to browse.
- Specifying record layout and XREF information.
- Browse a sequential dataset.
- BROWSE - DATASET SPECIFICATION.
- Using selection criteria.
- Types of data that can be scanned.
- SHOW command.
- Specifying the type of field information to display.
- DISPLAY command.
- Viewing the layout in column location order.
- Defining formatted field selection criteria.
- Defining a compound AND condition.
- Defining unformatted field selection criteria.
- Use the vertical view format.
- Displaying the next record in the dataset.
- Controlling the records not selected with an information line.
- Removing the mode prompt message line.

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## 1 Accessing File-AID

In order to access File-AID:

1. Log on to TSO using the appropriate logon PROC or allocation CLIST for File-AID.
2. Use the appropriate option code or execution CLIST to display the File-AID Primary Option Menu.

### Example: File-AID PRIMARY OPTION MENU

```
FILE-AID 9.2.0 ----- PRIMARY OPTION MENU -----
OPTION ==>

0 PARAMETERS - SPECIFY ISPF AND FILE-AID PARAMETERS      USERID - #6001
1 BROWSE     - DISPLAY FILE CONTENTS                      PF KEYS  - 12
2 EDIT       - CREATE OR CHANGE FILE CONTENTS            TERMINAL - 3278A
3 UTILITIES  - FILE-AID/SPF EXTENDED UTILITIES           TIME     - 11:42
5 PRINT      - PRINT FILE CONTENTS                       JULIAN   - 10.279
6 SELECTION  - CREATE OR CHANGE SELECTION CRITERIA       DATE     - 10/10/06
7 XREF       - CREATE OR CHANGE LAYOUT CROSS REFERENCE   CCSID    - 00037
8 VIEW       - VIEW INTERPRETED RECORD LAYOUT
9 REFORMAT   - CONVERT FILE FROM ONE FORMAT TO ANOTHER
10 COMPARE   - COMPARE FILE CONTENTS
C CHANGES   - DISPLAY SUMMARY OF FILE-AID CHANGES
T TUTORIAL   - DISPLAY INFORMATION ABOUT FILE-AID
X EXIT       - TERMINATE FILE-AID AND RETURN TO ISPF

      USE END TO TERMINATE FILE-AID
```

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## 2 Browsing a Data File

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File-AID provides the capability for browsing a file created through any standard z/OS access method. An entire dataset or a selected subset of records can be displayed.

Record layouts can be supplied and the data viewed in four display modes:

<b>Browse Mode</b>	<b>Explanation</b>
Character	Provides a full-screen view of the data.
Formatted	View data using a record layout. Data is presented one record at a time and formats each record field-by-field. Record layouts can be either COBOL - FD: 01 level or PL/I - Declare. Cross references - XREFs are used to define automatic selection of record layouts for datasets with multiple record types.
Vertical formatted	Provides a full-screen view of the data. The record layout fields are used as column headers.
Unformatted	The unformatted browse mode provides a full-screen display of your data one record at a time without record layout formatting. File-AID displays 70 characters of data per line until all data for the record is shown or the screen is filled. This mode is not available for DBCS terminals.

### 3 PDS PROCESSING OPTIONS

When the "FROM" and "TO" datasets are partitioned, special member processing is automatically provided.

FILE-AID ----- PDS PROCESSING OPTIONS -----

COMMAND ==>

EDIT DATASET: #6001.CLASS.COBOL

SPECIFY MEMBER SELECTION OPTIONS (BLANK FOR ALL MEMBERS)

MEMBER NAME MASK	====>		
MEMBER NAME RANGE	====>	TO	====>
LAST MODIFIED USERID	====>	TO	====>
CREATION DATE	====>	TO	====> (YY/MM/DD)
MODIFICATION DATE	====>	TO	====> (YY/MM/DD)

