

FORTRA



Robot Easy View
8.36
User Guide

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■ **Appendix**

Notes:

■ Introduction

Easy View is one of the Robot products by Fortra that can increase programmer productivity on IBM Power Systems (System i, iSeries, AS/400) running IBM i (OS/400, i5/OS). It reduces the need for DFUs and Queries to view or change the contents of database files. Anyone who debugs programs that change database files needs Easy View. Hundreds of programmers are using it right now.

■ Displays Any Data File

Easy View can display every type of data file, including:

- Keyed and arrival sequence files.
- Logical files built over one or more physicals, including join files.
- Source files
- DDM files to display databases on remote systems.

Easy View makes it easy to check the changes a program made. Just display the file in arrival sequence and look at the last records in the file. You can see immediately whether records are being written correctly.

Hex record printouts are a pain to use. Easy View formats each record so it is easy to read. Each field can have a heading identifying it. Numeric fields are unpacked and edited. All without additional programming.

■ Ten Display Modes

Easy View offers ten ways to display records:

- Spreadsheet mode (one record per line and one field per column).
 - With field text as column headings.
 - With field names as column headings.
- EZFIELD mode (one field per line).
 - With field text as line headings.
 - With field names and field text as line headings.
 - Expanded field names and field text.
- Character mode (unformatted sequence of characters).
 - 16 records per screen.
 - 5 records per screen, with the field name marking the beginning of each field.
- Hexadecimal mode (unformatted sequence of characters and hexadecimal codes).
 - 4 records per screen.
 - 2 records per screen, with the field name marking the beginning of each field.
 - 1 record per screen, folded to show up to 240 bytes of data.

You can choose the display mode that best suits the layout of the file you are currently viewing, or navigate through different modes by pressing **F10**.

■ Display Only What You Want to See

It's irritating when the fields you want to see are 100 positions apart and you have to window back and forth to see each. With Easy View, you select the fields you want to work with and they are displayed next to each other in the order you selected. You can store these combinations as data models for later use.

■ Correct Database Errors

Easy View makes it easy to correct your database files. You can add new records, print and change existing records, and delete records. You can display the record being changed two ways:

- Horizontally, for entering characters or hexadecimal codes.
- Vertically, with each field value on a separate, labeled line.

Easy View takes care of packed fields and hexadecimal conversions for you. Fields that do not convert correctly are flagged so you can see possible decimal errors. You can even custom design your entry screen. Just pick the fields you want and you instantly have a data entry program.

■ Scan and Replace or Scan and Delete

Instead of coding a one-time, fix-it program, use Easy View to find, edit, and/or delete records that meet complex scan criteria. Easy View can scan for values, including null values, in multiple fields using relational operators and AND/OR logic. Easy View can replace a field value or null value with a specific value, the value from another field, or the results of a calculation, or it can delete the records. You can submit the operation to batch, and you can even use Easy View to fix decimal data errors.

Ever have a batch record-add program run accidentally, or run twice? Now it's easy to remove those records without programming. You can use the EZSCAN command to use a saved scan definition to scan and replace from a command line or in batch.

■ Replicate Test Data

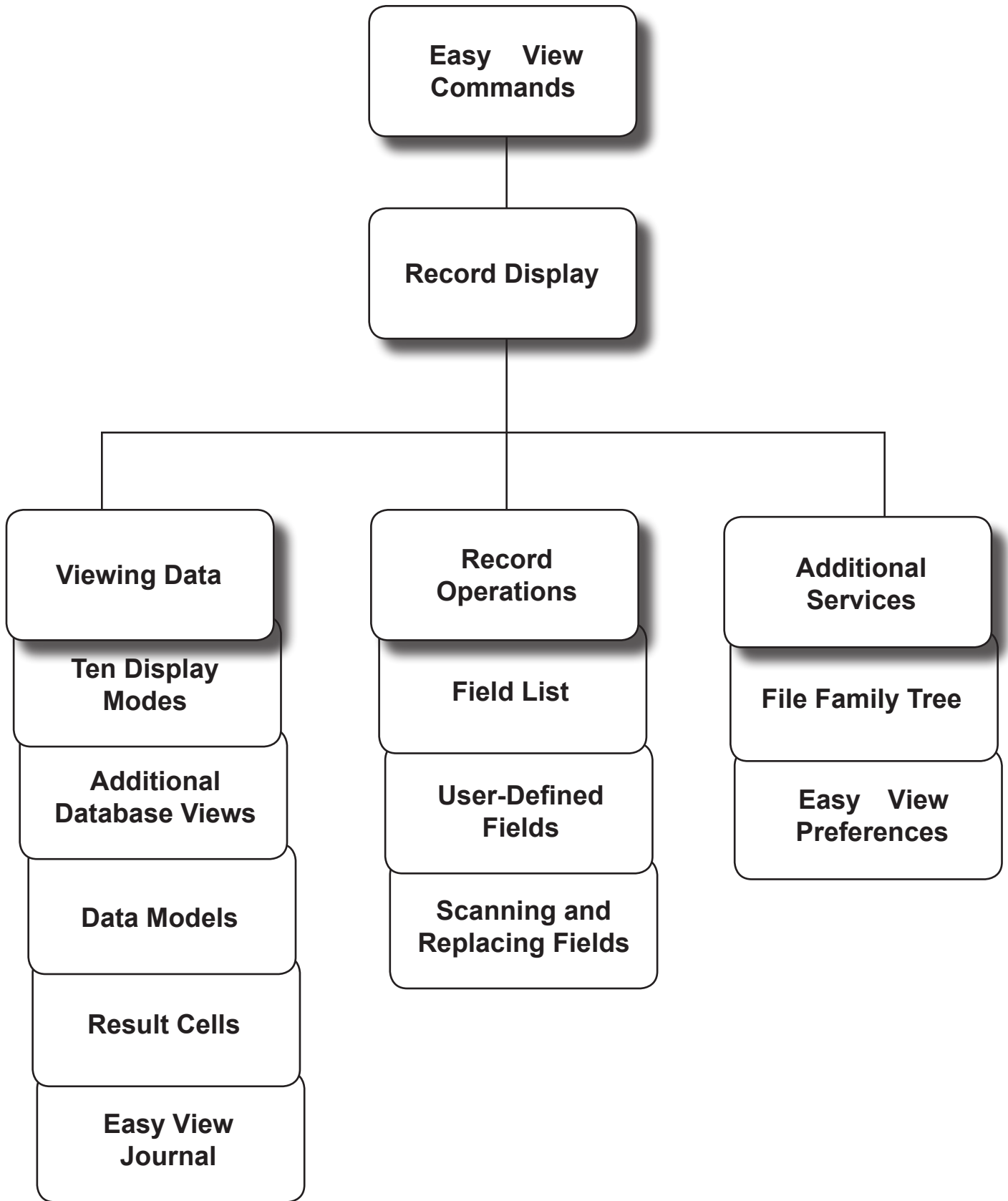
Easy View lets you create test records quickly. You can add records and replicate them, changing one or more fields to create unique data. In almost no time, you have your test file.

■ View Journal Entries

You can use the Easy View Journal feature to view entries from journaled files. It's a great investigative tool for hard-to-find update bugs. This journal feature can also be useful for recovering from a power or hardware failure—you can inspect journal entries quickly to determine where an application halted.

■ Exporting Options

You can use the Easy View export file option to convert file data into a column delimited file that is readable by any spreadsheet program. You can also export parts of a record into a new or existing file.



■ Easy View Security

You can customize Easy View to ensure the security of your database:

- Define global Easy View capabilities and capabilities for specific user profiles.
- Let your programmers look for database problems caused by their program bugs without allowing them to change the data.
- Prohibit updates to production libraries, allowing changes to test libraries only.
- Create an audit trail record of all database changes made using Easy View.

■ Easy View Overview

The diagram on the preceding page outlines the capabilities of Easy View. Each capability is described in detail later in this manual.

■ Starting Easy View

You can use many commands to start Easy View and select the file and function to work with. The following are three common commands:

- GO EZVIEW—Use this command to display the Easy View Menu with commands for the tasks you perform most often.
- EZVIEW—Use this command to work with a database file. It starts Easy View and displays the file. You can specify a file to display, or *PRV to continue the previous Easy View session. You can also display additional files without leaving Easy View.
- EZVIEW *SELECT—Use this command if you don't remember the name of the file you want to work with. It displays a panel listing the files and functions you can select.

■ Record Display

When you display a database file, you see the Easy View record display, which lists the contents of the file records. You can position the file right and left, forward and backward, and to a specific record (described in the Getting Around section). You can access almost all Easy View capabilities from the record display.

■ Formatting Data

Easy View offers several ways to change how data is presented on the record display:

- You can choose from nine display formats.
- You can use user-defined fields to split or concatenate fields on the display.
- You can use data models to choose which fields are displayed in what order.
- You can define result cells to display the results of arithmetic operations on numeric fields in the record.

You can switch between these database views without leaving Easy View.

■ Finding and Changing Data

Assuming you have authority to change the file, Easy View helps you find specific records to change. Easy View lets you add, delete, print, and replicate (copy) records. After you copy the record, you can change field values to create a new record.

■ Scanning and Replacing Values, Including Null Values

Easy View has powerful scan capability:

- You can specify one or more fields as scan fields and direct Easy View to select records whose scan fields meet your criteria.
- You can scan for and replace specific values, such as character strings, null values, or decimal data errors, using EASY VIEW's relational operators and AND/OR logic.
- You can have Easy View delete or replace a field in the records found by scanning.
- You can limit further work on the file to the set of records found by the scan.
- You can save your Scan definition to be used again as needed.
- You can use the EZSCAN command to run a saved Scan and Replace definition from your Robot Schedule job or batch program.

■ Additional Services

Easy View provides other valuable services:

- You can display and print a list of the DDS field specifications for the file.
- You can trace database relations between physical and logical files using the file family tree.
- You can tailor EASY VIEW's defaults for specific user profiles.

■ Easy View Journal

Easy View also offers a feature called Easy View Journal. You can use this feature and its powerful EZJOURNAL command (EZJRN) to create views of journal entries, display the views, and edit and use journal entries.

Quick Tour: Installing and Using Easy View

```

MAIN                               I5/OS Main Menu                System:  CVBRKING

Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. ISeries Access tasks

 90. Sign off

Selection or command
==> ezview rbahs

-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu
    
```

1. Install Easy View following the installation instructions that came with the package.
2. Add the Easy View library to your library list using the following command:

ADDLIBLE EZVIEW

3. Start Easy View, by entering the **EZVIEW** command followed by the name of the file you want to display.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN..... to -OR- *EQ
Field number: 1 field/text locate:
Record nbr.: 0000011293 US

  Date in      System Fmt  HSTIM6  Message  Pager
  -----  -
11293  2005-08-30  84834  12441  BITSTREAM MARKA  0
11294  2005-08-30  84834  12441  BITSTREAM MARKA  1
11295  2005-08-30  84834  12441  BITSTREAM MARKA  2
11296  2005-08-30  84834  12441  BITSTREAM MARKA  3
11297  2005-08-30  84834  12441  BITSTREAM MARKA  4
11298  2005-08-30  84834  12441  BITSTREAM MARKA  5
11299  2005-08-30  84834  12441  BITSTREAM MARKA  6
11300  2005-08-30  84834  12441  BITSTREAM MARKA  7
11301  2005-08-30  84834  12441  BITSTREAM MARKA  8
11302  2005-08-30  84834  12441  BITSTREAM MARKA  9
11303  2005-08-30  84834  12441  BITSTREAM MARKA 10
11304  2005-08-30  84834  12441  BITSTREAM MARKA 11
11305  2005-08-30  84834  12441  BITSTREAM MARKA 12
11306  2005-08-30  84834  12441  BITSTREAM MARKA 13
11307  2005-08-30  84834  12441  BITSTREAM MARKA 14
11308  2005-08-30  84835  12441  BITSTREAM MARKA 15

Keyed access not allowed for requested file.
    
```

Easy View displays the file records using your display mode. The default display mode is spreadsheet mode, which you can change.

4. Press **F4** to display a window listing the display modes. You select a mode by entering its number.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN..... to -OR- *EQ
Field number: 1 field/text locate:
Record nbr.: 0000011293 US

  Date in      System Fmt  HSTIM6  Message  Pager
  -----  -
11293  2005-08-30  84834  12441  BITSTREAM MARKA  0
11294  2005-08-30  84834  12441  BITSTREAM MARKA  1
11295  2005-08-30  84834  441    BITSTREAM MARKA  2
11296  Valid Options : 441    BITSTREAM MARKA  3
11297  Valid Options : 441    BITSTREAM MARKA  4
11298  C = Change record : 441    BITSTREAM MARKA  5
11299  D or 4 = Delete record : 441    BITSTREAM MARKA  6
11300  R = Replicate record : 441    BITSTREAM MARKA  7
11301  E = Display record : 441    BITSTREAM MARKA  8
11302  P = Print this record : 441    BITSTREAM MARKA  9
11303  S = Save Record Image : 441    BITSTREAM MARKA 10
11304  X = Write Record Image : 441    BITSTREAM MARKA 11
11305  Valid Options : 441    BITSTREAM MARKA 12
11306  Desired option: _ : 441    BITSTREAM MARKA 13
11307  Valid Options : 441    BITSTREAM MARKA 14
11308  2005-08-30  84835  12441  BITSTREAM MARKA 15

F2=Previous Files  F3=Exit          F4=Select Mode      F24=More Keys
    
```

5. To add a record, press **F6**. Or, to see the available option codes, enter a **?** in the option field before a record and press Enter. The window shows options to change, delete, or replicate the record, display it in EZFIELD mode, or print its image.
6. To remove the Valid Options window without doing a record operation, press **F3**.

```

EUI80R                               File Field Reference                   CVBRKINC
                                     7/18/07 14:55:24
File: RBAHS          Lib: JRICHARDS

Type Options, Press Enter.           Text Search: _____
U=Add to Temporary View

Name      Keys      Typ Len Dec From    To    Colhdg or Text
-----
FORMAT:  HSFMT
HSDATE   L   10      1    10  Date in SystemFmt
HSTIM6   P   6  0     11  14  HSTIM6
HSMNUM   P   9  0     15  19  Message No.
HSUEND   A  18      0     20  29  Pager Service Vendor Name
HSTDPG   A  18      0     30  39  Pager Name
HSLSEQ   P   5  0     40  42  Log Sequence Number
HSLTVP   A   1      0     43  43  Log Type
HSMJMH   A   4      0     44  47  Major/Minor Return Code
HSLGTH   P   3  0     48  49  Length of Data Logged
HSLTX   A  256     0     50  305  Message Text Field
HSYMD   L   0      0     306  313  HSYMD
HSMDOP   A   1      0     314  314  Mode of Operation
HSCJOB  A  10      0     315  324  Comm Job Name
F3=Exit  F6=User define  F9=Print listing  F21=Command line  F24=More keys
    
```

- To see a list of the DDS fields in the file, press **F5**.
- On the File Field Reference panel, you can superimpose your own field definitions on the file. Press **F6** to define one or more fields. You also can define a temporary data model to limit the fields displayed. Just enter a **V** before each field to be shown. Then, press Enter to return to the record display.
- On the record display, you see the ***Data Model*** indicator. The fields shown are those you selected with **V** on the File Field Reference panel. To return to the record display and keep the temporary view, press **F5** and **F12**.

```

Rec. Length: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count:  165273 Access: *PARTRIAL Mode: INQUIRY
SCAN:       to -OR- *EQ
Field number: 1 field/text locate:
Record nbr: 0000011293 US
*TEMP UIEW*
 HSTIM6  Pager Name
11293   - 04834  MARKA
11294   - 04834  MARKA
11295   - 04834  MARKA
11296   - 04834  MARKA
11297   - 04834  MARKA
11298   - 04834  MARKA
11299   - 04834  MARKA
11300   - 04834  MARKA
11301   - 04834  MARKA
11302   - 04834  MARKA
11303   - 04834  MARKA
11304   - 04834  MARKA
11305   - 04834  MARKA
11306   - 04834  MARKA
11307   - 04834  MARKA
11308   - 04835  MARKA
F2=Previous Files  F3=Exit  F4=Select Mode  F24=More Keys
    
```

The temporary data model remains in effect until you switch to another model, press **F3** on the File Field Reference panel, or exit the session.

```

EU320R                               Extended Scan Parameters               CVBRKINC
                                     7/18/07 14:57:12
Display Conditions:
Occurrence to Display/Change: 1 (1=Next; 2=All)
Number of Records to Read: 1500
Process as Subset: N
Print Selected Record (Y/N): N
Scan Options,
A=And D=Or R=Replace D=Delete
Option Field Name From Thru Operand Scan Data
A HFATH2      *EQ 0
0 HFATH2      *EQ 0
-
-
-
-
-
-
-
-
-
-
-
-
F3=Exit  F9=Retrieve Scan  F21=Command Line  F24=More Keys
    
```

- You can scan from the record display using a single scan field. To scan using multiple scan fields, press **F14** to display the Extended Scan Parameters panel. Enter the scan criteria and press **F7** to scan forward, or **F8** to scan backward.
- To return to the record display, press **F3**.