USE ENTER TO CONTINUE, END TO RETURN TO DATASET SPECIFICATION SCREEN

#### 3.1 FILE-AID MEMBER HITS

FILE-AID MEMBER HITS - #6001.CLASS.COBOL ----- Row 1 of 52

COMMAND ==>

SCROLL ==> CSR

S	NAME	VV	MM	CREATED	CHANGED	SIZE	INIT	MOD	ID
	ANGIE	01.00	09/06/11	09/06/11	10:48	19	19	0	#6002
	BENEREC	01.03	09/05/12	09/05/12	19:25	10	16	0	#6001
	BUGS	01.00	10/05/10	10/05/10	09:38	80	80	0	#6001
	CATRECD	01.00	10/10/06	10/10/06	11:59	5	5	0	#6001
	DMSPROG	01.00	09/03/23	09/03/23	14:47	19	19	0	#6001
	ELPT1	01.03	07/02/13	07/10/15	14:03	19	16	0	#6164
	ELPT10	01.01	07/02/20	07/02/20	14:37	22	14	0	#6002
	ELPT13	01.01	07/02/21	07/02/21	10:35	49	49	0	#6002
	ELPT21	01.01	07/02/27	07/02/27	15:40	36	35	0	#6002
	ELPT22	01.02	07/02/28	07/02/28	11:26	96	43	0	#6002
	ERIN	01.00	09/06/09	09/06/09	09:45	6	6	0	#6002
	FARECORD	01.00	09/05/12	09/05/12	17:40	8	8	0	#6001
	FORMA	01.01	05/02/23	06/04/12	17:30	6	6	0	#6000
	FORMATS	01.01	05/02/23	05/03/10	16:12	16	16	0	#6002
	FORMB	01.01	05/02/23	06/04/12	17:30	5	5	0	#6000
	FORMC	01.01	05/02/23	06/04/12	17:30	5	5	0	#6000
	INREC	01.00	09/05/11	09/05/11	18:15	6	6	0	#6001
	INRECORD	01.00	09/05/11	09/05/11	18:15	6	6	0	#6001
	JCL01	01.00	09/06/11	09/06/11	14:36	2	2	0	#6002
	LAB2	01.10	08/11/04	09/05/21	19:38	649	676	0	#6005
	LAB4ODO	01.01	09/02/03	09/05/12	14:33	765	764	2	#6124

---

## 4 Selecting Records to Browse

The Browse Dataset Specification screen is used for defining a browse request.

The browse request consists of:

Browse mode	Browse dataset
Record layout and XREF information	Selection criteria usage information

---

### 4.1 Temporary Selection Criteria

Temporary selection criteria can be created for viewing a subset of records. A record layout is supplied in order to view the data in formatted and vertical formatted display modes.

In order to select a record for browsing:

1. Type an F in the Browse Mode field to request the Formatted mode for viewing the data records.
2. Type the dataset name and optional pattern character in the Browse dataset field. The asterisk is a pattern character. It represents any single level qualifier, or partial level qualifier when it is preceded by 1 to 7 characters.

When using a pattern character in a dataset name, File-AID displays a list of dataset names that match the pattern that has been specified.

The S line command can be used for selecting a dataset from this list.

3. Type an S in the Record layout usage field to indicate that a single layout member will be used for describing the data records.
4. Type the record layout dataset name in the Record layout dataset field.

The record layout dataset is a dataset containing the source code for one or more record layouts.

5. Type the member name in the layout Member name field.

If a member is not specified, File-AID displays a list of members.

6. Type a T in the Selection criteria usage field to indicate that a new temporary selection criteria specification is to be created.

Selection criteria provide the capability for selecting specific records in a data file for processing.

- Usage option T - Temporary dynamically invokes the Selection Criteria function and presents the Selection Criteria Menu.
- When either T or Q has been specified in the Selection criteria usage field on the BROWSE - DATASET SPECIFICATION screen, File-AID will permit the programmer to save temporary selection criteria by issuing the SAVE command.

```

FILE-AID ----- BROWSE - DATASET SPECIFICATION -----
COMMAND ==>

BROWSE MODE                ==> C                (F=FMT; C=CHAR; V=VFMT; U=UNFMT)

SPECIFY BROWSE INFORMATION:
  DATASET NAME OR HFS PATH ==> CATEGORY.DATA
  MEMBER NAME              ==>                (BLANK OR PATTERN FOR MEMBER LIST)
  VOLUME SERIAL            ==>                (IF DATASET IS NOT CATALOGED)

SPECIFY RECORD LAYOUT AND XREF INFORMATION:
  RECORD LAYOUT USAGE     ==> N                (S = SINGLE; X = XREF; N = NONE)
  RECORD LAYOUT DATASET   ==>
  MEMBER NAME             ==>                (BLANK OR PATTERN FOR MEMBER LIST)
  XREF DATASET NAME       ==>
  MEMBER NAME             ==>                (BLANK OR PATTERN FOR MEMBER LIST)

SPECIFY SELECTION CRITERIA INFORMATION:      (E = EXISTING; T = TEMPORARY;
  SELECTION CRITERIA USAGE ==> N              M = MODIFY; Q = QUICK; N = NONE)
  SELECTION DATASET NAME   ==>
  MEMBER NAME              ==>                (BLANK OR PATTERN FOR MEMBER LIST)

```

---

## 5 Last Referenced File List

The Last Referenced File can also be used for selecting a browse or edit dataset is to use.

- It lists up to the last 50 files that a programmer has browsed or edited with File-AID.
- It is displayed when the FILELIST primary command or the Dataset name or HFS path field on the Browse or Edit Dataset Specification screen has been blanked out.

Primary commands provide the capability for a programmer to sort by filename or referenced date and locate an entry by filename.