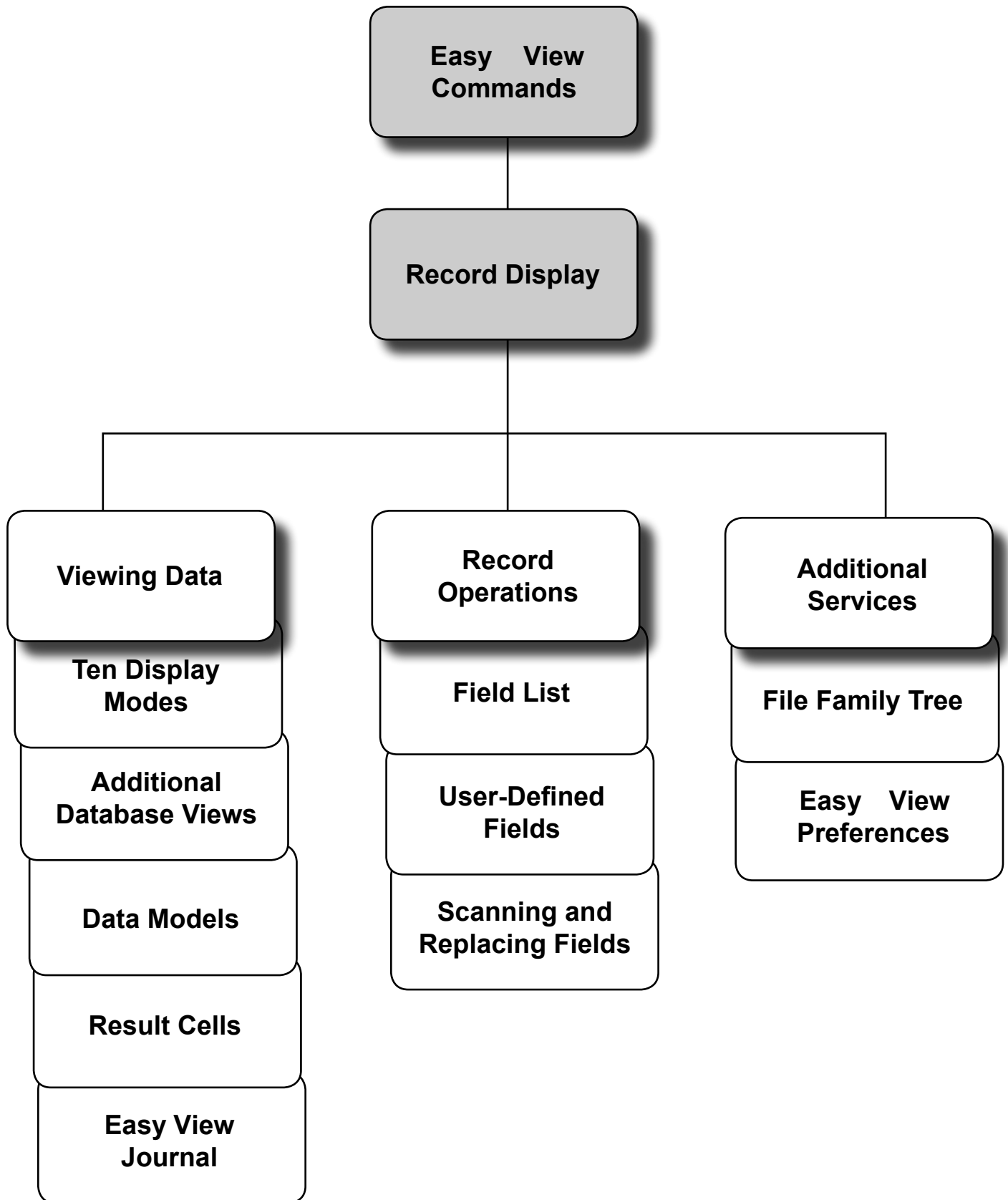
```

Rec. Length: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count:  165273 Access: *PARTRIAL Mode: INQUIRY
SCAN:       to -OR- *EQ
Field number:
Record nbr: 000      R08H000000000
                   Additional Services
11293   - 20:  1. Family Tree.           : 0
11294   - 20:  2. Display Field List.    : 1
11295   - 20:  3. Print Field List.      : 2
11296   - 20:  4. Display Current Locks for File. : 3
11297   - 20:  5. Display Authority for File. : 4
11298   - 20:  6. Change Tailoring for Current User. : 5
11299   - 20:  7. Retrieve File Descriptions. : 6
11300   - 20:  8. Maintain/Create Composite Models. : 7
11301   - 20:  9. Display Object Description. : 8
11302   - 20: 10. Export to Delimited Text File. : 9
11303   - 20: : 10
11304   - 20: Select Desired Option: : 11
11305   - 20: : 12
11306   - 20: F3=Exit : 13
11307   - 20: : 14
11308   - 20: : 15
Keyed access not allowed for requested file.
    
```

- Easy View offers more services from its Additional Services Menu. Press **F9** to see the menu and select an option by entering its number.

This quick tour has shown you some of EASY VIEW's capabilities. These capabilities and others are described in detail in the rest of this manual.

Notes:



Using Easy View

To display the EZVIEW menu, add the EZVIEW library to your library list and use the GO EZVIEW command. The default EZVIEW menu shows the most commonly used Easy View commands. You can change the options on this menu by editing the EZVMENU file in the EZVIEW library.

- To start Easy View and work with a database file, add the EZVIEW library to your library list and enter the command EZVIEW on any command entry line. If you add a filename after the command, you see the record display for the file. If you do not add a filename after the command, the Easy View a File (EZVIEW) panel displays, shown on the following page.
- To display the Select Files for Easy View panel, use the command EZVIEW *SELECT. Use this panel to select the file and Easy View function you want to work with. See the section, Select Files for Easy View Panel.

```
EZVIEW                      EZVIEW Menu

Select one of the following:

  Commands
  1. Work with Data Base File           EZVIEW
  2. Display File Layout                EZFIELD
  3. Display File Relationships          EZTREE
  4. Work with Data Base File via MODEL EZVIEWMOD
  5. Display Journal Entries using EZVIEW EZVIEWJRN
  6. Print Audit File                   PRTAUDIT
  7. Start Ezview Journal/maintain saved scans EZJOURNAL

  Other EZVIEW related Commands
  8. EZVIEW Setup and Initialization    EZSETUP

Selection or command
===> _____

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel
F13=Information Assistant   F16=System main menu
```

Type 1 and press Enter to prompt the EZVIEW command.

Enter these commands on the IBM i command line to use the corresponding function. Each command on this menu is discussed in detail later in this manual.

Easy View a File (EZVIEW) Panel

The Easy View a File panel displays when you enter the EZVIEW command without a filename, or select **option 1** from the Easy View menu. You must identify the name of the file you want to display. You can specify ***PRV** to continue the previous Easy View session, or type ***SELECT** to display a list of files to choose from. You can specify the file member and access method. Press Enter to display the Starting Key parameter, where you can specify the first record you want to display. Press Enter again to see the record display for the file.

Enter the name of the file to be displayed, enter ***PRV** to continue the previous Easy View session, or enter ***SELECT** to generate a file list to choose from.

Enter the name of the library containing the file. The default is ***LIBL**, the current library list.

Enter the member to be displayed. The default is the first member. ***ALL** displays all members.

```

Easy View a File (EZVIEW)

Type choices, press Enter.

File Name: . . . . . rbahs      Name, *PRV, *SELECT
Library Name: . . . . . jrichards  Name, *LIBL
Member Name: . . . . .           Character value
Access Method . . . . . *KEY      *KEY, *ARRIVAL
Starting Key . . . . .           _____

-----

Additional Parameters

Initial Display Mode . . . . . *USRDFI  *USRDFI, 1, 2, 3, 4, 5, 6...
RRN, Format, Member . . . . . *USRDFI  *USRDFI, *RRN, *FORMAT...
Upper or Lower Case . . . . . *USRDFI  *USRDFI, *UPPER, *LOWER

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

F10 displays the additional parameters, which allow you to change the way the record displays.

Enter the record access path: ***KEY** for key value order, ***ARRIVAL** for record number order. The default is ***KEY** if the file is keyed.

Press Enter or **F10** to display this parameter. If the access method is ***KEY**, you can enter the key value of the first record to be displayed. If the access method is ***ARRIVAL**, you can enter the number of the first record to be displayed.

Select Files for EZVIEW Panel

The Select Files for EZVIEW panel displays when you request a file list by using the EZVIEW *SELECT command or by entering *SELECT in the File Name field of the Easy View a File panel. To select a file, enter an option in the blank before it. Easy View allows you to view only files you are authorized to view.

Enter the name of the library whose files are to be listed, or one of the following names:

- *ALL** All libraries on the system.
- *USRLIBL** All libraries in the user library list for this session.
- *SYSLIBL** All libraries in the system portion of the library list for this session.
- *LIBL** All libraries in the library list for this session.

Enter the full or partial name of the first file to display or enter a generic name restricting the list of files. For example, if you enter the generic name RBT*, only file names beginning with the letters RBT are listed.

```
EU290R          Select Files for EZVIEW          CVBRKING
                                           8/01/07 15:12:23
Restrict to library: *LIBL      name, *ALL, *USRLIBL, *SYSLIBL, *LIBL
Position to file . . *ALL      partial/full name, generic*

Type options, press Enter.
  1=EZVIEW  2=E2TREE  3=E2FIELD  4=Member List  5=DSPFD (file description)

Lib/File          Type Text
- QGPL/CPASAC     P Robot/CPA 4.0 Source file
EZVIEW/CREATE     P For creating source members
EZVIEW/CULFLDSB  L FILE/LIB/FORMAT/BUFFER view of cupflds
EZVIEW/CULKEYSA  L Logical veiw for PF0SPFD.
EZVIEW/CULKEYSB  L Logical veiw for cupkeys
EZVIEW/CUPFD     P Outfile for DSPFD TYPE(*ACCPH)
EZVIEW/CUPFFD   P Outfile for DSPFFD
EZVIEW/CUPFLDS  P Outfile for DSPFFD
EZVIEW/CUPHELP  P Help text file
EZVIEW/CUPKCTL  P Key Fields Control Data Structure
EZVIEW/CUPKDDS  P Key Fields Information Data Structure
EZVIEW/CUPKEYS  P Outfile for DSPFD TYPE(*ACCPH)
EZVIEW/CUPUSER  P User default file.
- QGPL/DAUNSAUF  P
F3=Exit  F12=Previous
```

Enter the Easy View option you want to perform on the file:

- 1 View the file records.
- 2 Display the data base relations.
- 3 Display the field listing.
- 4 List the file members.
- 5 Display the file description.

File type:

P = physical

L = logical

A plus sign (+) indicates that there are more files to select from. Press the Page Down key to view more files.

Easy View Record Display

After you specify the file you want to view, Easy View displays the records in the file. You can change the file or member displayed using the File and Member fields. (You also can display additional files as described in the section, Additional Database Views.)

Name of the file displayed.
You can display another file by typing its name here.
Enter a ? or a generic name to see the file selection panel.

Name of the library containing the file.

Name of the file member displayed.
You can display another member by entering its name, enter a ? to display a list of members from which you can select, or enter ***ALL** to display all members.

```

Rec. Length.: 334 File: RBABS Library: JRICHARDS Member: RBABS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: ___ to ___ -OR- ___ *EQ ___
Field number: 1 field/text locate: ___
Record nbr... 00000011293 US

```

	Date in System Fmt	HSTIM6	Message No.	Pager Service Use	Pager Name	HSLSEQ
11293	2005-08-30	84834	12441	BITSTREAM	MARKA	0
11294	2005-08-30	84834	12441	BITSTREAM	MARKA	1
11295	2005-08-30	84834	12441	BITSTREAM	MARKA	2
11296	2005-08-30	84834	12441	BITSTREAM	MARKA	3
11297	2005-08-30	84834	12441	BITSTREAM	MARKA	4
11298	2005-08-30	84834	12441	BITSTREAM	MARKA	5
11299	2005-08-30	84834	12441	BITSTREAM	MARKA	6
11300	2005-08-30	84834	12441	BITSTREAM	MARKA	7
11301	2005-08-30	84834	12441	BITSTREAM	MARKA	8
11302	2005-08-30	84834	12441	BITSTREAM	MARKA	9
11303	2005-08-30	84834	12441	BITSTREAM	MARKA	10
11304	2005-08-30	84834	12441	BITSTREAM	MARKA	11
11305	2005-08-30	84834	12441	BITSTREAM	MARKA	12
11306	2005-08-30	84834	12441	BITSTREAM	MARKA	13
11307	2005-08-30	84834	12441	BITSTREAM	MARKA	14
11308	2005-08-30	84835	12441	BITSTREAM	MARKA	15

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys

Press **F3** to exit the view.

To position the display at a field, enter a full or partial field name, text, or column heading. Or, enter ? to display the File Field Reference panel, which shows you a list of the fields in the file.

Easy View Heading Fields

In addition to the File, Library, and Member fields, the record display heading also contains the Record Length, Record Count, Access, and Mode fields (described below).

Indicates whether the records are displayed in key value order (***KEY**) or in record number order (***ARRIVAL**). You can change this on the Display Attributes window (**F13**).

Indicates the current Easy View mode:

- INQUIRY** Normal display mode.
- SUBSET** File subset shown.
- ADD** Record being added.
- CHANGE** Record being changed.
- DELETE** Record deletion pending.
- REPLICATE** Record replication pending.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 00000011293 US

```

	Date in	System Fmt	HSTIM6	Message No.	Pager Service Use	Pager Name	HSLSEQ
11293	2005-08-30	84834		12441	BITSTREAM	MARKA	0
11294	2005-08-30	84834		12441	BITSTREAM	MARKA	1
11295	2005-08-30	84834		12441	BITSTREAM	MARKA	2
11296	2005-08-30	84834		12441	BITSTREAM	MARKA	3
11297	2005-08-30	84834		12441	BITSTREAM	MARKA	4
11298	2005-08-30	84834		12441	BITSTREAM	MARKA	5
11299	2005-08-30	84834		12441	BITSTREAM	MARKA	6
11300	2005-08-30	84834		12441	BITSTREAM	MARKA	7
11301	2005-08-30	84834		12441	BITSTREAM	MARKA	8
11302	2005-08-30	84834		12441	BITSTREAM	MARKA	9
11303	2005-08-30	84834		12441	BITSTREAM	MARKA	10
11304	2005-08-30	84834		12441	BITSTREAM	MARKA	11
11305	2005-08-30	84834		12441	BITSTREAM	MARKA	12
11306	2005-08-30	84834		12441	BITSTREAM	MARKA	13
11307	2005-08-30	84834		12441	BITSTREAM	MARKA	14
11308	2005-08-30	84835		12441	BITSTREAM	MARKA	15

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys

Number of bytes in the longest record format in the file.

Number of records in the file. This figure is updated each time the screen is refreshed.

Easy View Function Keys and Help Text

The bottom line on each Easy View panel shows function key prompts. If the function key prompts do not fit on the panel, **F24** displays, which you can use to see other prompts. All allowable function keys are effective even when their prompt is not displayed.

To learn more about an area on the display, position the cursor on the area and press the Help key or **F1**. To get help for a function key, press the Help key followed by the function key. To remove the help text window, press Enter.

This help text window was displayed by positioning the cursor on the Record nbr field and pressing the Help key (**F1**).

Rec. Length.: 334 File: BAHS Library: JRICHARDS Member: BAHS
 Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
 SCAN.....: ___ to ___ -OR- ___ *EQ ___
 Field number: 1 field/text locate: _____
 Record nbr.: 00000011293 US

LOWER LIMITS OR RECORD NUMBER

In KEY mode, this displays the key information of the first record shown on the screen. A full or partial key can be keyed in here to display the file starting with the key that is greater than or equal to the Lower Limits. Multiple keys are concatenated into one string for purposes of determining lower limits. You may also use F11 to get a screen with multiple keys separated.

Notes: Packed & Binary keys are automatically translated. The maximum displayed key length is 60. Date fields are supported.

In ARRIVAL mode, this field is the relative record number of the first record on the screen. Key any valid record number to move about in the file.

11307	_	2005-08-30	84834	12441	BITSTREAM	MARKA	14
11308	_	2005-08-30	84835	12441	BITSTREAM	MARKA	15

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys

F5=Field List F6=Add Record F7=Scan Forward

F8=Scan Backwards F9=Services F10=Toggle View

F13=Display Attr F14=Extended Scan F18=More E2VIEWS

F19=Shift Left F20=Shift Right F21=Command Line

F23=Set Export F24=More Keys

Press **F24** to display additional function key options.

Previously Viewed Files

To display a list of files you worked with recently, press **F2**. You can select a file from the list by typing a **1** in front of it and pressing Enter. The list remains after you sign off.

```
Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Record nbr.: 00000011293 US
```

Previously Viewed Files				ice	Ue	Pager Name	HSLSEQ
11293	-			:	TREAM	MARKA	0
11294	-	Options: 1=Select File		:	TREAM	MARKA	1
11295	-			:	TREAM	MARKA	2
11296	-	File:	Library	:	TREAM	MARKA	3
11297	-	RBAHS	JRICHARDS	:	TREAM	MARKA	4
11298	-	*ITPHONE	QGPL	:	TREAM	MARKA	5
11299	-	RBAHS	JRICHARDS	:	TREAM	MARKA	6
11300	-	EUPAUDT	EZVIEW	:	TREAM	MARKA	7
11301	-			:	TREAM	MARKA	8
11302	-			:	TREAM	MARKA	9
11303	-			:	TREAM	MARKA	10
11304	-			:	TREAM	MARKA	11
11305	-			:	TREAM	MARKA	12
11306	-			:	TREAM	MARKA	13
11307	-	F3=Exit	F12=Previous	:	TREAM	MARKA	14
11308	-			:	TREAM	MARKA	15

F2=Previous F : Mode F24=More Keys

Select a file by typing a **1** in front of it and pressing Enter.

Command Line

You can enter system commands without leaving EasyView. Press **F21** to display a command line.

The ability to display the command line is controlled by an Easy View default value. You can change the default value by using the CHGSYS command (see the section, Easy View Preferences).

```
Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 00000011293 US
```

	Date in	System Fmt	HSTIM6	Message No.	Pager Service Ue	Pager Name	HSLSEQ
11293	-	2005-08-30	84834	12441	BITSTREAM	MARKA	0
11294	-	2005-08-30	84834	12441	BITSTREAM	MARKA	1
11295	-	2005-08-30	84834	12441	BITSTREAM	MARKA	2
11296	-	2005-08-30	84834	12441	BITSTREAM	MARKA	3
11297	-	2005-08-30	84834	12441	BITSTREAM	MARKA	4
11298	-	2005-08-30	84834	12441	BITSTREAM	MARKA	5
11299	-	2005-08-30	84834	12441	BITSTREAM	MARKA	6
11300	-	2005-08-30	84834	12441	BITSTREAM	MARKA	7
11301	-	2005-08-30	84834	12441	BITSTREAM	MARKA	8
11302	-	2005-08-30	84834	12441	BITSTREAM	MARKA	9

.....

Command

====>

F4=Prompt F9=Retrieve F12=Cancel

Type a command and press **F4** to display the prompt screen for the command.

Press **F9** to retrieve the last command entered on the line.

Press **F12** to remove the command line. Any command left on the command line is ignored.

Display Attributes

To change display attributes, press **F13** to see the Easy View Display Attributes window. Press Enter after making your changes to remove the window.

Use the Uppercase Only field to specify the case for data to be entered:

- Specify **Y** to enter data in uppercase only (caps locked).
- Specify **N** to enter data in both uppercase and lowercase. You can change the default (see the section, Easy View Preferences).

Enter **A** to display the records in record number order; enter **K** to display records in key value order.

US indicates upper shift entry only; **LS** indicates lower shift entry also.

```

Rec. Length.: 334 File: BBAHS Library: JRICHARDS Member: BBAHS
Rec. Count.: ..... e.: INQTRY
SCAN.....: EZVIEW Display Attributes
Field number: ..
Record nbr... 0 : Uppercase Only Y/N.....: Y US
: File Sequence.....: A me HSLSEQ
11293 - : A=Arrival : 0
11294 - : K=Keyed : 1
11295 - : : 2
11296 - : Model (? for List).....: 3
11297 - : : 4
11298 - : Record Data.....: N : 5
11299 - : F=Display Record Format : 6
11300 - : N=Display Record Number : 7
11301 - : M=Member Name : 8
11302 - : : 9
11303 - : Roll Key Behavior.....: B : 10
11304 - : R=Scroll Records : 11
11305 - : F=Scroll Fields : 12
11306 - : : 13
11307 - : F3=Exit : 14
11308 - : : 15
F2=Previous Fil ..... F24=More Keys
    
```

To change the data model used, enter its name or enter a ? to see a list of models for the file.

Selects the behavior for roll keys when viewing files that do not fit on one page.

- R** The roll keys scroll through records and function keys 19 and 20 scroll through fields within a record (default).
- F** The roll keys scroll through fields within a record and function keys 19 and 20 scroll through records.

Selects the record information displayed. The default can be changed (see the section, Easy View Preferences).

- F** Record format name.
- N** Record number.
- M** File member name. Use M when displaying all members to avoid changing the wrong member.

Positioning the File by Relative Record Number

If the records are shown in arrival sequence, you can position the file by relative record number. To display a keyed file in arrival sequence, press **F13** to see the Display Attributes window and enter **A** for the File Sequence option. Any gaps in the record number sequence are for records that have been deleted. To position the file at a record, enter its record number in the Record nbr field.

Enter the relative record number of the first record to be displayed.

Indicates that records are displayed in arrival sequence.

```

Rec. Length.: 334 File: BBAHS Library: JRICHARDS Member: BBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: ___ to ___ -OR- *EQ
Field number: 1 field/text locate:
Record nbr.: 0000011293 US

```

	Date in	System Fmt	HSTIM6	Message No.	Pager Service Vendor	Pager Name	HSLSEQ
11293	E	2005-08-30	84834	12441	BITSTREAM	MARKA	0
11294	-	2005-08-30	84834	12441	BITSTREAM	MARKA	1
11295	-	2005-08-30	84834	12441	BITSTREAM	MARKA	2
11296	-	2005-08-30	84834	12441	BITSTREAM	MARKA	3
11297	-	2005-08-30	84834	12441	BITSTREAM	MARKA	4
11298	-	2005-08-30	84834	12441	BITSTREAM	MARKA	5
11299	-	2005-08-30	84834	12441	BITSTREAM	MARKA	6
11300	-	2005-08-30	84834	12441	BITSTREAM	MARKA	7
11301	-	2005-08-30	84834	12441	BITSTREAM	MARKA	8
11302	-	2005-08-30	84834	12441	BITSTREAM	MARKA	9
11303	-	2005-08-30	84834	12441	BITSTREAM	MARKA	10
11304	-	2005-08-30	84834	12441	BITSTREAM	MARKA	11
11305	-	2005-08-30	84834	12441	BITSTREAM	MARKA	12
11306	-	2005-08-30	84834	12441	BITSTREAM	MARKA	13
11307	-	2005-08-30	84834	12441	BITSTREAM	MARKA	14
11308	-	2005-08-30	84835	12441	BITSTREAM	MARKA	15

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys

A record selected by an **E** on the spreadsheet format is displayed in EZFIELD format with its relative record number in the RRN field.

- The RRN field cannot be changed.
- The maximum field length that can be shown in EZFIELD format is 120 bytes.

```

Rec. Length.: 334 File: BBAHS Library: JRICHARDS Member: BBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
Format.....: HSFMT
RRN.....: 11293

```

Date in System Fmt.....:	2005-08-30
HSTIM6.....:	84834
Message No.....:	12441
Pager Service Vendor Name:	BITSTREAM
Pager Name.....:	MARKA
Log Sequence Number.....:	0
Log Type.....:	M
Major/Minor Return Code..:	
Length of Data Logged...:	0
Message Text Field.....:	Connected to host SMTP.VISI.COM.
<hr/>	
HSYMD.....:	05/08/30
Mode of Operation.....:	M
Comm Job Name.....:	RBAC02T
Comm Request ID.....:	30148

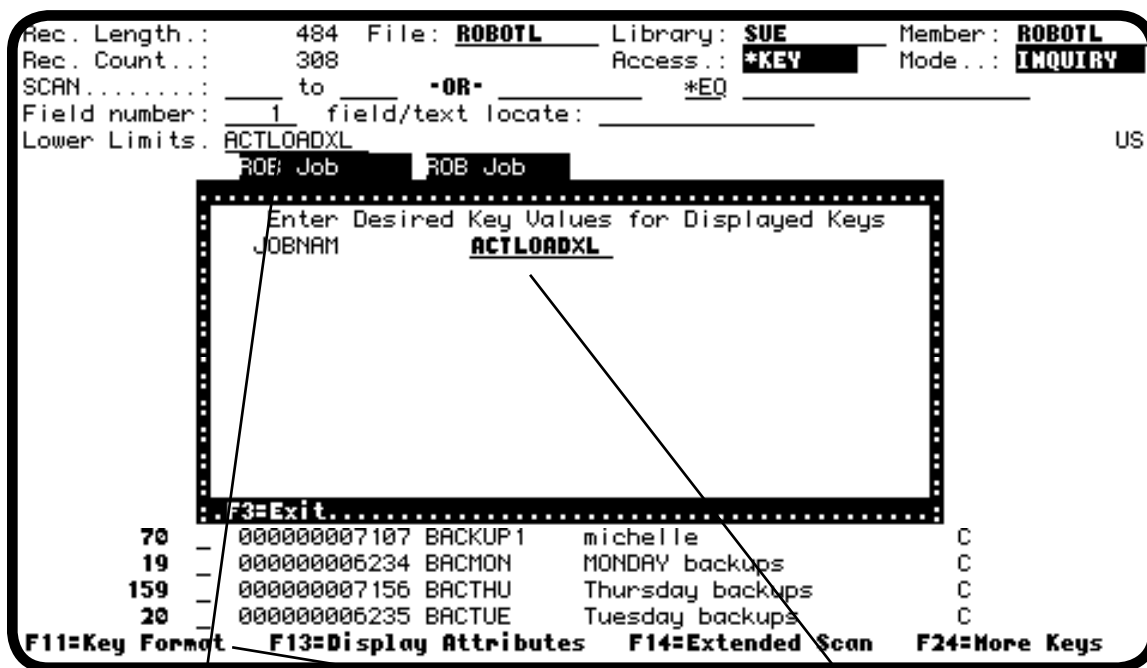
F3=Exit F11=Toggle View F12=Previous F21=Command Line More...

Positioning the File by Key Value

On a key sequence display, you can change the file position by entering the key value of the first record to be displayed. Easy View displays a keyed file, by default, in key value order. The full concatenated key value of the first record displayed is shown in the Lower Limits field. Packed and binary key values are automatically translated. The maximum displayed key length is 60.

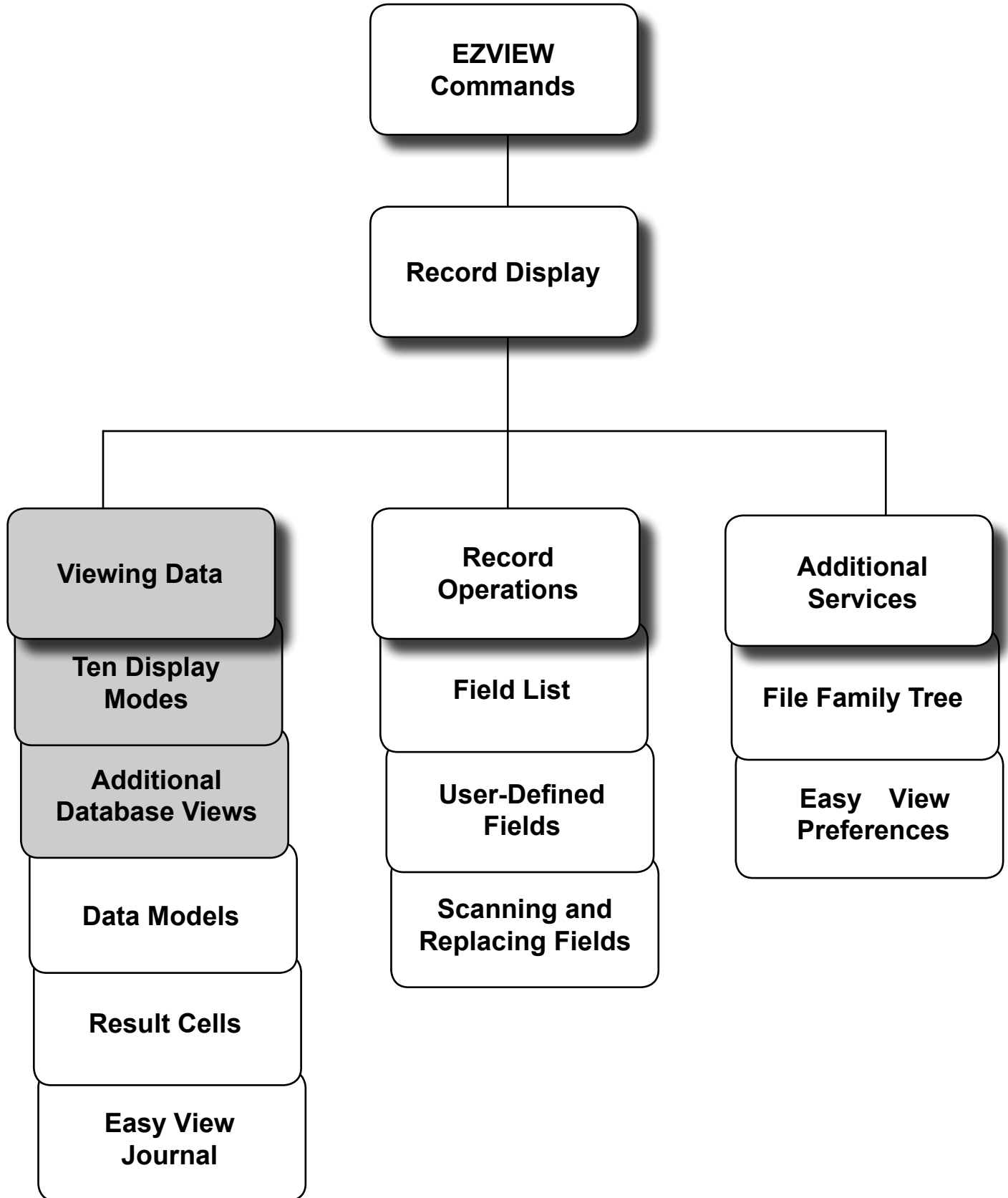
You can change the first record displayed by entering a full or partial key value in the Lower Limits field. Or, you can press **F11** to display a window listing each of the key values for the first record displayed. The key values in the window can total up to 99 bytes. To position to the record with the lowest key value, blank out the Lower Limits field. To position to the record with the highest key value, enter 9s in the Lower Limits field.

You can change any of the key values in the window. Easy View displays the file starting with the key value greater than or equal to the entered value.



Enter a full or partial concatenated key value for the first record to be displayed.

Press **F11** to see the individual key values for the first record displayed. Enter one or more key values to change the file position.



■ Ten Display Modes

Easy View provides ten different display modes or formats for viewing your file records, each display mode having particular features described here.

■ Spreadsheet Mode

Spreadsheet mode formats the data so that each field is in a separate column and each record is on a separate line. Each column has a heading, either the field text or the field name. Numeric fields are formatted to present their numeric value.

Spreadsheet mode cannot display multiple record formats that require different column widths. (If the formats can use the same column layout, you can use spreadsheet mode.) Spreadsheet mode shows you only the first 60 characters of a field (the display width is 60 characters. When you shift the display, it moves to the next field boundary). To see the rest of a field, use a different display mode.

■ EZFIELD Mode

In spreadsheet mode, you can select an individual record for display in EZFIELD mode.

EZFIELD mode also formats the data like spreadsheet mode, but presents only one record on the screen at a time. Each field of the record displays on a separate line, preceded by either its field text or field name and field text. The maximum field length shown is 512 bytes. Numeric values are translated.

EZFIELD mode can be used for files with multiple record formats.

■ Character Mode

Character mode displays the record as an unformatted sequence of characters. This mode is especially useful when working with fixed positions in the record or working with files that have no DDS.

Of all the display modes, character mode can display the most data on a screen at one time—16 records, one per line. A ruler above the data marks the character positions. Numbers below the ruler mark the key fields and indicate their sequence. In addition, you can display field names vertically to mark the beginning of each field in the record. (With field names displayed, only eight records can fit on the screen.)

■ Hexadecimal Mode

Hexadecimal mode displays the record as an unformatted sequence of characters and hexadecimal codes. The first digit of the hexadecimal code represents the first four bits of the byte; the second digit represents the second four bits. Thus, you can change positions at the bit level. You can also change control codes, and packed and binary fields.

In hexadecimal mode you can display four records at a time, with a ruler above the data. Or, you can display the field names vertically to mark the beginning of each field in the record, with two records on the screen. Or, you can display a single record, folded to display up to 240 bytes at a time.

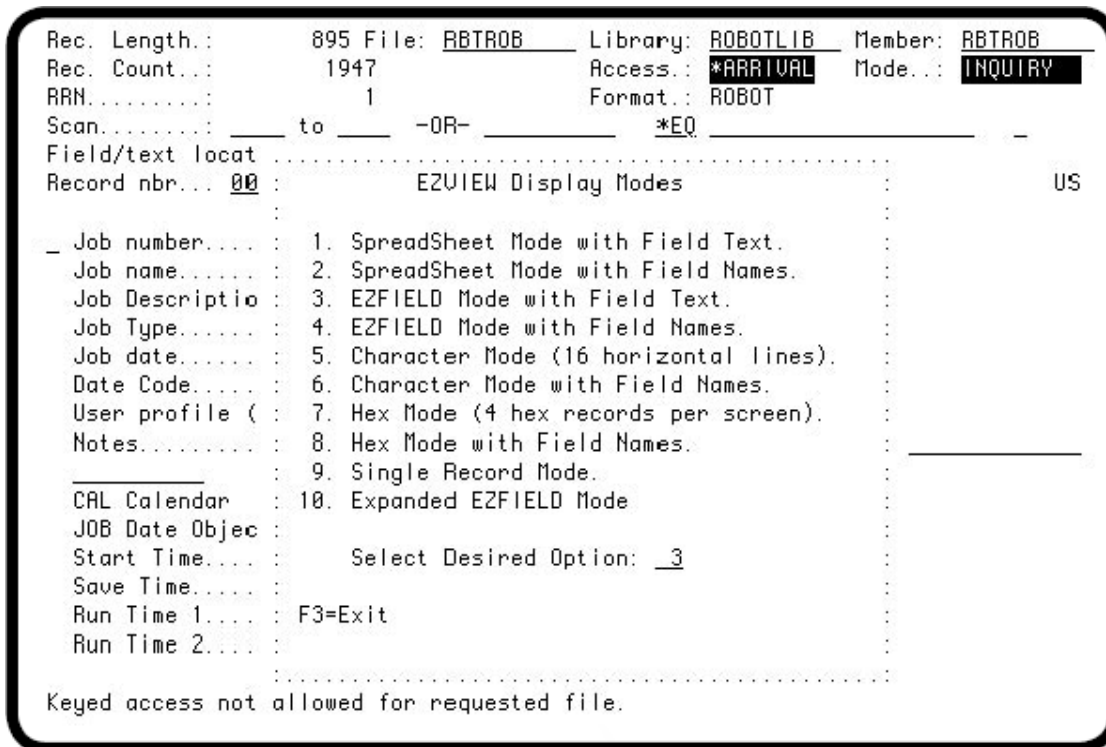
Display Modes Window

Easy View offers ten record display modes. The spreadsheet and EZFIELD modes separate and format the record fields for you. Other modes present the record data as an unformatted sequence of characters and/or hexadecimal codes.