Line commands provide the capability for:

- selecting a file for processing.
- locking, unlocking, and deleting entries from the list.
- displaying the complete HFS path name.
- displaying related dataset information.

```
File-AID          Catalog Utility Dataset List          Select BROWSE Input
COMMAND ==>          SCROLL ==> PAGE
  D A T A S E T N A M E          Type          Volume          Status
  USERID9.FASAMP.COMPARE          CLUSTER          PRD928
  USERID9.FASAMP.EMPLOYEE          CLUSTER          PRD928
  USERID9.FASAMP.EMPLOYEE2          NON VSAM          PRD925
S  USERID9.FASAMP.EMPMAS          NON VSAM          PRD925
  USERID9.FASAMP.INVFILE          NON VSAM          PRD925
  USERID9.FASAMP.INVFILE2          NON VSAM          PRD925
  USERID9.FASAMP.JCL          NON VSAM          PRD925
  USERID9.FASAMP.LAYOUTS          NON VSAM          PRD925
  USERID9.FASAMP.LOADLIB1          NON VSAM          PRD925
  USERID9.FASAMP.LOADLIB2          NON VSAM          PRD925
  USERID9.FASAMP.ORDERFILE          NON VSAM          PRD925
  USERID9.FASAMP.RFMTDEF          NON VSAM          PRD925
  USERID9.FASAMP.SEGFILE          NON VSAM          PRD925
  USERID9.FASAMP.SELCRIT          NON VSAM          PRD925
  USERID9.FASAMP.XREF          NON VSAM          PRD925
***** BOTTOM OF DATA *****
```



## 6 Specify Record Layout and XREF Information

The following list of items specify Record Layout and XREF Information:

Item	Description									
Record layout usage	Specify one of the following values: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">S</td> <td style="width: 40%;">Single record layout.</td> <td style="width: 50%;">Valid for all Edit modes.</td> </tr> <tr> <td style="text-align: center;">X</td> <td>XREF - record layout cross reference.</td> <td>Specify when more than one record layout is need for a single dataset. Not valid for Edit mode V.</td> </tr> <tr> <td style="text-align: center;">N</td> <td>None; this is the default.</td> <td>No record layout. File-AID does not attempt to validate or process the record layout or XREF dataset. Valid only for Edit mode C.</td> </tr> </table>	S	Single record layout.	Valid for all Edit modes.	X	XREF - record layout cross reference.	Specify when more than one record layout is need for a single dataset. Not valid for Edit mode V.	N	None; this is the default.	No record layout. File-AID does not attempt to validate or process the record layout or XREF dataset. Valid only for Edit mode C.
S	Single record layout.	Valid for all Edit modes.								
X	XREF - record layout cross reference.	Specify when more than one record layout is need for a single dataset. Not valid for Edit mode V.								
N	None; this is the default.	No record layout. File-AID does not attempt to validate or process the record layout or XREF dataset. Valid only for Edit mode C.								
Record layout dataset	Specify the name of a dataset that contains the COBOL or PL/I record layout. This file is required when the Record layout usage filed is S or X.  A pattern dataset name can be entered in this field to display a list of datasets from which a selection can be made. A pattern dataset name or mask consists of explicit characters or a combination of explicit and pattern characters.									
Member name	Specify the member name.  This field can be left blank or a pattern member name entered to display a list of members form which a selection can be made.  A pattern ember name or mask consists of explicit characters or a combination of explicit and pattern characters. Pattern names cannot be entered in both the Dataset name and Member name fields at the same time.									
XREF dataset name	Specify the name of a dataset that contains the record layout cross reference - XREF members to use with multiple record type datasets.  A pattern dataset name in this field can be entered to display a list of datasets from which a selection can be made. A pattern dataset name or mask consists of explicit characters or a combination of explicit and pattern characters.									
Member name	Specify the member name.  This field can be left blank or a pattern member name can be entered to display a list of members from which a selection can be made.  A pattern member name or mask consists of explicit characters or a combination of explicit and pattern characters. Pattern names cannot be entered in both the Dataset name and Member name fields at the same time.									

---

## 7 Examples

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### 7.1 Browse a Sequential Dataset

```

File-AID - Browse - #6001.CATEGORY.DATA ----- LINE 0000 COL 1 80
COMMAND ==>                               SCROLL ==> CSR
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----8
***** TOP OF DATA *****-CAPS ON-**
DA DISABILITY CLAIMS
DB WORKER COMPENSATION
DC HOLIDAY BENEFITS
RA BROKEN BONE CLAIMS
RB FREE DVD CLAIMS
RC DISPUTED CLAIM
SA INVALID CLAIM
SB UNKNOWN CLAIM
***** BOTTOM OF DATA *****-CAPS ON-**

```

Some characters may look strange in the Browse. Those columns contain binary data such as COMP, and COMP 3 data. Hex browse allows the examination of the actual content.