The default display mode is spreadsheet mode with field text. When multiple record formats cannot be displayed in spreadsheet mode, Easy View switches to EZFIELD display mode, automatically. To change your default display mode, see Easy View Preferences.

To switch display modes, press **F10** until you reach the display mode you would like to use.

To view all the display modes available for a given file, press **F4**. Select a display mode by entering its number.



Press **F4** to view and change display modes for a file.

Spreadsheet Mode with Field Text

Spreadsheet mode displays one record per line, with each record field in a separate column. Option 1 uses the field text as the column heading if that is possible in the space available. Otherwise, it uses the field name. Easy View uses the most meaningful fit possible based on the width of the column. Packed, binary, and zoned fields are formatted for you. Spreadsheet mode cannot show multiple record formats that require different column layouts.

F19 and **F20** shift the display left and right on field boundaries, so only the first 60 characters of a field can be shown. Spreadsheet mode offers two more methods for moving the display:

- To position a specific field at the left of the display, enter its number in the Field number field (fields are numbered consecutively from left to right)
- Enter all or any part of the column heading (the field name or field text) in the field/text locate field.

```

EZVIEW Display Modes

1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 01

F3=Exit
    
```

Enter 1 to select spreadsheet mode with field text headings.

Number of the first field displayed. To move the display right or left, enter a field number here.

```

Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Lower Limits: 07/05/29142429966000 US
    
```

	Date in	System Fmt	HSTIM6	Message No.	Pager Service Use	Pager Name	HSLSEQ
186846	2007-05-29	142429		34473	HERMES	ARMAND	20
186845	2007-05-29	142429		34473	HERMES	ARMAND	19
186844	2007-05-29	142429		34473	HERMES	ARMAND	18
186843	2007-05-29	142429		34473	HERMES	ARMAND	17
186842	2007-05-29	142428		34473	HERMES	ARMAND	16
186841	2007-05-29	142428		34473	HERMES	ARMAND	15
186840	2007-05-29	142428		34473	HERMES	ARMAND	14
186839	2007-05-29	142427		34473	HERMES	ARMAND	13
186838	2007-05-29	142427		34473	HERMES	ARMAND	12
186837	2007-05-29	142427		34473	HERMES	ARMAND	11
186836	2007-05-29	142427		34473	HERMES	ARMAND	10
186835	2007-05-29	142427		34473	HERMES	ARMAND	9
186834	2007-05-29	142427		34473	HERMES	ARMAND	8
186833	2007-05-29	142427		34473	HERMES	ARMAND	7
186832	2007-05-29	142427		34473	HERMES	ARMAND	6
186831	2007-05-29	142427		34473	HERMES	ARMAND	5

```

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys
    
```

Spreadsheet Mode with Field Names

Spreadsheet mode with field names, option **2**, displays one record per line with each record field in a separate column. This display mode is the same as option **1**, except that the field names are always used as the column headings.

```

EZVIEW Display Modes
1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 02

F3=Exit
    
```

Enter **2** to select spreadsheet mode with field name headings.

To search for a field, enter all or any part of its column heading (name or text) here.

```

Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Lower Limits: 07/05/29142429966000 US

1 2 3 4 5 6
HSDATE HSTIM6 HSMNUM HSUEND HSTOPG HSLSEQ
186846 2007-05-29 142429 34473 HERMES ARMAND 20
186845 2007-05-29 142429 34473 HERMES ARMAND 19
186844 2007-05-29 142429 34473 HERMES ARMAND 18
186843 2007-05-29 142429 34473 HERMES ARMAND 17
186842 2007-05-29 142428 34473 HERMES ARMAND 16
186841 2007-05-29 142428 34473 HERMES ARMAND 15
186840 2007-05-29 142428 34473 HERMES ARMAND 14
186839 2007-05-29 142427 34473 HERMES ARMAND 13
186838 2007-05-29 142427 34473 HERMES ARMAND 12
186837 2007-05-29 142427 34473 HERMES ARMAND 11
186836 2007-05-29 142427 34473 HERMES ARMAND 10
186835 2007-05-29 142427 34473 HERMES ARMAND 9
186834 2007-05-29 142427 34473 HERMES ARMAND 8
186833 2007-05-29 142427 34473 HERMES ARMAND 7
186832 2007-05-29 142427 34473 HERMES ARMAND 6
186831 2007-05-29 142427 34473 HERMES ARMAND 5

F18=More EZVIEWS F19=Shift Left F20=Shift Right F24=More Keys
    
```

Enter a **?** to see the options available. Enter an **E** by a record to display it in EZFIELD format. The maximum field length that can be shown in EZFIELD format is 120 bytes.

Press **F19** to shift the display left. Press **F20** to shift the display right to the next field boundary.

EZFIELD Mode with Field Text

Option 3 on the Display Modes window displays a single record with each record field on a separate line. The field text serves as the line heading. All numeric fields are translated. This mode is useful for displaying multiple record formats.

The maximum field length that can be displayed is 512 bytes. If the number of fields exceeds the display size, use **F19** and **F20** to shift the display left and right. Roll the display to see other records.

```
EZVIEW Display Modes
1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 03

F3=Exit
```

Enter 3 to select EZFIELD mode with field text headings.

```
Rec. Length.: 334 File: ABAHS1 Library: JRICHARDS Member: ABAHS1
Rec. Count.: 165273 Access: *KEY Mode.: INQUIRY
RRN.....: 186846 Format.: HSFMT
Scan.....: ___ to ___ -OR- ___ *EQ ___
Field/text locate: _____
Lower Limits. 07/05/29142429966000 US

_ Date in System Fmt.....: 2007-05-29
HSTIM6.....: 142429
Message No.....: 34473
Pager Service Vendor Nam: HERMES
Pager Name.....: ARMAND
Log Sequence Number....: 20
Log Type.....: M
Major/Minor Return Code.: ___
Length of Data Logged...: 0
Message Text Field.....: Connection to SMTP host 192.168.1.50 closed.
_____
_____
HSYMD.....: 07/05/29
Mode of Operation.....: M

More...
F2=Previous Files F3=Exit F4=Select Mode F24=More Keys
```

Option field for the record. Enter a ? to see a list of options.

EZFIELD Mode with Field Names

Option 4 on the Display Modes window displays a single record with each record field on a separate line. This display mode is the same as option 3, except that field names are combined with text. If the number of fields exceeds the display size, use **F19** and **F20** to shift the display left and right. Roll the display to see other records.

```

EZVIEW Display Modes
1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 04
F3=Exit
    
```

Enter 4 to select EZFIELD mode with field name headings and field text.

```

Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY
RRN.....: 186846 Format.: HSFMT
Scan.....: to -OR- *EQ
Field/text locate:
Lower Limits: 07/05/29142429966000 US

_ HSDATE - Date in System.: 2007-05-29
HSTIM6 - HSTIM6.....: 142429
HSMNUM - Message No.....: 34473
HSUEND - Pager Service U: HERMES
HSTOPG - Pager Name.....: ARMAND
HSLSEQ - Log Sequence N: 20
HSLTYP - Log Type.....: M
HSMJMN - Major/Minor Ret:
HSLGTH - Length of Data.: 0
HSLTX - Message Text File: Connection to SMTP host 192.168.1.50 closed.

HSYMD - HSYMD.....: 07/05/29
HSMDOF - Mode of Operati: M

F2=Previous Files F3=Exit F4=Select Mode More... F24=More Keys
    
```

Option field for the record. Enter a ? to see a list of options.

Character Mode (16 Horizontal Lines)

Option 5 on the Display Modes window displays 16 records, one per line, presented as characters. A ruler above the display shows the character positions. Numbers below the ruler indicate the key field sequence. Of all the display modes, this mode shows the most data on a screen.

If you select to display the record format names (option F on the F13 window), the format name is displayed to the left of the record. Roll the display to see other records. To move the display right and left, press F19 and F20, or enter a column number in the Window field.

EZVIEW Display Modes

1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 05

F3=Exit

Enter 5 to display 16 records in character mode.

The 1s here mark the character positions.

Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1
Rec. Count.: 165273 Access: *KEY Mode: INQUIRY
SCAN.....: ___ to ___ -OR- *EQ
Window.....: 1
Lower Limits: 07/05/29142429966000 US
.....10.....20.....30.....40.....50.....60
2222

186846	_	2007-05-29	ââ	â	HERMES	ARMAND	M	Connection
186845	_	2007-05-29	ââ	â	HERMES	ARMAND	âR	221 HERMES.
186844	_	2007-05-29	ââ	â	HERMES	ARMAND	±S	?QUIT
186843	_	2007-05-29	ââ	â	HERMES	ARMAND	"R	250 Message
186842	_	2007-05-29	ââ±	â	HERMES	ARMAND	?S	â
186841	_	2007-05-29	ââ±	â	HERMES	ARMAND	TS	====_Next_
186840	_	2007-05-29	ââ±	â	HERMES	ARMAND	lS	000183282 a
186839	_	2007-05-29	ââ"	â	HERMES	ARMAND	S	-----_N
186838	_	2007-05-29	ââ"	â	HERMES	ARMAND	S	âReport Set:
186837	_	2007-05-29	ââ"	â	HERMES	ARMAND	S	-----_Next_
186836	_	2007-05-29	ââ"	â	HERMES	ARMAND	S	âFrom: <Robo
186835	_	2007-05-29	ââ"	â	HERMES	ARMAND	âR	354 Enter m
186834	_	2007-05-29	ââ"	â	HERMES	ARMAND	±S	?DATA
186833	_	2007-05-29	ââ"	â	HERMES	ARMAND	"R	250 armand.
186832	_	2007-05-29	ââ"	â	HERMES	ARMAND	?S	RCPT TO:<ar
186831	_	2007-05-29	ââ"	â	HERMES	ARMAND	TR	?250 Robot.A

F2=Previous Files F3=Exit F4=Select MPlease Wait...

Column number of the first column displayed. Enter the first column to be displayed at the left of the screen.

Character Mode with Field Names

Option 6 on the Display Modes window displays eight records, one per line, presented as characters. This display mode is the same as option 5 except that the field names, displayed vertically, mark the starting byte position of each field.

```

EZUIEW Display Modes

1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 06

F3=Exit
    
```

Enter 6 to display records in character mode with field name labels.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: ___ to ___ -OR- _____ *EQ _____
Window.....: 1
Record nbr... 00000011293 US
                .....10.....20.....30.....40.....50.....60

11293 _ 2005-08-30 dcl à BITSTREAM MARKA M Connected t
11294 _ 2005-08-30 dcl à BITSTREAM MARKA R *220 conn.mc
11295 _ 2005-08-30 dcl à BITSTREAM MARKA S HELO HELPSY
11296 _ 2005-08-30 dcl à BITSTREAM MARKA R "250 conn.mc
11297 _ 2005-08-30 dcl à BITSTREAM MARKA |S MAIL FROM: <
11298 _ 2005-08-30 dcl à BITSTREAM MARKA ^R ±250 Ok
11299 _ 2005-08-30 dcl à BITSTREAM MARKA ?S RCPT TO: <ma
11300 _ 2005-08-30 dcl à BITSTREAM MARKA "R ±250 Ok

      H      H H H H      H      H HH H H
      S      S S S S      S      S SS S S
      D      T M U T      L LM L L
      A      I N E O      S TJ G T
      T      M U N P      E YM T X
      E      6 M D G      Q PN H

F19=Shift Left F20=Shift Right F21=Command Line F24=More Keys
    
```

Press **F19** to shift the display left; press **F20** to shift the display right.

The field name marks the starting byte position of the field.

Hexadecimal Mode (4 Records Per Screen)

Option 7 on the Display Modes window displays four records at a time, three lines for each, one line showing characters and the two lines below it showing the corresponding hexadecimal codes. This display mode allows the data to be seen and changed at the bit level. Roll the display to see other records. To move the display left and right, press **F19** and **F20**, or enter a column number in the Window field.

```

EZVIEW Display Modes
1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. E2FIELD Mode with Field Text.
4. E2FIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded E2FIELD Mode

Select Desired Option: 07
F3=Exit
    
```

Enter 7 to display four records in hexadecimal mode.

```

Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY
SCAN..... to -OR- *EQ
Window..... 1
Lower Limits: 07/05/29142429966000 US
.....10.....20.....30.....40.....50.....60
          2222
186846 _ 2007-05-29 â  & HERMES  ARMAND      M      Connection
          FFFF6FF6FF044900343CCDDCE4444CDDCDC4444000D444400C99988A8994
          2007005029122F0047F8594520000194154000002F400000F36555339650

186845 _ 2007-05-29 â  & HERMES  ARMAND      R      221 HERMES.
          FFFF6FF6FF044900343CCDDCE4444CDDCDC4444009D444400FFF4CCDDCE4
          2007005029122F0047F8594520000194154000001F900007F2210859452B

186844 _ 2007-05-29 â  & HERMES  ARMAND      ±S     ?QUIT
          FFFF6FF6FF044900343CCDDCE4444CDDCDC4444008E444406DECE0244444
          2007005029122F0047F8594520000194154000001F200000F8493D500000

186843 _ 2007-05-29 â  & HERMES  ARMAND      "R     ^250 Message
          FFFF6FF6FF044900343CCDDCE4444CDDCDC4444007D444405FFF4D8AA888
          2007005029122F0047F8594520000194154000001F900003F25004522175

F2=Previous Files  F3=Exit  F4=Select Mode  F24=More Keys
    
```

Below each character is its hexadecimal code. The top hex digit represents the first 4 bits of the byte and the lower hex digit the second 4 bits. For example, E2 is the hexadecimal code for the character S.

Hexadecimal Mode with Field Names

Option 8 on the Display Modes window displays two records, three lines for each, one line showing characters and the two lines below it showing the corresponding hexadecimal codes. This display mode is the same as option 7 except that the field names, presented vertically, mark the beginning of each field.

```

EZVIEW Display Modes

1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 08

F3=Exit
    
```

Enter 8 to display two records in hexadecimal mode with field name labels.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access: *ARRIVAL Mode: INQUIRY
SCAN.....: ___ to ___ -OR- ___ *EQ ___
Window.....: 1
Record nbr.: 00000011293 US
              10.....20.....30.....40.....50.....60

11293 _ 2005-08-30 dcl à BITSTREAM MARKA M Connected t
      FFFF6FF6FF088400141CCEEEDCCD4DCDDC44444000D444400C99988A884A
      2005008030043F0024F2932395140419210000000F400000F36555335403

11294 _ 2005-08-30 dcl à BITSTREAM MARKA R *220 conn.mc
      FFFF6FF6FF088400141CCEEEDCCD4DCDDC44444001D444409FFF48999498
      2005008030043F0024F2932395140419210000000F900000F22003655B43

      H      H H H      H      H HH H H
      S      S S S      S      S SS S S
      D      T M U      T      L LM L L
      R      I N E      O      S TJ G T
      T      M U N      P      E YM T X
      E      6 M D      G      Q PN H

F19=Shift Left      F20=Shift Right      F21=Command Line      F24=More Keys
    
```

Press F19 to shift the display left; press F20 to shift the display right.

The field name marks the starting byte position of the field.