---

### 7.2 Hex Browse

```

File-AID  Browse  B039181.FASAMP.INVFILE           LINE 0000 COL 1 80
COMMAND ==>                               SCROLL ==> PAGE
***** TOP OF DATA ***** CAPS OFF *
COAX 12222      COAXIAL CABLE                       FT      NYCB/O      121593C
CDCE6FFFFFFF44444CDCECCD4CCDC444444444444444444444444444444444444CE0020DECC6D444400FFFFFFFC
3617012222000003617913031235000000000000000000000000000000000063005C58321600030C1215933

COAX 12223      COAXIAL CABLE                       FT      NYCB/O      121593C
CDCE6FFFFFFF44444CDCECCD4CCDC444444444444444444444444444444444444CE4444DECC6D4444020FFFFFFFC
36170122230000036179130312350000000000000000000000000000000063000058321600005C1215933

COAX 12223A     COAXIAL CABLE                       FT      NYCB/O      120593C
CDCE6FFFFFFF44444CDCECCD4CCDC444444444444444444444444444444444444CE0020DECC6D444400FFFFFFFC
36170122231000036179130312350000000000000000000000000000000063005C58321600010C1205933

COAX 747        COAXIAL CABLE                       FT      NYCB/O      121593C
CDCE6FFF444444444CDCECCD4CCDC44444444444444444444444444444444444CE0020DECC6D444400FFFFFFFC
36170747000000036179130312350000000000000000000000000000000063005C58321600090C1215933

COAX 747 A      COAXIAL CABLE                       FT      NYCAVAIL  & 121593C
CDCE6FFF6C444444CDCECCD4CCDC444444444444444444444444444444444444CE0000DECCECCD4050FFFFFFFC
36170747010000036179130312350000000000000000000000000000000063000C58315193020C1215933

```

Enter FMT for formatted mode, VFMT for vertical format, HEX OFF for Char

In order to switch to character mode, enter the HEX OFF command.

---

### 7.3 BROWSE - DATASET SPECIFICATION

```
FILE-AID ----- BROWSE - DATASET SPECIFICATION -----
COMMAND ==>

BROWSE MODE                ==> C          (F=FMT; C=CHAR; V=VFMT; U=UNFMT)

SPECIFY BROWSE INFORMATION:
  DATASET NAME OR HFS PATH ==> CATEGORY.DATA
  MEMBER NAME              ==>           (BLANK OR PATTERN FOR MEMBER LIST)
  VOLUME SERIAL            ==>           (IF DATASET IS NOT CATALOGED)

SPECIFY RECORD LAYOUT AND XREF INFORMATION:
  RECORD LAYOUT USAGE      ==> N          (S = SINGLE; X = XREF; N = NONE)
  RECORD LAYOUT DATASET    ==>
  MEMBER NAME              ==>           (BLANK OR PATTERN FOR MEMBER LIST)
  XREF DATASET NAME        ==>
  MEMBER NAME              ==>           (BLANK OR PATTERN FOR MEMBER LIST)

SPECIFY SELECTION CRITERIA INFORMATION:      (E = EXISTING; T = TEMPORARY;
  SELECTION CRITERIA USAGE ==> t          M = MODIFY; Q = QUICK; N = NONE)
  SELECTION DATASET NAME   ==>
  MEMBER NAME              ==>           (BLANK OR PATTERN FOR MEMBER LIST)
```

---

### 7.4 Vertical Format

```
File-AID - Edit - #6001.CATEGORY.DATA ----- COLUMNS 000001 000056
COMMAND ==>                                SCROLL ==> CSR
      CR-CODE  FILLER  CR-DESC                FILLER
      2/AN     1/AN   20/AN                  57/AN
      (1-2)    (3-3)  (4-23)                 (24-56)
      1----- 2----- 3----- 4-----
***** ***** TOP OF DATA *****-CAPS ON-***
000001 DA                DISABILITY CLAIMS
000002 DB                WORKER COMPENSATION
000003 DC                HOLIDAY BENEFITS
000004 RA                BROKEN BONE CLAIMS
000005 RB                FREE DVD CLAIMS
000006 RC                DISPUTED CLAIM
000007 SA                INVALID CLAIM
000008 SB                UNKNOWN CLAIM
***** ***** BOTTOM OF DATA *****-CAPS ON-***
```

---

## 8 Temporary Selection Criteria - Specification

The SELECTION CRITERIA MENU screen is used for accessing facilities for defining selection conditions based on formatted or unformatted field selection criteria and/or options for reading records.

- Option 1 - Enter selection criteria options displays the Selection Criteria Options screen.  
This is where File-AID can be instructed to begin selecting records, establishing a random read pattern, and setting limits on the number of records processed.
- The criteria menu can be used for accessing selection options or either of the two types of field selection criteria: formatted and unformatted.
  - Formatted selection criteria allow records to be selected based on data within a field as specified by a record layout.
  - Unformatted selection criteria allow records to be selected based on freeform data specifications without using a record layout.

Processing of the temporary selection criteria occurs when END is performed from the menu.

If Q - Quick has been specified on the usage option on the Browse Dataset Specification screen, File-AID creates temporary criteria but bypasses the Selection criteria menu screen and takes the programmer directly to the unformatted selection criteria screen.

---

### 8.1 SELECTION CRITERIA MENU

```
FILE-AID - SELECTION CRITERIA MENU - TEMPORARY -----
OPTION ===>
```

		- STATUS -
1	OPTIONS - ENTER SELECTION CRITERIA OPTIONS	DEFAULT
G	GLOBAL - GLOBAL FIELDS	0 FIELDS
2	FORMATTED - EDIT FORMATTED SELECTION CRITERIA	0 SETS
3	UNFORMATTED - EDIT UNFORMATTED SELECTION CRITERIA	0 SETS

```
MEMBER LIST DESCRIPTION ===> _____
```

```
LONG ===> _____
DESCRIPTION ===> _____
```

```
USE VIEW COMMAND TO DISPLAY SELECTION CRITERIA SUMMARY
USE SAVE COMMAND TO WRITE SELECTION CRITERIA REQUEST
USE END TO CONTINUE PROCESSING
USE CANCEL TO RETURN TO MAIN PANEL
```

---

## 8.2 Selection Options

Field	Result
Starting record key	Provides for the specification of a random starting point for File-AID to begin selecting records. This field can be specified for VSAM KSDS, keyed BDAM, and ISAM files.
Initial records to skip	Instructs File-AID how many records to skip before processing the dataset. Valid values are 0 through 999999. A value of 0 - zero tells File-AID to process all records in the dataset.
Subsequent Selection Interval: Records to select	Instructs File-AID as to how many records to retrieve from the dataset per interval. Valid values are 1 through 999999. The default value is 1. File-AID applies all field selection criteria after it retrieves each record.
Number of records to search	Instructs File-AID as to the maximum number of records to read from the dataset. This parameter can prevent excessive I/O processing when searching large files. Valid values are ALL and 0 through 999999.
Number of records to select	Instructs File-AID as to the maximum number of records to select if the records match the selection criteria. Valid values are ALL and 0 through 999999. The default for the field is ALL.

---

## 8.3 Selection Criteria Options

```
File-AID                Selection Criteria Options
COMMAND ===>

Specify Selection Criteria Options:

Starting record key     ===>
OR
Starting RBA or RRN    ===>
Initial records to skip ===> 0
Subsequent Selection Interval:
  Records to select     ===> 1
  Records to skip       ===> 0
Number of records to search ===> ALL
Number of records to select ===> 250
SEQ/VSAM processing direction ===> F

Start at the following record key
(both blank for start of dataset)
OR at the following RBA or RRN
then skip this many records
then repeat the following
  select this many records
  then skip this many records
until
you have read this many records
or selected this many records
(F = Forward; B = Backward)

Use ENTER to return to selection criteria menu
```

### 8.4 Formatted Selection Criteria

```

File-AID - Edit - #6001.CATEGORY.DATA ----- FS738-LAYOUT LOADED
COMMAND ===>                                SCROLL ===> CSR
RECORD:      1             CATEGORY-RECORD            LENGTH:      80
---- FIELD NUMBER/NAME ----- -FORMAT- ----+-----1-----+-----2-----+-----3-----+-----4
1 CR-CODE             2/AN   DA
2 FILLER              1/AN
3 CR-DESC             20/AN   DISABILITY CLAIMS
4 FILLER              57/AN
                        (POS 41-57)
***** BOTTOM OF DATA *****
    
```

Valid commands are: INSERT, DELETE, REPEAT, FWD, BACK, CANCEL, or PROFILE  
 Use VIEW command to browse selection criteria summary

### 8.5 Unformatted Selection Criteria

```

File-AID                Unformatted Selection Criteria            Row 1 to 16 of 20
COMMAND ===>                                SCROLL ===> CSR
    
```

Use END to continue, CANCEL to return to main screen.

Cmd	/OR	Position	Length	RO	Data Value
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					
AND					

---

## 9 Types of Data that May be Scanned

C" - Alphanumeric	P" - Packed Decimal
X" - Hexadecimal	B" - Binary Data
T" - Text	blank – Alphanumeric

---

### 9.1 Hexadecimal Data

Hexadecimal data can be any length that is a multiple of 2 up to column 80 on screen.

X'F9F3F4'
X'0003499C'

---

### 9.2 Packed Decimal Data

Packed decimal data can be up to 31 digits or a packed length of 16.

Packed data can be signed by inserting a sign character (+ or -) immediately after the first quote.

Only significant digits can be entered.

P'1'	Signed F	Unsigned
P'+1'	Signed C	Positive
P'-1'	Signed D	Negative

---

## 10 Selection Criteria Options - Specification

The Selection Criteria Options screen provides for controlling the selection of records based on a starting record key, RBA or RRN, and record counts.

File-AID reads and selects records in a file based on the values specified on this screen. File-AID then compares the selected records to any formatted and unformatted selection criteria to determine if any of the selected records match the selection criteria.

### Example:

These steps will limit the number of selected matching records to 12.

1. Type a value of 12 in the Number of records to select field.

The value specified in this field sets the limit for the total number of records that File-AID selects from the dataset. Valid values are ALL - the default, 0 - means all, and 1 through 999999.

2. Type FMT in the COMMAND field.

If no command is issued, both END or ENTER produce the same result; the programmer will be returned to the selection criteria menu.



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**11 Formatted Selection Criteria Screen**

---

On initial entry to the formatted screen, a message is displayed on line 3 and lists some of the valid commands that can be used.