Single-Record Mode

Option **9** on the Display Modes window displays one record, presented as both characters and hexadecimal codes, with a ruler beneath. This mode shows the most data for a record, up to 240 bytes. If the record is longer than 240 bytes, enter a character position in the Window field to see the rest of the record. Roll the display to see other records. To move the display left and right, press **F19** and **F20**.

```
EZVIEW Display Modes  
1. SpreadSheet Mode with Field Text.  
2. SpreadSheet Mode with Field Names.  
3. EZFIELD Mode with Field Text.  
4. EZFIELD Mode with Field Names.  
5. Character Mode (16 horizontal lines).  
6. Character Mode with Field Names.  
7. Hex Mode (4 hex records per screen).  
8. Hex Mode with Field Names.  
9. Single Record Mode.  
10. Expanded EZFIELD Mode  
  
Select Desired Option: 09  
  
F3=Exit
```

Enter **9** to display one record, both in characters and hexadecimal codes.

```
Rec. Length.: 334 File: RBAHS1 Library: JRICHARDS Member: RBAHS1  
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY  
SCAN.....: ___ to ___ -OR- *EQ  
Window.....: 1  
Lower Limits. 07/05/29142429966000 US  
  
186846 _ 2007-05-29 àâ  & HERMES ARMAND M Connection  
FFFF6FF6FF044900343CCDDCE4444CDDCDC4444000D444400C99988A0994  
2007005029122F0047F8594520000194154000002F400000F36555339650  
..... 10..... 20..... 30..... 40..... 50..... 60  
to SMTP host 192.168.1.50 closed.  
A94EDED489AA4FFF4FFF4F4FF4899A88444444444444444444444444444444  
3602437086230192B168B1B500336254B000000000000000000000000000  
..... 70..... 80..... 90..... 100..... 110..... 120  
  
4444444444444444444444444444444444444444444444444444444444444444  
00000000000000000000000000000000000000000000000000000000000000  
..... 130..... 140..... 150..... 160..... 170..... 180  
  
4444444444444444444444444444444444444444444444444444444444444444  
00000000000000000000000000000000000000000000000000000000000000  
..... 190..... 200..... 210..... 220..... 230..... 240  
F2=Previous Files F3=Exit F4=Select Mode F24=More Keys
```

Option field for the record.

Expanded EZFIELD Mode

Option **10** on the Display Modes window is an expanded EZFIELD Mode that provides more heading and text information. This is helpful if you need field format information in addition to the field name and text.

```

EZVIEW Display Modes

1. SpreadSheet Mode with Field Text.
2. SpreadSheet Mode with Field Names.
3. EZFIELD Mode with Field Text.
4. EZFIELD Mode with Field Names.
5. Character Mode (16 horizontal lines).
6. Character Mode with Field Names.
7. Hex Mode (4 hex records per screen).
8. Hex Mode with Field Names.
9. Single Record Mode.
10. Expanded EZFIELD Mode

Select Desired Option: 10

F3=Exit
    
```

Enter **10** to make more heading and text information visible.

```

Rec. Length.: 334 File: BAHS1 Library: JRICHARDS Member: BAHS1
Rec. Count.: 165273 Access.: *KEY Mode.: INQUIRY
RRN.....: 186846 Format.: HSFMT
Scan.....: ___ to ___ -OR- ___ *EQ ___
Field/text locate: _____
Lower Limits: 07/05/29142429966000 US

Date in System Fmt HSDATE A 10 2007-05-29
HSTIM6 HSTIM6 P 6,0 142429
Message No. HSMNUM P 9,0 34473
Pager Service Vendor Nam HSUEND A 10 HERMES
Pager Name HSTOPG A 10 ARMAND
Log Sequence Number HSLSEQ P 5,0 20
Log Type HSLTYP A 1 M
Major/Minor Return Code HSMJMN A 4  
Length of Data Logged HSLGTH P 3,0 0
Message Text Field HSLTX A 256 Connection to SMTP host 192.168
1.50 closed.

-----
HSYMD HSYMD A 8 07/05/29
Made of Operation HSMDOF A 1 M

More...
F2=Previous Files F3=Exit F4=Select Mode F24=More Keys
    
```

Option field for the record. Enter a **?** to see a list of options.

Additional Database Views

Easy View lets you have more than one file view available at the same time so that you can switch between them. Each view is a group job, and you can have as many as 16 group jobs running at a time. Easy View does not affect any other group jobs running at the same time.

- To work with database views, press **F18** to display the Database Views window and press **F9** to specify another file.
- To switch between views on the Database Views window, enter a **5** by the view to be displayed.
- To end a view, enter a **4** by the view (or, press **F3** from the record display). From an additional view, Easy View returns you to the previous view; from the initial view, the Easy View session ends.

The screenshot shows a terminal window titled "Select/Activate Additional Data Base Views". At the top, it displays system information: "Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS", "Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY", and "SCAN.". Below this, it lists options: "Options: 4=End View 5=Display View". A list of views is shown, with "1. EZVIEW1 EZVIEW - 1st job" highlighted. At the bottom, there are keyboard shortcuts: "F5=Refresh F9=Activate View F12=Previous", "F2=Previous Files F3=Exit F4=Select Mode F24=More Keys".

Enter 4 to end the view.

Enter 5 to select the view for display.

EQ

US

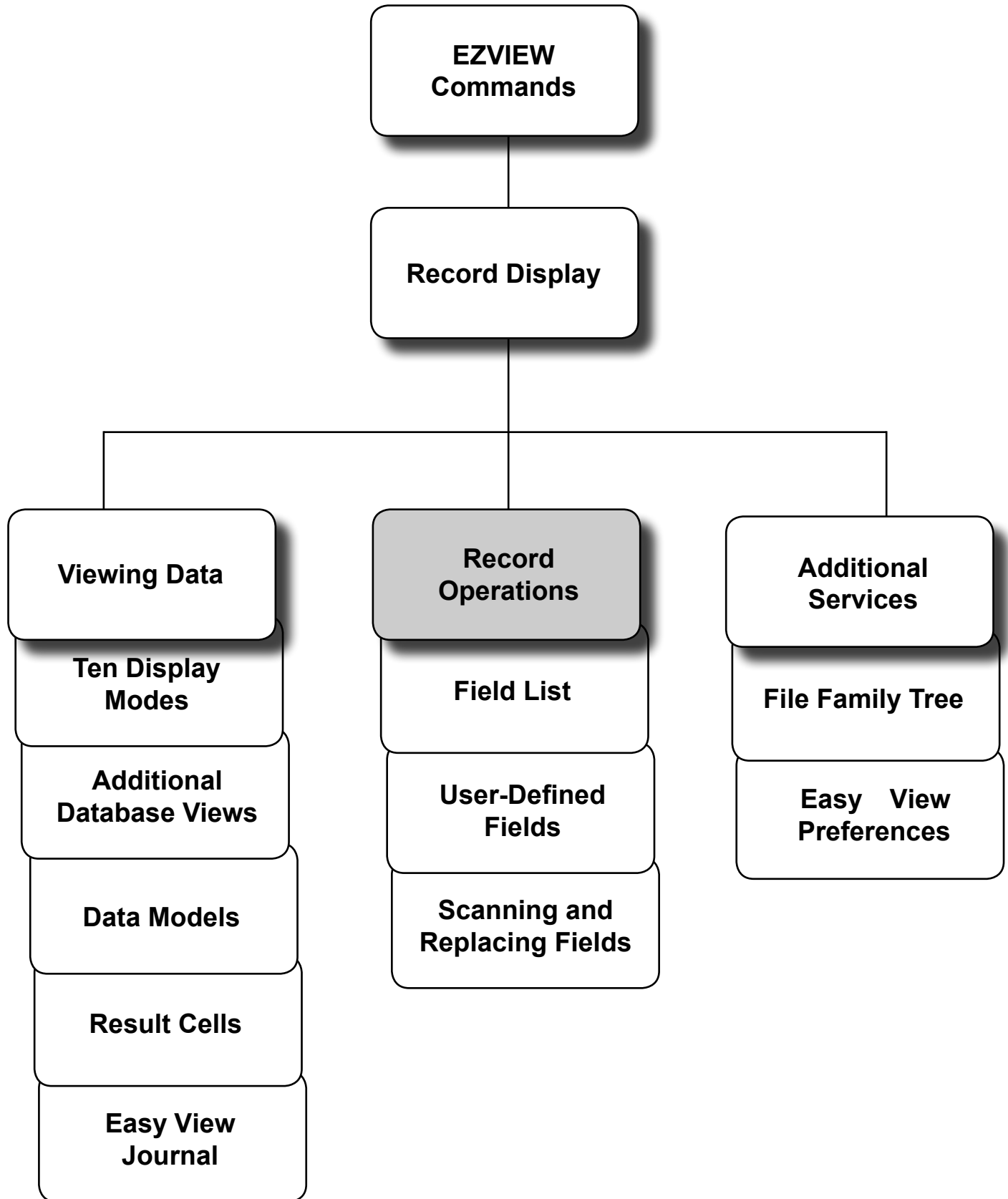
1. EZVIEW1 EZVIEW - 1st job

F5=Refresh F9=Activate View F12=Previous

F2=Previous Files F3=Exit F4=Select Mode F24=More Keys

Press **F9** to display a command prompt screen. Enter the same parameter values you would enter for an EZVIEW command.

Press **F12** to remove the window.



Record Operations

You can change the contents of the file being displayed if your default values allow it (see Easy View Preferences). You can be authorized to add and delete records, replicate and change records, export records to new or existing files, and print and save record images.

Note: Joined logical and DDM files are opened for read-only due to system constraints. If a file is dependent on other files or objects you are not authorized to, the file may not be viewable or changeable.

Every display mode includes an option field at the beginning of each record. Select an operation to perform on a record by entering an option code in the option field for the record. To see the options available, enter a ? in the options field. To add a record to the file, press **F6**. You stay in Add mode until you press **F3** to make it easy to add several records at once.

```

Rec. Length.:      334 File: RBAHS      Library: JRICHARDS  Member: RBAHS
Rec. Count.:      165273 Access.: *ARRIVAL  Mode.: INQUIRY
SCAN.....:      to -OR- *EQ
Field number:     1 field/text locate:
Record nbr.:     00000011293
Date in         Message      Pager
System Fmt     HSTIM6      No.      Service Ue  Pager Name  HSLSEQ
11293 ? 2005-08-30 84834    12441 BITSTREAM MARKA      0
11294 - 2005-08-30 84834    12441 BITSTREAM MARKA      1
11295 - 2005-08-30 84834    12441 BITSTREAM MARKA      2
11296 ..... 441 BITSTREAM MARKA      3
11297 : Valid Options : 441 BITSTREAM MARKA      4
11298 : : 441 BITSTREAM MARKA      5
11299 : C = Change record : 441 BITSTREAM MARKA      6
11300 : D or 4 = Delete record : 441 BITSTREAM MARKA      7
11301 : R = Replicate record : 441 BITSTREAM MARKA      8
11302 : E = Display record : 441 BITSTREAM MARKA      9
11303 : P = Print this record : 441 BITSTREAM MARKA     10
11304 : S = Save Record Image : 441 BITSTREAM MARKA     11
11305 : X = Write Record Image : 441 BITSTREAM MARKA     12
11306 : : 441 BITSTREAM MARKA     13
11307 : Desired option: _ : 441 BITSTREAM MARKA     14
11308 : ..... 441 BITSTREAM MARKA     15
    
```

Keyed access not allowed for requested file.

Enter a ? to display the options window.

Enter an option for this record:

- C** Change this record.
- D or 4** Delete this record.
- R** Copy this record and then change the copy.
- E** Display this record in EZFIELD mode.
- P** Print this record image. In display modes 1—4, the print is formatted in EZFIELD mode. In modes 5—9, Character/Hex mode is used. Each print selected is placed in a separate spool file.
- S** Save this record image.
- X** Copy this record to a new or existing file.

Adding and Changing

The display Easy View presents depends on the record operation you select. When you are adding a record, Easy View presents a record format in which you enter the field values for the new record. Character fields are blank, and numeric fields are zero. When you are changing a record, Easy View presents the existing record so you can change its field values.

You can enter numbers for all numeric fields, even packed fields; Easy View does the conversion for you. You can press the Dup key to duplicate the field value from the previous record entered.

Note: Do not add or change the *DATE and *TIME fields. The operating system has strict requirements for these fields, and the add or change will be rejected if you do not enter exact data.

After you press Enter, Easy View redisplay the record so you can verify the new record or the changes. (The verification default can be changed (see Easy View Preferences.)

ADD Mode Screenshot:

```

Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count...: 330 Mode...: ADD
Format.....: ROBOT

ROB Job number.....: _____
ROB Job name.....: _____
ROB Job Description text: _____
ROB Job Type.....: -
ROB Job date.....: _____ 0
ROB Date Code.....: -
ROB Application LOGGR: _____
ROB User Profile.....: _____
ROB Notes.....: _____

ROB Application Exit Grp: _____
CAL Calendar Name.....: _____
JOB Date Object Name....: _____
ROB Start Time.....: _____ 0
ROB Save Time.....: _____ 0

F3=Exit F4=Switch Modes F9=Paste Record F10=Paste Field F24=More Keys More...
```

Annotations for ADD Mode:

- Indicates you are adding a new record.
- Enter the field values for the new record in the blanks.
- Indicates you are changing an existing record.

CHANGE Mode Screenshot:

```

Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count...: 327 Mode...: CHANGE
Format.....: ROBOT
RRN.....: 1

ROB Job number.....: 000000000100
ROB Job name.....: PRTDSKSPC
ROB Job Description text: Print Disk Space
ROB Job Type.....: C
ROB Job date.....: _____ 0
ROB Date Code.....: Q
ROB Application LOGGR: _____
ROB User Profile.....: *RBDFT
ROB Notes.....: _____

ROB Application Exit Grp: *NONE
CAL Calendar Name.....: STANDARD
JOB Date Object Name....: _____
ROB Start Time.....: 800
ROB Save Time.....: _____ 0

F11=Toggle View F12=Previous F21=Command Line F24=More Keys More...
```

Annotations for CHANGE Mode:

- Shows the data in the existing record so you can change it.
- F11 toggles the view between field text, field name, or field text, name, length, and attributes.

Replicating and Deleting

When you are replicating a record, Easy View presents a copy of the existing record so you can change its field values for the new record. (The Dup key is also effective when replicating.)

Caution: Duplicate keys can be entered.

When you are deleting a record, Easy View presents the existing record so you can verify that it is the record you want deleted. To change the verification default, see Easy View Preferences.

```
Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count.: 330 Mode: REPLICATE
Format: ROBOT
RRN: 1

ROB Job number: 000000000100
ROB Job name: PRTDSKSPC
ROB Job Description text: Print Disk Space
ROB Job Type: C
ROB Job date: 0
ROB Date Code: Q
ROB Application LOGGR:
ROB User Profile: *RBTDFT
ROB Notes:

ROB Application Exit Grp: *NONE
CAL Calendar Name: STANDARD
JOB Date Object Name:
ROB Start Time: 800
ROB Save Time: 0

More...
F3=Exit F4=Switch Modes F9=Paste Record F10=Paste Field F24=More Keys
```

Indicates you are replicating a record.

Shows the data in the record copy so you can change it if you wish.

```
Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count.: 330 Mode: DELETE
Format: ROBOT
RRN: 1

ROB Job number: 000000000100
ROB Job name: PRTDSKSPC
ROB Job Description text: Print Disk Space
ROB Job Type: C
ROB Job date: 0
ROB Date Code: Q
ROB Application LOGGR:
ROB User Profile: *RBTDFT
ROB Notes:

ROB Application Exit Grp: *NONE
CAL Calendar Name: STANDARD
JOB Date Object Name:
ROB Start Time: 800
ROB Save Time: 0

Press Enter to Delete Record
More...
F3=Exit F4=Switch Modes F9=Paste Record F10=Paste Field F24=More Keys
```

Indicates you are deleting a record

Shows the data in the record so you can verify that the correct record is being deleted.

Saving a Record Image

You can save a copy of a record for later use on an Add, Change, or Replicate record display of the same file. This is useful for adding multiple copies of data, or holding on to a record while searching through others.

To save a record, enter **S** in its option field. In the Add, Change, or Replicate record display, press **F9** to paste the entire record, or position the cursor in a field and press **F10** to replace that field with the field in the saved record.

Caution: Duplicate keys can be entered.

Enter **S** to save the record.

```

Rec. Length.: 484 File: ROBOTL Library: SUE Member: ROBOTL
Rec. Count.: 308 Access.: *KEY Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Lower Limits: ACTLOADXL US

```

	ROB Job number	ROB Job name	ROB Job Description text	JOB TYP
131	00000006750	ACTLOADXL		C
194	00000007239	ACTQRYDOCL		C
160	00000006811	ACTUFYLIBL	Set libl for ACTUFY jobs	C
162	00000006813	AGEOUTQ		C
105	00000006726	AML	aml	C
344	00000007432	AMWAY	testing	C
230	00000007031	ANNUAL	Year-end job	C
115	00000007555	ARCHIVING	report/save testing	C
90	00000006728	ASYNCLRN	Robot/SAVE Command	C
117	00000006735	ASYNCLRN	Robot/SAVE Command	C
73	00000006368	ATYPE7	Robot/SAVE Command	C
53	00000006495	AUTOMOVE	Automove & release to scr	C
23	00000006238	BACFR1	Friday backups	C
70	00000007107	BACKUP1	michelle	C
19	00000006234	BACMON	MONDAY backups	C
159	00000007156	BACTHU	Thursday backups	C

F3=Add Record F7=Scan Forward F8=Scan Backwards F9=Services F24=More Ke

```

Rec. Length.: 484 File: ROBOTL Library: SUE Member: ROBOTL
Rec. Count.: 308 Mode.: REPLICATE
Format.....: ROBOT
RRN.....: 160

```

```

ROB Job number.....: 00000006811
ROB Job name.....: ACTUFYLIBL
ROB Job Description text: Set libl for ACTUFY jobs
ROB Job Type.....: C
ROB Job date.....: 0
ROB Date Code.....: 0
ROB Application LOGGR: GUNBY
ROB User Profile.....: *RBTDFY
ROB Notes.....:

```

```

ROB Application Exit Grp: *NONE
CAL Calendar Name.....:
JOB Date Object Name.....:
ROB Start Time.....: 9999
ROB Save Time.....: 0

```

F3=Exit F4=Switch Modes F9=Paste Record F10=Paste Field F24=More Keys More...