<b>Command</b>	<b>Explanation</b>
CAPS	Use CAPS OFF to establish exact case testing for character fields. Default CAPS ON provides tests for any case and translates entered lowercase characters to uppercase.
DISPLAY	Control fields displayed and format of fields.
END	Return to the Selection Criteria Menu screen.
SHOW	Control information displayed in center column: OFFSET, FORMAT, PICTURE.
OFFSET	Control format of offset shown: COLUMNS, RELATIVE, HEX.
OPTIONS	Jump to Selection Criteria Options screen.
UNFMT	Jump to Unformatted Selection Criteria screen.
ZERO	Control zero suppress for numeric fields.

## 12 SHOW Command

The SHOW primary command can be used for changing the Descriptor section contents or in FMT mode only select the number to precede the item name in the Name section.

The format of the SHOW command is:

```

COMMAND ==> SHOW  FORMAT  (F)
                S    PICTURE  (P)
                OFFSET  (O)
                LEVEL   (L)
                NUMBER  (N)

```

FORMAT, PICTURE and OFFSET change the contents of the Descriptor section in both FMT and VFMT modes; while LEVEL and NUMBER specify which value is to precede the item name in the Name section of the FMT mode display.

The operand is "remembered" between browse/edit sessions as well as other formatted displays.

The following topics are presented sequentially or may be selected by number:

- 1 SHOW FORMAT, SHOW PICTURE, SHOW OFFSET
- 2 SHOW LEVEL, SHOW NUMBER (FMT mode only)

When FORMAT is specified, the description section has the byte length and field type currently in effect for the item.

The field types and applicable language restrictions are:

Field Type	Language	Restrictions
AN	COBOL	DISPLAY item, X or A specified in the PICTURE clause.
AREA	PL/I	AREA item.
BFL	PL/I	BINARY FLOAT item.
BFX	PL/I	BINARY FIXED item.
BI	COBOL	COMP - BINARY items.
BIS	COBOL	COMP SYNC - BINARY items.
BIT	PL/I	BIT item.
CHAR	PL/I	CHARACTER item.
CMP	Both	Computational item - 1 or 3 byte binary.
DBCS	Both	DBCS - GRAPHIC item.
DFL	PL/I	DECIMAL FLOAT item.
DFX	PL/I	DECIMAL FIXED item.
DPFP	COBOL	COMP-2 item; this is a double precision floating point.

Field Type	Language	Restrictions
HEX	Both	Items being displayed in hexadecimal.
NUM	COBOL	DISPLAY items with an unsigned, all numeric PICTURE.
NUMS	COBOL	DISPLAY items with a signed, all numeric PICTURE.
OFST	PL/I	OFFSET item.
P	COBOL	An unsigned COMP-3; this is a PACKED-DECIMAL item.
PFL	PL/I	Floating point numeric PICTURE item, signed.
PFLU	PL/I	Floating point numeric PICTURE item, unsigned.
PFX	PL/I	Fixed point numeric PICTURE item, signed.
PFXU	PL/I	Fixed point numeric PICTURE item, unsigned.
PIC	Both	Non-numeric PICTURE item.
PS	COBOL	A signed COMP-3; this is a PACKED-DECIMAL item.
PTR	PL/I	POINTER item.
SPFP	COBOL	A COMP-1 item; this is single precision floating point.
VBIT	PL/I	BIT VARYING item.
VCHR	PL/I	CHARACTER VARYING item.

---

## 13 Type of Field Information to Display - Specifying

The SHOW primary command, which is abbreviated as S, sets the display of various types of field information for a record.

The SHOW PICTURE is used for changing the center column to display data element PICTURE information for each field.

Command	Abbreviation	Description
SHOW PICTURE	S P	Change center column heading to PICTURE and information for each field to show the data declaration.
SHOW OFFSET	S O	Change center column heading to COLUMNS and show the offset of each field relative to byte 1.
SHOW FORMAT	S F	Change center column heading to FORMAT and shows the length and format of each field.

Command	Abbreviation	Description
SHOW LEVEL	S L	Change left column heading to FIELD LEVEL/NAME and show the hierarchical level number.
SHOW NUMBER	S N	Change left column heading to FIELD NUMBER/NAME and show the system-assigned field number

---

### 13.1 Offset for Each Field - Displaying

The command SHOW OFFSET is used to change the center column to display information about the offset of each field.

Type SHOW OFFSET in the COMMAND field.

- SHOW can be abbreviated to S.
- Keyword OFFSET may be abbreviated to O.

The OFFSET primary profile command can be used to display offset information in three ways.

The valid syntax for the OFFSET - OFST command includes:

Command	Abbreviation	Description
OFFSET RELATIVE	O R	Change the center column to RELATIVE and show a decimal offset of each field relative to byte 0.
OFFSET HEX	O H	Change the center column to REL - HEX and show the offset of each field in a hexadecimal format relative to byte 0.
OFFSET COLUMNS	O C	Change the center column to COLUMNS and show the offset of each field relative to byte 1.

---

## 13.2 Current Field Length and Format - Displaying

SHOW FORMAT is used for changing the center column to display data element length and usage information for each field.