Press **F9** to replace the entire record with the saved record.

Press **F10** to replace the field that the cursor is in with the contents of the saved record for that field.

Input Modes

When you enter an option on a formatted record display, the record is initially presented for EZFIELD input as shown on the preceding pages. From EZFIELD input, you can switch to hexadecimal code input or character input. The record is initially presented for character input when the option is entered on an unformatted record display.

Press **F4** to switch between EZFIELD mode and character or hexadecimal mode. Press **F5** to switch between character and hexadecimal code input.

```

Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count.: 330 Mode: REPLICATE
Format.....: ROBOT
RRN.....: 1

ROB Job number.....: 00000000100
ROB Job name.....: PRTDSKSPC
ROB Job Description text: Print Disk Space
ROB Job Type.....: C
ROB Job date.....: 0
ROB Date Code.....: 0
ROB Application LOGGR:
ROB User Profile.....: *RBTDFT
ROB Notes.....:

ROB Application Exit Grp: *NONE
CAL Calendar Name.....: STANDARD
JOB Date Object Name.....:
ROB Start Time.....: 000
ROB Save Time.....: 0
    
```

More...

F3=Exit F4=Switch Modes F9=Paste Record F10=Paste Field F24=More Keys

Press **F4** to switch between EZFIELD mode and character or hexadecimal mode.

```

Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count.: 330 Mode: REPLICATE
Format.....: ROBOT
RRN.....: 1

Window.....: 1
.....10.....20.....30.....40.....50.....60

00000000100PRTDSKSPC Print Disk Space C...Q US
FFFFFFFFFFFFDDECEDEDC4D989A4C8A94E988844444444C0000D4444444
00000000010079342227307995304922027135000000003000F80000000

K J P JJ DL
Y O R OO TO
T B O BB CG
I N G TD OG
M A D YA DR
E M S PT EP
    
```

F3=Exit F4=Switch Modes F5=Char/Hex F6=Hex Table F24=More Keys

Press **F5** to switch between character and hexadecimal code input.

Press **F6** to display a table of characters and hexadecimal codes.

F19=Shift Left F20=Shift Right F24=More Keys

Press **F19** to move the display to the left; press **F20** to move the display to the right.

Copying and Transferring Records

You can isolate one or multiple records of a file for testing, analyzing, or some other work function. The Write Record Image option (X) allows you to copy records to a new or existing file. Only physical files can be transferred from and the target record format must be the same as the current file.

```

Rec. Length.: 334 File: ABAHS Library: JRICHARDS Member: ABAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN..... to -OR- *EO
Field number: 1 field/text locate:
Record nbr.: 0000011293 US

```

Date in System	Fmt	HSTIM6	Message No.	Pager Service Use	Pager Name	HSLSEQ
11293	X	2005-08-30	84834	12441	BITSTREAM MARKA	0
11294	-	2005-08-30	84834	12441	BITSTREAM MARKA	1
11295	-	2005-08-30	84834	12441	BITSTREAM MARKA	2
11296	-	2005-08-30	84834	12441	BITSTREAM MARKA	3
11297	X	2005-08-30	84834	12441	BITSTREAM MARKA	4
11298	-	2005-08-30	84834	12441	BITSTREAM MARKA	5
11299	-	2005-08-30	84834	12441	BITSTREAM MARKA	6
11300	-	2005-08-30	84834	12441	BITSTREAM MARKA	7
11301	X	2005-08-30	84834	12441	BITSTREAM MARKA	8
11302	-	2005-08-30	84834	12441	BITSTREAM MARKA	9
11303	-	2005-08-30	84834	12441	BITSTREAM MARKA	10
11304	-	2005-08-30	84834	12441	BITSTREAM MARKA	11
11305	-	2005-08-30	84834	12441	BITSTREAM MARKA	12
11306	-	2005-08-30	84834	12441	BITSTREAM MARKA	13
11307	-	2005-08-30	84834	12441	BITSTREAM MARKA	14
11308	-	2005-08-30	84835	12441	BITSTREAM MARKA	15

Keyed access not allowed for requested file.

Enter X next to each record you want to transfer and then press Enter.

```

Rec. Length.: 334 File: ABAHS Library: JRICHARDS Member: ABAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN..... to -OR- *EO
Field number: 1 field/text locate:
Record nbr.: 0000011293 US

```

Date in System	Message	Pager	Pager Name	HSLSEQ
11293	X	2005-08	Set Export File	: AKA 0
11294	-	2005-08		: AKA 1
11295	-	2005-08	File Name.....: <u>TESTFILES</u>	: AKA 2
11296	-	2005-08	Library Name.....: <u>JRICHARDS</u>	: AKA 3
11297	X	2005-08	Member Name.....: <u>*FIRST</u>	: AKA 4
11298	-	2005-08	File Action.....: <u>C</u>	: AKA 5
11299	-	2005-08	C=Create File	: AKA 6
11300	-	2005-08	R=Clean and Add	: AKA 7
11301	X	2005-08	A=Add to File	: AKA 8
11302	-	2005-08		: AKA 9
11303	-	2005-08	CF03=Exit	: AKA 10
11304	-	2005-08		: AKA 11
11305	-	2005-08		: AKA 12
11306	-	2005-08-30	84834	12441 BITSTREAM MARKA 13
11307	-	2005-08-30	84834	12441 BITSTREAM MARKA 14
11308	-	2005-08-30	84835	12441 BITSTREAM MARKA 15

Keyed access not allowed for requested file.

Enter an option for the file action:

- C** Create a new file containing the selected records.
- R** Replace all records in an existing file
- A** Add this record to an existing file

The Export field shows how many files have been updated during the current view.

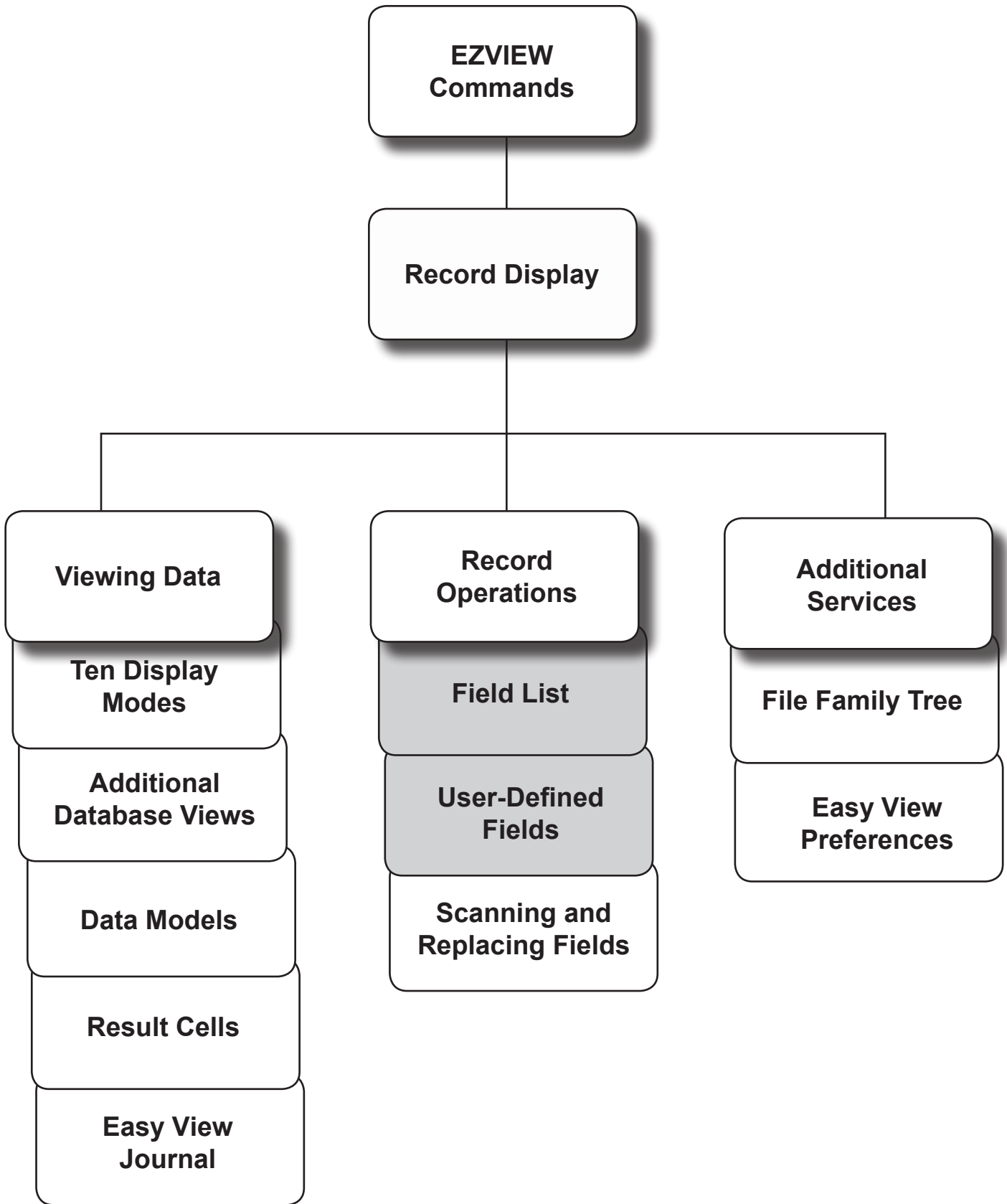
```

334 File: ABAHS Library: JRICHARDS
55273 Export: 3 Access.: *ARRIVAL
) -OR- *EO
field/text locate:
11293
n

```

Fmt	HSTIM6	Message No.	Pager Service Use	Pa
38-30	84834	12441	BITSTREAM	MAF
38-30	84834	12441	BITSTREAM	MAF
38-30	84834	12441	BITSTREAM	MAF
38-30	84834	12441	BITSTREAM	MAF
38-30	84834	12441	BITSTREAM	MAF

Notes:



Field List

File Field Reference

From any display mode, press **F5** to see a list of the DDS fields for the file. For each field, the list shows the field name, key, data type, length, decimal places, record position and text. Press **F9** to print the list.

You can also display and print this field list from the Additional Services menu (described later). Outside of Easy View, you can display the field list using the EZFIELD command.

```

Rec. Length.: 484 File: RBTR0B Library: ROBOTLIB Member: RBTR0B
Rec. Count.: 330 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: to -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 00000001 US

```

ROB Job number	ROB Job name	ROB Job Description text	JOB TYP	
1	00000000100	PRTDKSPC	Print Disk Space	C
2	000000006273	DUANE_INQ	an inquiry message	C
3	00000000102	RBNPOLL	Poll systems in network	C
4	000000006274	RBCCRTMFD	Create CONSOLE Msg Desc's	C
5	00000000104	RBT655	Purge Robot History	C
6	000000007240	TEST	Forecast Extract to PC	C
7	000000006465	MICH		F
8	000000007352	MI11	Job11-Michelle	C
9	000000006275	USERJOB	USERJOB BLOWS	F
10	000000000009	WRKPRTRR	wrkprterr	C
11	000000007219	VANVT	Replay Object VANVT	C
12	000000007187	CRAIGTEST	Replay Object CRAIGTEST	C
13	000000000014	COTEST	test job to Hobbes	C
14	000000007353	MI12	Job12-Michelle	C
15	000000007223	VANMONITOR	Replay Object VANMONITOR	C
16	000000007354	MI13	Job13-Michelle	C

F2=Previous Files F3=Exit F4=Select Mode F5=Field List F24=More Keys

Press **F5** to see a field list.

To display a field not shown, enter a string that occurs in either the field name or its text.

Press **F9** to print a listing of the file fields. The page size defaults are set by the system printer file QSYSVRT. The output queue is set as a default value (see Tailoring Easy View).

```

EX180R                               File Field Reference                               CVBRKING
                                         10/14/97 9:15:01
File: RBTR0B   Lib: ROBOTLIB
Type Options, Press Enter.           Text Search:
  U=Add to Temporary View

```

Name	Keys	Typ	Len	Dec	From	To	Colhdg or Text
FORMAT	ROBOT						ROB Job setup A:RBT
— KYTIME		A	12		1	12	ROB Job number
— JOBNAM		A	10		13	22	ROB Job name
— PROGDS		A	25		23	47	ROB Job Description text
— JOBTYP		A	1		48	48	ROB Job Type
— JOBDAT		P	7	0	49	52	ROB Job date
— DTCODE		A	1		53	53	ROB Date Code
— LOGGRP		A	10		54	63	ROB Application LOGGRP
— PROFIL		A	10		64	73	ROB User Profile
— RBNOTE		A	60		74	133	ROB Notes
— RTAPPI		A	10		134	143	ROB Application Exit Grp
— CALNAM		A	10		144	153	CAL Calendar Name
— RTDONM		A	10		154	163	JOB Date Object Name
— TIMEST		P	4	0	164	166	ROB Start Time

F3=Exit F6=User define F9=Print listing F21=Command line F24=More Keys

File Field Reference Panel

The File Field Reference panel lists each field in order with its DDS information.

Data type:

- A** Character
- B** Binary
- D** Double-precision; treated as character
- G** Graphic
- L** ISO date
- O** Other; treated as character
- P** Packed decimal
- S** Zoned decimal
- T** ISO time
- Z** ISO time stamp

Record format name.

Key field sequence.

Name		Keys	Typ	Len	Dec	From	To	Colhdg	or Text
FORMAT : ROBOT									ROB Job setup A:RBT
-	KYTIME		A	12		1	12		ROB Job number
-	JOBNAM		A	10		13	22		ROB Job name
-	PROGDS		A	25		23	47		ROB Job Description text
-	JOBTYP		A	1		48	48		ROB Job Type
-	JOB DAT		P	7	0	49	52		ROB Job date
-	DTCODE		A	1		53	53		ROB Date Code
-	LOGGRP		A	10		54	63		ROB Application LOGGRP
-	PROFIL		A	10		64	73		ROB User Profile
-	RBNOTE		A	60		74	133		ROB Notes
-	RTAPPI		A	10		134	143		ROB Application Exit Grp
-	CALNAM		A	10		144	153		CAL Calendar Name
-	RTDONM		A	10		154	163		JOB Date Object Name
-	TIMEST		P	4	0	164	166		ROB Start Time +

For data types A and S, this is the absolute buffer length. For numeric data types, it is the numeric digit length.

Number of decimal places.

Actual byte positions taken up by the field.

Field text (truncated to fit).

Field List

Temporary Data Model

You can use the File Field Reference panel to limit the fields shown on the record display. Enter a **V** before each field you want to include in the record display. The result is a temporary data model; it is deleted at the end of the Easy View session (see the Data Models section for information on permanent data models).

```

EVI80R                               File Field Reference                               CYBRKING
                                         7/19/07 09:00:56
File: RBAHS      Lib: JRICHARDS

Type Options, Press Enter.      Text Search: _____
U=Add to Temporary View

Name      Keys      Typ Len Dec From      To      Colhdg or Text
-----
FORMAT:  HSFMT
U HSDATE      L   10      1   10 Date in System Fmt
_ HSTIM6      P   6 0     11  14 HSTIM6
_ HSMNUM      P   9 0     15  19 Message No.
U HSVEND      A   10      20  29 Pager Service Vendor Name
_ HSTOPG      A   10      30  39 Pager Name
_ HSLSEQ      P   5 0     40  42 Log Sequence Number
_ HSLTYP      A   1       43  43 Log Type
_ HSMJMN      A   4       44  47 Major/Minor Return Code
_ HSLGTH      P   3 0     48  49 Length of Data Logged
_ HSLTX       A  256      50  305 Message Text Field
_ HSYMD       L   8       306 313 HSYMD
_ HSMDDP      A   1       314 314 Mode of Operation
_ HSCJBN      A  10       315 324 Comm Job Name
F3=Exit F6=User define F9=Print Listing F21=Command line F24=More keys
  
```

Enter a **V** to select each field for a temporary data model, and press Enter to return to the record display.

```

Rec. Length.: 334 File: RBAHS      Library: JRICHARDS  Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL  Mode.: INQUIRY
SCAN.....:  to -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 00000011293 US
*TEMP VIEW*
   Date in   Pager
   System Fmt Service Ue
11293 _ 2005-08-30 BITSTREAM
11294 _ 2005-08-30 BITSTREAM
11295 _ 2005-08-30 BITSTREAM
11296 _ 2005-08-30 BITSTREAM
11297 _ 2005-08-30 BITSTREAM
11298 _ 2005-08-30 BITSTREAM
11299 _ 2005-08-30 BITSTREAM
11300 _ 2005-08-30 BITSTREAM
11301 _ 2005-08-30 BITSTREAM
11302 _ 2005-08-30 BITSTREAM
11303 _ 2005-08-30 BITSTREAM
11304 _ 2005-08-30 BITSTREAM
11305 _ 2005-08-30 BITSTREAM
11306 _ 2005-08-30 BITSTREAM
11307 _ 2005-08-30 BITSTREAM
11308 _ 2005-08-30 BITSTREAM
F2=Previous Files F3=Exit F4=Select Mode F24=More Keys
  
```

User-Defined Fields

Easy View lets you superimpose your own field definitions on to a file. This is especially useful when the file has no DDS. You can define a field for each piece of information in the record and view the fields using spreadsheet and EZFIELD display modes. Easy View shows both the original fields and the user-defined fields, unless you use a data model that limits the fields shown. User-defined fields can also simplify scanning logic. By defining a numeric field over character data, you can scan for decimal data errors.

To create user-defined fields, press **F6** on the File Field Reference panel. Easy View displays a window you can use to define the fields. For each field, type its information and press Enter. When you are finished defining fields, press **F3** to remove the window.

Note: You can define packed and binary fields (types P and B) only over character fields (type A). Also, packed and binary fields cannot cross existing field boundaries.

Enter a unique field name and the field boundaries.

Enter the data type:
A Character
S Zoned decimal
P Packed decimal
B Binary

Enter the field length (must correspond to its boundaries), the number of decimal positions (for numeric fields), and the field text.

Create User Defined Fields

Field Name	From	Thru	Type	Len	Dec	Text
LONGTEXT	42	99	B	58		COMBINED TEXT FIELDS

Name	Keys	Typ	Len	Dec	From	To	Colhdg or Text
FORMAT: HSFMT							
— HSDATE		L	10		1	10	Date in System Fmt
— HSTIM6		P	6	0	11	14	HSTIM6
— HSMNUM		P	9	0	15	19	Message No.
— HSUEND		A	10		20	29	Pager Service Vendor Name
— HSTOPG		A	10		30	39	Pager Name
— HSLSEQ		P	5	0	40	42	Log Sequence Number
— HSLTYP		A	1		43	43	Log Type
— HSMJMN		A	4		44	47	Major/Minor Return Code
— HSLGTH		P	3	0	48	49	Length of Data Logged
— HSLTX		A	256		50	305	Message Text Field
— HSYMD		L	8		306	313	HSYMD
— HSMDOP		A	1		314	314	Mode of Operation
— HSCJBN		A	10		315	324	Comm Job Name

F3=Exit F6=User define F9=Print listing F21=Command line F24=More keys

Press **F6** to display the window for creating user-defined fields.

Field List

Copying User-Defined Fields

You can copy the fields you defined for the current file to another file if the other file has the same record format. If you copy a data model to another file, you must also copy the user-defined fields used by the data model. Press **F14** to display the Copy User Defined Fields window.

Note: If you copy user-defined fields to a file with an incompatible format, the field definitions will not match the data in the file. Using field definitions to display and change the file can produce undesirable results.

To delete a user-defined field, enter a 4 before the field.

```

EV180R                               File Field Reference                               CYBRKING
                                         10/14/97 12:18:01
File: RBTROB   Lib: ROBOTLIB

Type Options, Press Enter.           Text Search: _____
4=Delete User Defined Field           U=Add to Temporary View

Name      Keys      Typ  Len Dec From  To  Colhdg or Text
-----
FORMAT:  ROBOT
- KYTIME          A    12      1   12  ROB Job setup      A:RBT
- JOBNAM          A    10      13  22  ROB Job number
- PROGDS          A    25      23  47  ROB Job name
- LONGTEXT        A    58      42  99  ROB Job Description text
- JOBTYP          A     1      48  48  ROB Job Type
- JOBDAT          P     7     0   49  52  ROB Job date
- DTCODE          A     1      53  53  ROB Date Code
- LOGGRP          A    10      54  63  ROB Application   LOGGRP
- PROFIL          A    10      64  73  ROB User Profile
- RBNOTE          A    60      74 133  ROB Notes
- RTAPP I         A    10     134 143  ROB Application Exit Grp
- CALNAM          A    10     144 153  CAL Calendar Name
- RTDONM          A    10     154 163  JOB Date Object Name
F3=Exit  F6=User define  F9=Print listing  F21=Command line  F24=More keys
  
```

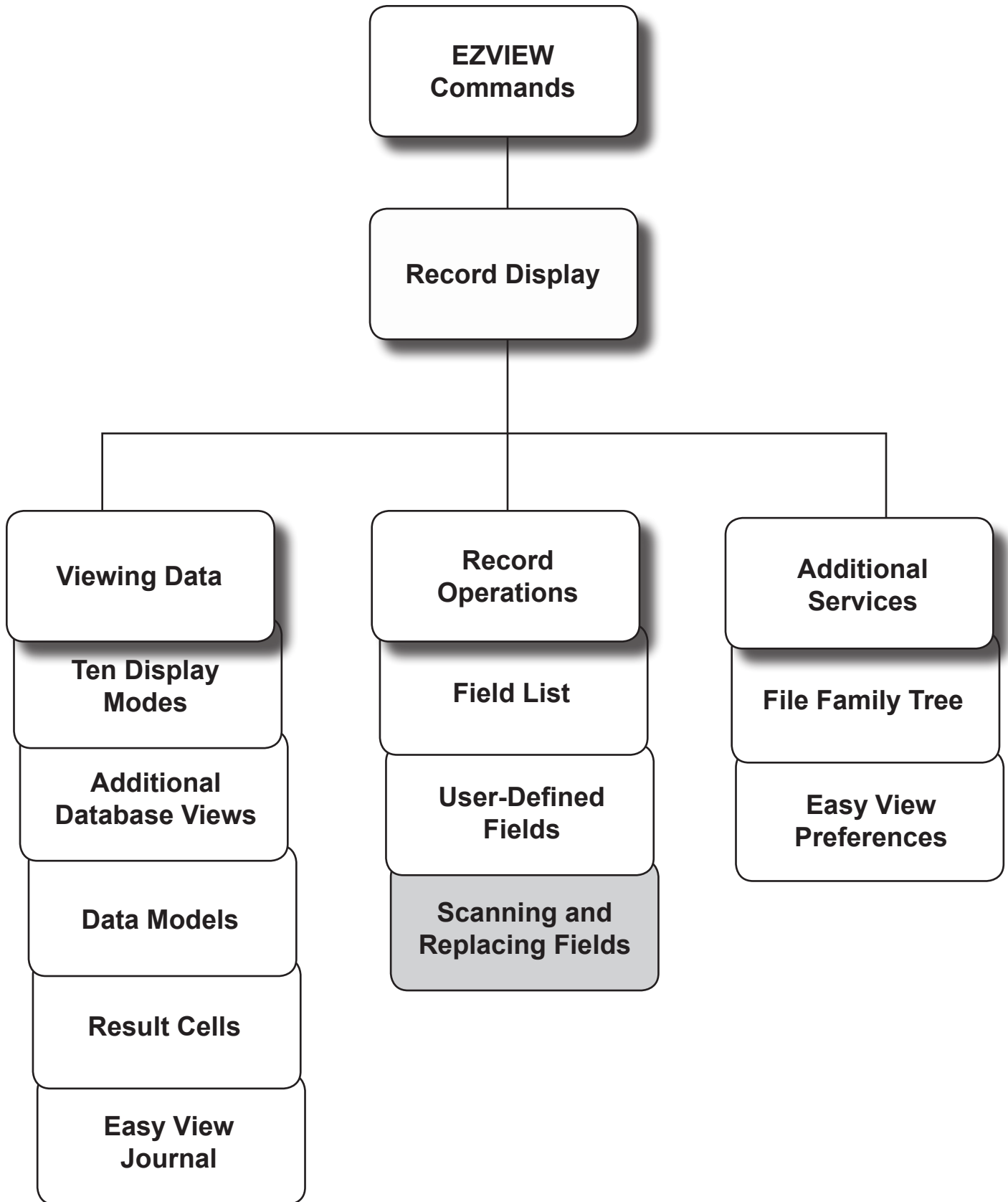
Press **F14** to display this window.

Enter the file and library to which the user-defined DDS is to be copied. Press Enter to perform the copy.

```

Copy User Defined Fields
-----
Copy from:  File: RBTROB   Library: ROBOTLIB
Copy to:    File: RBTROB1  Library: ROBOTLIB
F3=Exit

Name      Keys      Typ  Len Dec From  To  Colhdg or Text
-----
FORMAT:  ROBOT
- KYTIME          A    12      1   12  ROB Job setup      A:RBT
- JOBNAM          A    10      13  22  ROB Job number
- PROGDS          A    25      23  47  ROB Job name
- LONGTEXT        A    58      42  99  ROB Job Description text
- JOBTYP          A     1      48  48  ROB Job Type
- JOBDAT          P     7     0   49  52  ROB Job date
- DTCODE          A     1      53  53  ROB Date Code
- LOGGRP          A    10      54  63  ROB Application   LOGGRP
- PROFIL          A    10      64  73  ROB User Profile
- RBNOTE          A    60      74 133  ROB Notes
- RTAPP I         A    10     134 143  ROB Application Exit Grp
- CALNAM          A    10     144 153  CAL Calendar Name
- RTDONM          A    10     154 163  JOB Date Object Name
  
```



■ Scanning Overview

Easy View can search the file for values, including null values. You tell Easy View where to look and what to look for, and it searches the file, forward or backward, until it finds it.

■ Scan Field

The location in the record at which Easy View looks for a value is called a scan field, which can be a DDS field, any sequence of bytes, or a hex code. When Easy View reads a scan field, it compares what it finds to what you told it to look for. You specify a relational operator and a value. Easy View performs the comparison and, if it is true, selects the record.

■ Scan Comparison

To have the scan comparison differentiate between uppercase and lowercase letters, the display attribute for Uppercase Entry Only must set to N. This is shown by an LS indicator on the right of the record display heading. If the indicator is US for uppercase entry only, you can change it by pressing **F13** to display the Display Attributes window and entering N for the first option.

■ Simple Scan or Extended Scan

Easy View can do simple scans or extended scans. A simple scan uses just one scan field and can be done from the record display. To specify display conditions and multiple scan fields, use the Extended Scan Parameters screen.

For simple and extended scans, Easy View does not start scanning until you press **F7** to scan forward, or **F8** to scan backward from the current file position.

■ Scan and Replace or Scan and Delete

You also can specify a replace or delete operation on the Extended Scan Parameters screen. You can replace a field with another field, or replace a field value (including a null value) with another value or the results of a calculation. Unless you request no verification, Easy View displays each record for confirmation before replacing or deleting it.

■ Mass Replace or Delete

The replace or delete operation can be performed on all records in the file, if you wish, with or without verification. On each verification screen, you can choose to confirm the replacement, skip the record but continue the scan, or cancel the scan.

You can submit the mass replace or mass delete operation to batch. But no verification is possible, so be sure to have a current backup of the file before you submit the operation.

Single Scan Field

You can search the file for a field value without leaving the record display. Specify the field, a relational operator, and a value for the field, and press **F7** to scan forward, or **F8** to scan backward. Easy View displays the first record it finds that satisfies the comparison. You can specify the scan field by its boundaries, DDS name, or hex code, using the standard hex format.

- You can use the asterisk wild card character (*) in the search data with the *CT (contains) operand. For example, *CT 9**90 finds the string **9**, followed by *any two characters*, followed by **90**, such as 91090 and 93090. *CT MAR* finds the string MAR, such as MARSHA, MARY, and MARVIN.
- You can use *CT to scan for a string anywhere in the specified field or from/thru range.
- You can use the *NL operand to scan for null values in fields within files.

Enter either the starting and ending byte positions of the scan field, the hex code in the standard hex code format, or the DDS name.

The field can be up to 40 characters.

If you leave the to field blank when entering byte positions, the scan field length is the same as the search data length you enter.

When entering hex data, you must enter data in the from and to fields.

Enter the comparison method for the scan:

- *EQ** Equal to (default)
- *NE** Not equal to
- *LT** Less than
- *GT** Greater than
- *LE** Less than or equal to
- *GE** Greater than or equal to
- *CT** Contains (see the note)
- *DE** Decimal data error (leave scan data blank)
- *NL** Null field (leave scan data blank).

Enter the data to be used in the scan comparison.

Leave this field blank when you use the *DE or *NL operators.

The scan differentiates between uppercase and lowercase only when lowercase data entry is allowed (the LS indicator).

```

Rec. Length.: 106 File: RBHF1 Library: ROBOTUPS Member: RBHF1
Rec. Count.: 150 Access: *KEY Mode.: INQUIRY
SCAN..... to -OR- HFATM2 *EQ 1800
Field number: 1 field/text locate:
Lower Limits: 900927180000000SYSTEM US

```

	HFURCD	HFATYP	System	Power Failure	Power Failure	HFATM2	Date of Action	Da Ac
12	0		SYSTEM	NELPSYS	900927	92790	1800	900927 92

F7=Scan Forward F8=Scan Backwards F9=Services F24=More Keys

Press **F7** to scan forward or **F8** to scan backward. Press **F16** to return to normal record view

Easy View displays the first record it finds that meets the comparison. To find the next record that meets the comparison, press **F7** or **8**.

Extended Scan

Press **F14** to display the Extended Scan Parameters panel. Use this panel to:

- Specify multiple scan criteria
- Do a scan and replace or scan and delete (use *NL in the operand field to scan for and replace null values in fields within files)
- Limit the Easy View displays to a subset of the records in the file
- Print the selected record.

If you perform a certain scan regularly, you can store your scan criteria in a data model to use again. See the section Data Models.

In the Occurrence to Display/Change Field:
 Enter **1** to display or replace one record at a time.
 Press **F7** or **8** to display the next record selected.

 Enter **2** to display records one screen at a time.
 Press **F7** or **8** to display the next screen of records.

Enter the number of records to be read by a scan. Press **F7** or **8** to read another block of records. By limiting the records read, you can stop a long file scan when it is clear that a record will not be found. You can change the default using the CHGSYS command (described later).

EU320R CYBRKING

Extended Scan Parameters 10/14/97 7:53:39

Display Conditions:
 Occurrence to Display/Change: 1 (1=Next; 2=All)
 Number of Records to Read: 500
 Process as Subset: N
 Print Selected Record (Y/N): N

Scan Options,
A=And O=Or R=Replace D=Delete

Option	Field Name	From	Thru	Operand	Scan Data
A	HFATM2			*EQ	0
O	HFATYP			*EQ	SNDBKD
A	HFATM2			*EQ	0
R	HFATYP			*EQ	PAGERD
O	HFATM2			*EQ	0
A	HFATYP			*EQ	EXECTD
-					
-					
-					
-					
-					
-					

+

F3=Exit F7=Scan forward F8=Scan backward F24=More Keys

Enter **Y** to print each record found. Printed records that are the result of the same scan operation are placed in the same spool file.

In the Process as Subset field:
 Enter **N** if the scan criteria are for the current operation only.
 Enter **Y** if the scan criteria will establish a subset for subsequent displays in the session. For best performance, a subset should include most of the records in the file. Enter **2** for the Occurrence to Display/Change option. Otherwise, only one subset record is shown at a time.

Specify *NL in the operand field to scan for and replace null values in fields within files.

Multiple Scan Criteria

When you specify multiple scan criteria, the criteria must be connected by logical operators (AND or OR). AND takes precedence over OR—Easy View does the AND comparisons first. For example, the panel shown here specifies that the HFATM2 field must be 0 and the HFATYP field must be SNDBKD, PAGERD, or EXECTD. Because AND takes precedence over OR, this must be specified as 0 and SNDBKD, or 0 and PAGERD, or 0 and EXECTD.

You can select a scan field from the field list by entering a ? in the Field Name blank. Each scan criteria must follow the same rules described earlier for a single scan field.

In the Option field:

- Enter **A** to connect the criteria with a logical AND.
- Enter **O** to connect the criteria with a logical OR.

Note: AND takes precedence over OR.

In the Field Name blank:

- Enter a **?** to display the field list.
- Enter a **1** by a field in the list to return the field name to this panel. The field can be up to 40 characters.

EV320R Extended Scan Parameters CVBRKING
10/14/97 7:53:39

Display Conditions:
 Occurrence to Display/Change: 1 (1=Next; 2=All)
 Number of Records to Read: 500
 Process as Subset: N
 Print Selected Record (Y/N): N

Scan Options,
A=And O=Or R=Replace D=Delete

Option	Field Name	From	Thru	Operand	Scan Data
A	HFATM2			*EQ	0
	HFATYP			*EQ	SNDBKD
O	HFATM2			*EQ	0
A	HFATYP			*EQ	PAGERD
O	HFATM2			*EQ	0
A	HFATYP			*EQ	EXECTD
-					
-					
-					
-					
-					
-					

F3=Exit F7=Scan forward F8=Scan backward F24=More keys

The scan begins from the current file position. Press **F7** to begin a scan forward towards the end of the file. Press **F8** to begin a scan backward towards the beginning of the file.

Clears all scan criteria from the list.

Retrieves previous scan criteria.

F6=Clear Subfile F9=Retrieve Scan Data F12=Previous F24=More keys

Scan and Delete or Scan and Replace

You can delete a record by typing **D** in the Option field following the scan criteria (each scan criteria must follow the same rules described earlier for a single scan field). Leave the other fields on that line blank. You can replace a field value with a specific value, a value from another field, or a calculation cell. To replace a field value with:

- A specific value, type an **R** in the Option field following the scan criteria. On the same line, specify the replacement criteria. You can specify multiple replacement fields for the scan. Leave the Operand field blank. When replacing a field value, numerics are converted (use a decimal point), and character values are left-justified.
- Another field value, enter `=fieldname` in the Scan Data field. Numeric fields are placed starting with the rightmost byte and truncated on the left if needed.
- A calculation cell value, enter `=cellname` in the Scan Data field. This allows you to perform calculations on fields in the file, such as raising prices by 5% for a certain product class, without writing a program.