### Displaying Field Numbers

File-AID assigns a sequential field number to each layout field. These field numbers can be used in several commands to control the display and to refer to specific fields more easily.

### Type SHOW NUMBER in the COMMAND field

Specific fields can be displayed by number using the DISPLAY command.

The DISPLAY command references the File-AID assigned field numbers.

The DISPLAY primary command can be used for displaying several types of information including:

- All or selected fields of a record.
- The display format for individual layout fields.
- One or all redefinitions of the same data.

**Type DISPLAY 1 6 16 21 ONLY in the COMMAND field**

Field numbers can be separated by blanks or commas. Individual fields can be specified and field ranges established. Two fields connected by a hyphen: a b.

The abbreviation for DISPLAY is DIS.

The ON, OFF, and ONLY parameters can be placed before, after, or in any position within the field list.

In formatted mode, the set of fields that is defined with the DISPLAY command is associated with a record layout and reused each time a record is mapped to that layout. A separate set of fields can be defined for displaying each record layout if an XREF is in use.

The SHOW NUMBER command is used to tailor the display to show the field numbers.

---

## 14 DISPLAY Command

The DISPLAY command provides for the specification of the data items to display and the display format for any data item. Inclusion and exclusion of data items is controlled through the ON, OFF, ONLY and REDEFINES operands and the display format through the mode setting operands.

The OFF operand causes items to be excluded from the display and the ON operand causes previously excluded items to be displayed again. The ONLY operand specifies that only the named items be displayed. The inclusion/exclusion form of the DISPLAY command has the following format:

```

COMMAND ==> DISPLAY <field number>           ON
              DIS   <field number> <field number> OFF
              (ALL)                                ONLY

```

Fields are identified by their field numbers unique values which can be displayed by entering the SHOW NUMBER command. In VFMT mode each field number is always shown at the left of each field's heading "ruler".

Up to nine item specification operands can be entered. Each specification can be a single field number or a pair range of field numbers separated by a hyphen - (1 5). If a field number range is used it references every field from the first to last, inclusive.

Specifications are separated by a blank or a comma.

### Example:

```
DIS 1 3 5 11 15 21 45 ONLY
```

When any item is excluded with DIS n OFF, it will disappear from view. Only a gap in field numbers indicates that fields have been excluded.

Item exclusion is maintained for each 01 level layout until changed again with another DISPLAY command. DISPLAY commands only affect the currently displayed layout.

---

### 14.1 DISPLAY OFF Command

The DISPLAY OFF command can be used to hide additional fields.

Type:

```
DIS 3-6 OFF in the COMMAND field
```

### Adding Fields to the Display

A subsequent DISPLAY command only changes what is requested by the current command.

Type:

DIS 34 ON in the COMMAND field

### Redisplaying all the Fields of a Record

In order to redisplay all fields, use the DISPLAY ALL command. No field numbers are allowed with this syntax.

Type:

DIS ALL in the COMMAND field

---

## 14.2 Layout in Column Location Order - Viewing

Issue the SHOW OFFSET command to see the offset of each layout field.

1. Type SHOW OFFSET in the COMMAND field.
2. Press <Enter>.

File-AID redisplay the Formatted Selection Criteria screen.

```
File-AID --- Formatted Selection Criteria -----
COMMAND ===>                                     SCROLL ===> CSR

      SET 1 OF 1          CATEGORY-RECORD          GBL = N
---- FIELD NUMBER/NAME ----- -FORMAT- RO -----1-----2-----3-----
***** TOP OF DATA *****
1 CR-CODE                2/AN   =  DA
2 FILLER                 1/AN
3 CR-DESC                20/AN
4 FILLER                 57/AN
                        (POS 38-57)
***** BOTTOM OF DATA *****
```

### Suppressing the Display of Field Redefinitions

Issue the REDEFINES OFF command to suppress the display of field redefinitions. REDEFINES can be abbreviated REDEF. The REDEFINES profile setting command issued during selection criteria definition is temporary and does not affect the browse/edit formatted display profile setting. Most other profile setting commands will affect the browse/edit profile.

Upon initial entry to the formatted selection criteria screen, File-AID temporarily sets REDEFINES ON.



## 15 Formatted Field Selection Criteria - Defining

Records can be selectively chosen for processing by defining one or more conditions that a record must meet in order to be selected. With formatted selection criteria, records can be selected based on the value of a specified field within the record layout.

In order to search for a specific field value, a test condition must be defined for that field.

- The test condition consists of the field name, a relational operator - RO, and the value which is to be tested.
- The relational operator is entered under the RO column on the screen and can be specified in a letter or symbolic format.
- The field value is entered to the right of the relational operator. Numeric field data is always entered as a decimal value - digits 0 through 9 with a decimal point if needed.

In order to specify a search argument that contains case sensitive data, the CAPS OFF primary command needs to be entered. Multiple values can be tested in non numeric fields using the CO and EQ operators by separating the values with commas.

The REPEAT or INSERT command can be used for adding a new selection criteria set.

Sets are ORed together and only one of the test sets must be true.

Other relational operators - RO supported include:

E	Not equal
LE	Less than or equal
CO	Contains
NB	Not between

LT	Less than
GT	Greater than
NC	Not contains
VA	Valid

GE	Greater than or equal
EQ	Equal
BT	Between
NV	Not Valid

```
File-AID --- Formatted Selection Criteria -----
COMMAND ==>                                     SCROLL ==> CSR

      SET 1 OF 1          CATEGORY-RECORD          GBL = N
---- FIELD NUMBER/NAME ----- -FORMAT- RO -----+-----1-----+-----2-----+-----3-----+
***** TOP OF DATA *****
1 CR-CODE                2/AN  =  DA
2 FILLER                 1/AN
3 CR-DESC                20/AN
4 FILLER                 57/AN
                        (POS 38-57)
***** BOTTOM OF DATA *****
```

---

## 15.1 Compound AND Condition - Defining

When specifying test conditions for more than one field in a criteria set, File-AID links the tests together and requires that all the conditions be true before it selects a record. The tests are ANDed.

The REPEAT or INSERT command can be used for adding a new selection criteria set. The sets are Ored.

---

## 15.2 Unformatted Field Selection Criteria - Defining

Without using a record layout, a test condition can be defined based on the known position of a field or a data value can be scanned contained within the record.

### Example:

Select records that have area code 404, 408, or 415 in the EMP-CON-HOME-PHONE field; the column position starts at column position 189. Data can be tested for data matching any one of a list of values by separating each test value with a comma.

1. Type 189 on the first entry line under the Position column.

The Position tells File-AID where in the record to begin the search.

2. Verify that the value of the relational operator is "equal to" with either EQ or =.

The relational operator default value is EQ.

Use option 0.2 Selection Defaults in order to change the default.

3. Type 404,408,415 in the Data Value column.

File-AID interprets a comma in the search argument as an OR condition within the current set.

In order to search for a comma as data, the comma needs to be included in double quotes.

4. Type END in the COMMAND field.

FILE-AID ----- UNFORMATTED SELECTION CRITERIA ----- Row 1 of 20

COMMAND ==>

SCROLL ==> PAGE

USE END TO CONTINUE, CANCEL TO RETURN TO MAIN SCREEN.

CMD	/OR	POSITION	LENGTH	RO	DATA VALUE
	AND	1			EQ T's'
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____
	AND				EQ _____

Processing the Selection

The END primary command from the Selection Criteria Menu can be used to indicate that the temporary selection criteria have been created and reviewed and that the results are now ready to be viewed..

Before processing, the VIEW command can be used for reviewing the selection criteria.

15.3 Vertical View Format

File-AID Edit #6001.CATEGORY.DATA  
COMMAND ==> VFMT

COLUMNS 00001 00100  
SCROLL ==> PAGE

File-AID - Edit - #6001.CATEGORY.DATA ----- COLUMNS 000001 000056  
COMMAND ==> SCROLL ==> CSR

CR-CODE	FILLER	CR-DESC	FILLER
2/AN	1/AN	20/AN	57/AN
(1-2)	(3-3)	(4-23)	(24-56)
1-----	2-----	3-----	4-----

\*\*\*\*\* \*\*\*\*\* TOP OF DATA \*\*\*\*\*-CAPS ON-\*\*

000001	DA	DISABILITY CLAIMS
000002	DB	WORKER COMPENSATION
000003	DC	HOLIDAY BENEFITS
000004	RA	BROKEN BONE CLAIMS
000005	RB	FREE DVD CLAIMS
000006	RC	DISPUTED CLAIM
000007	SA	INVALID CLAIM
000008	SB	UNKNOWN CLAIM

\*\*\*\*\* \*\*\*\*\* BOTTOM OF DATA \*\*\*\*\*-CAPS ON-\*\*

---

## **16 Next Record in the Dataset - Displaying**

The UP, DOWN, BACK, or LEFT, and FORWARD or RIGHT primary commands can be used for navigating within a formatted display of a record and moving to the next or previous record.

In formatted mode, the UP and DOWN primary commands provide the capability for viewing more fields within the current record.

The BACK (alias LEFT) and FORWARD (aliases: FWD, RIGHT) primary commands scroll the display to the previous and next records, respectively.

The FORWARD - FWD command can be used for telling File-AID to scroll the display to the next record.

---

## 17 Controlling the Records Not Selected Line

When using selection criteria, records which did not match the selection criteria are indicated with an information line:

```
n RECORDS NOT SELECTED
```

The appearance of the "NOT SELECTED" information line is controlled by the 0.1 System parameter "Display records not selected line" default.

---

### 17.1 Removing the Mode Prompt Message Line

File-AID uses the last line of the display to list valid display mode primary commands.

Enter FMT for formatted mode, CHAR for character...

After becoming familiar with the basic commands - CHAR, FMT, VFMT, and HEX, the display of this message line can be displayed with the MESSAGE command.

1. Type MSG OFF in the COMMAND field.
2. Press <Enter>. File-AID redisplay the screen without the message line.