Notes:

- In the Scan Data field, the equal sign (=) is reserved to search for fields and calculation cells. To search for the equal sign, specify the position in the From and Thru fields, and the hex code for the equal sign (x 7E) in the Scan Data field.
- Scan and replace is much faster using *ARRIVAL access. To select *ARRIVAL, press **F13**.

Use these fields to replace part of a field value. For example, **From 2 Thru 3** indicates that positions 2 through 3 of the target field will be replaced.

Enter **1** to display each record for verification before it is replaced or deleted. To display the next record selected, press **F7** or **8**.
Enter **2** to display records one screen full at a time. To display the next screen of selected records, press **F7** or **8**. Records are replaced all at once (up to the scan limit).

```

EV320R                               Extended Scan Parameters                               CYBRKING
                                     10/20/97  9:56:35

Display Conditions:
Occurrence to Display/Change: 1 (1=Next; 2=All)
Number of Records to Read:    500
Process as Subset:           N
Print Selected Record (Y/N): N

Scan Options,
A=And  O=Or  R=Replace  D=Delete

Option Field Name From Thru  Operand Scan Data
A  HFATM2                *EQ  0
O  HFATYP                *EQ  SNDBDK
R  HFATM2                *EQ  0
O  HFATYP                *EQ  PAGERD
R  HFATM2                *EQ  0
O  HFATYP                *EQ  EXECTD
R  HFATM2                *EQ  =TOTAL
-
-
-
F3=Exit  F7=Scan forward  F8=Scan backward  F24=More Keys
    
```

To begin the scan, press **F7** to scan forward or **F8** to scan backward.

The value in the HFATM2 field of the selected records will be replaced by the value in the calculation cell named Total."

Verify Replace or Delete

Verification of records replaced or deleted is controlled by a default value (see Tailoring Easy View). If the default is not to require verification, Easy View lets you determine whether you want to verify each change. If you select verification, Easy View displays the before and after versions of each record and allows you to confirm each operation.

```

Scan and Replace Confirmation

Your EZVIEW profile is setup to allow Mass
Update/Delete of Data Base Records.

To Proceed with Mass Update/Delete Press F10

To VERIFY all resulting changes Press ENTER

F3=Exit Scan
    
```

If the default value is to not require verification, Easy View displays this window.

Press **F10** to replace or delete the records without verifying each one.

Press Enter to verify each record.

Press **F3** to cancel the operation.

```

Record format, relative record number, and leftmost byte position.
Rec. Length.  2576  F 1e: RBUFF1  _ cncpl: ROBOTUPS  Name:  RBUFF1
Rcc. Count .   30                Recode:  KEY      Mod:    REPLACE
Format . . . . IFMT
RFN . . . . . 1:
Wincon . . . . 28
. . . . . 33 . . . . 40 . . . . 50 . . . . 60 . . . . 70 . . . . 80 . . . .
After
..).)..P).).|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.
32 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
10791277 29 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
ff
Before
.....P).)..P).).|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.
30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
30791277 29 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
    
```

* * * Review & Press Enter to Update * * *

F3-Exi. F6-Hex Table F12-Prev Lns

Field after and before replacement. Arrows point to the characters that have changed.

Press **F3** to cancel the scan.

Press F6 to see a table listing the character represented by each hexadecimal code.

Press **F12** to skip this record and continue the scan.

Press Enter to confirm the operation on this record and continue the scan.

Submitting a Scan to Batch

Scanning a large file can take a long time and have an adverse effect on other users. So when you do a scan and replace or scan and delete, Easy View lets you submit the process to batch. When you submit a scan to batch, you cannot verify the replacements or deletions performed by the scan, so backup the file before submitting the scan to batch.

Prerequisites for a Batch Scan

- The Easy View default for verifying scan and replaces (option **13**) must be N (see Tailoring Easy View).
- On the Extended Scan screen, the Occurrence to Display/Change option must be 2 (for All).
- You must specify either that the selected records be deleted or that a field value in the records be replaced.

To submit the scan, press **F22**. On the window displayed, you can change the job description used and check that a current file backup exists. Press Enter to submit the scan to batch or **F12** to cancel the submit. A scan submitted to batch always scans the entire file; it ignores the file position and the Number of Records to Read entry.

The screenshot shows a terminal window titled "Submit Replace/Delete to Batch". It contains the following text:

```

File:  RBUNF1      Library:  ROBOTUPS      Member:  RBUNF1

Job description:  QBATCH      library:  *LIBL      (Change if needed)
Use the save/change dates to ensure that you have a suitable backup.
Last saved:  91/01/11  08:16:51      Last changed:  90/11/27  11:01:59
To proceed with the job, press Enter.  Press F12 to cancel.
    
```

Below this text is a table with the following columns: Option, Field Name, From, Thru, Operand, and Scan Data.

Option	Field Name	From	Thru	Operand	Scan Data
	HFATM2			*EQ	0
A	HFATYP			*EQ	SNOBKD
Q	HFATM2			*EQ	0
A	HFATYP			*EQ	PAGERD
Q	HFATM2			*EQ	0
A	HFATYP			*EQ	EXECTD
B	HFATM2				1200
-					
-					
-					

At the bottom of the window, it says: **F21=Command Line F22=Submit scan F24=More keys**

Callouts from the image:

- Enter the job description to be used and its library. (points to Job description: QBATCH library: *LIBL)
- Last time the file was backed up. (points to Last saved: 91/01/11 08:16:51)
- Last time the file was changed. (points to Last changed: 90/11/27 11:01:59)
- Press F22 to display this window. (points to F22=Submit scan)
- Press Enter to submit to batch or press F12 to cancel the submit. (points to To proceed with the job, press Enter. Press F12 to cancel.)

Using the EZSCAN Command

You can define and save a scan definition to use later. The Run Scan Definition (EZSCAN) command uses this saved scan definition to scan and replace from a command line or in batch. This section describes how to create a scan definition and use the EZSCAN command.

To run your scan definition, enter the EZSCAN command on a command line, in a Robot SCHEDULE job, or a CL program. Enter the command as follows:

EZSCAN FILEGROUP(*group_name*) **FILE**(*library/filename*) **SCNDFN**(*scan_definition_name*)

You also can enter the EZSCAN command and press **F4** to display the command prompt panel.

The screenshot shows the 'Run Scan Definition (EZSCAN)' command prompt panel. It contains the following text and fields:

```

Run Scan Definition (EZSCAN)
Type choices, press Enter
File Group: .....
File Name: .....
Library Name: ..... *LIBL
Member Name: ..... *FIRST
Scan Definition: .....
Character value
Name, *PRU, *SELECT
Name, *LIBL
Character value
Character value
    
```

Four callout boxes point to specific fields:

- The name of the journal group where the scan definition is saved.** (points to File Group)
- The name of the file you want to scan.** (points to File Name)
- The name of the library where the file is located.** (points to Library Name)
- The name of the saved scan definition.** (points to Scan Definition)

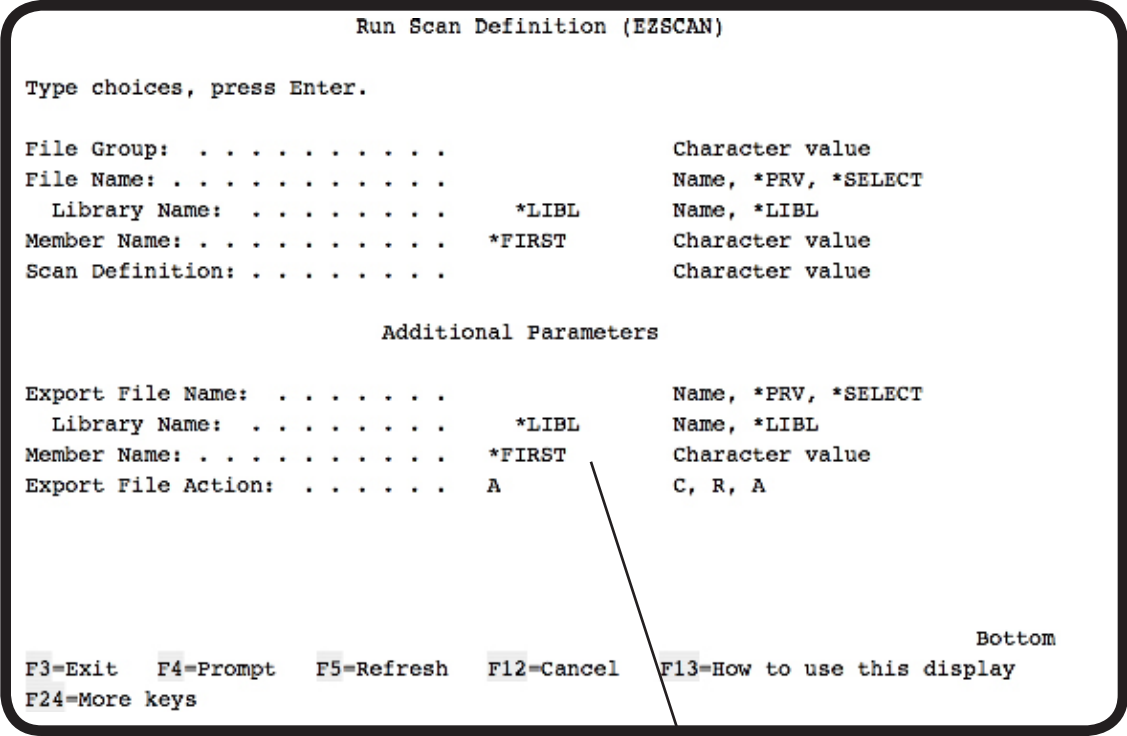
At the bottom of the panel, there are function key instructions:

```

Bottom
F3=Exit   F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Using the EZSCAN Command

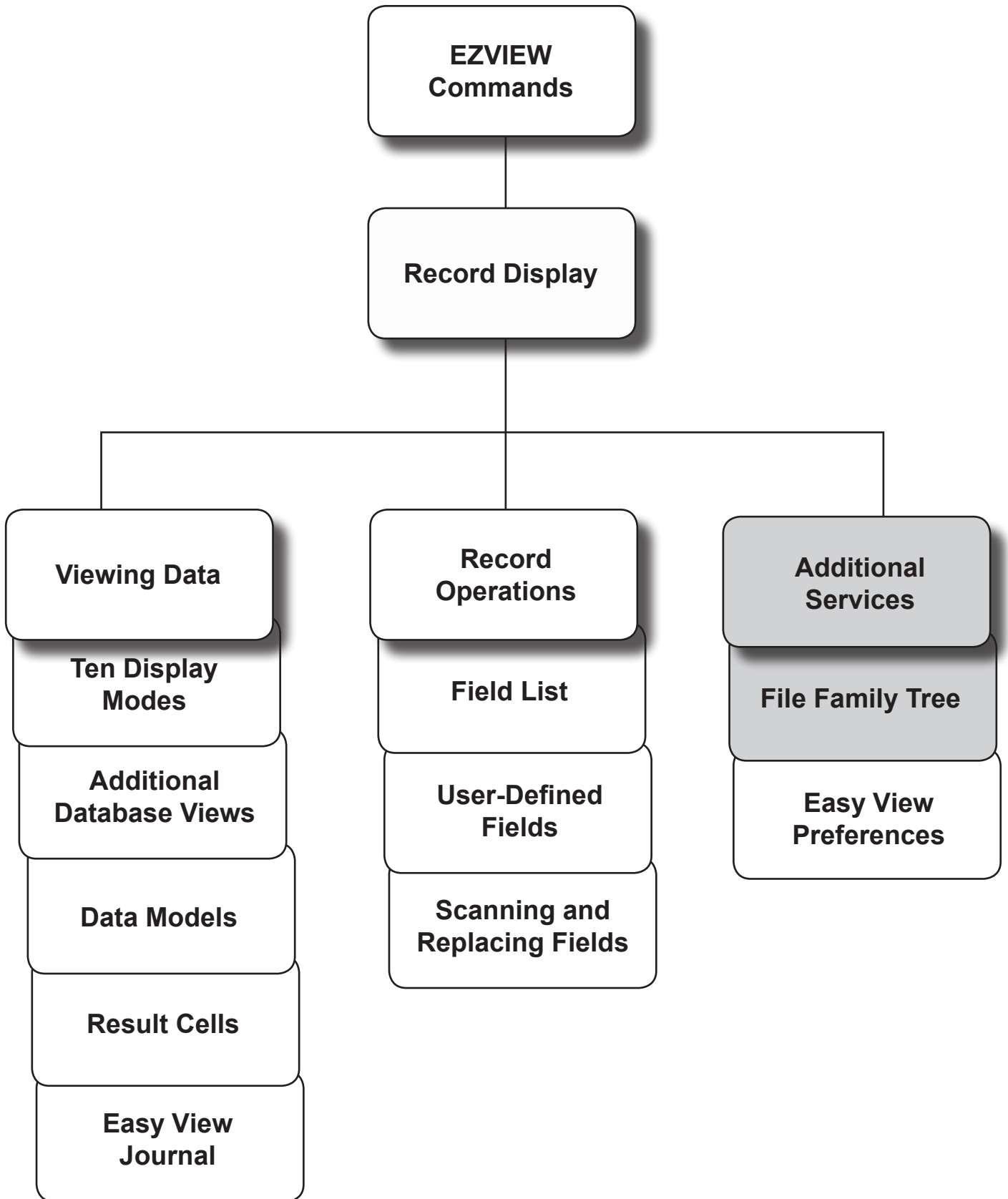
You can also export the results of a scan to a new or existing file. Enter **EZSCAN** in a command line and press **F4** to display the Run Scan Definition (EZSCAN) panel. Press **F10** to display additional parameters.



Enter file, library, and member information. Then enter an option for the file action. The records that meet the scan criteria will be used to:

- C** Create a new file containing the selected records.
- R** Replace a record in an existing file. This option clears the existing file of all records
- A** Add this record to an existing file. Adds records from scan results to existing files.

Notes:



Additional Services

Additional Services Menu

By pressing **F9**, you can display a menu of additional Easy View services. To select an option, enter its number.

Note: The options not described here are discussed later in this manual: option **6** in Easy View Preferences, option **8** in Data Models, and option **9** in Generating DDS.

Enter **1** to display the file's Family Tree (shown on the next page).

Enter **2** to display the File Field Reference panel.
Enter **3** to print the field list on the default printer.

This is the Easy View release level.

Enter **4** to display the Work With Object Locks panel for the file.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
SCAN..... to -OR- *EQ
Field number: .....
Record nbr.: 000 R08M001061215 US
                Da
                Sq
                e HSLSEQ
Additional Services
11293 - 20 : 1. Family Tree. : 0
11294 - 20 : 2. Display Field List. : 1
11295 - 20 : 3. Print Field List. : 2
11296 - 20 : 4. Display Current Locks for File. : 3
11297 - 20 : 5. Display Authority for File. : 4
11298 - 20 : 6. Change Tailoring for Current User. : 5
11299 - 20 : 7. Retrieve File Descriptions. : 6
11300 - 20 : 8. Maintain/Create Composite Models. : 7
11301 - 20 : 9. Display Object Description : 8
11302 - 20 : 10. Export to Delimited Text File : 9
11303 - 20 : : 10
11304 - 20 : Select Desired Option: _ : 11
11305 - 20 : : 12
11306 - 20 : F3=Exit : 13
11307 - 20 : : 14
11308 - 20 : : 15
Keyed access not allowed for requested file.
    
```

Enter **5** to display the Display Object Authority panel for the file.

Enter **9** to see the Display Object Description panel.

Enter **10** to export the currently viewed file to a delimited text file that can be loaded directly into a spreadsheet application.

Enter **7** to remove the stored DDS specifications and retrieve new DDS specifications from the file. (See the section, Storing Retrieved DDS.)

Family Tree

To determine which files are related to a file, you can display the family tree of the file. Select option **1** on the Additional Services Menu or option **3** on the Easy View menu. From outside EasyView, enter the EZTREE command followed by the file name.

The family tree of a physical file lists its logical files. For a logical file, the family tree of the parent physical file displays. To see all other files related by a common logical, press **F4**.

Enter the option you want to perform on the file:

- 1 Displays the file.
- 2 Displays select/omit rules if the file is a logical.
- 3 Displays join rules if the file is a logical.

Record count/deleted records and file size.

```

EV330R                               Family Tree for: ROBOTLIB/RBTROB                               CYBRKING
                                                                              10/14/97 12:30:52

Type options, press Enter.
1=EZVIEW  2=Select/omit data  3=Join file data

Lib/Physical
Lib/Logical
ROBOTLIB/RBTROB
ROBOTLIB/RBTROB1
ROBOTLIB/RBTROB10
ROBOTLIB/RBTROB11
ROBOTLIB/RBTROB12
ROBOTLIB/RBTROB14
ROBOTLIB/RBTROB15
ROBOTLIB/RBTROB16
ROBOTLIB/RBTROB17
ROBOTLIB/RBTROB18
ROBOTLIB/RBTROB20
ROBOTLIB/RBTROB21
ROBOTLIB/RBTROB22
ROBOTLIB/RBTROB23
ROBOTLIB/RBTROB24

Key Information (F5=fold/truncate)
*ARRIVAL (330/15) (204.8K) Job control records
ACTION TIMEST (330)
SCHOUR JOBNAM KYTIME (EMPTY) path by Schedule overr
LOGGRP JOBNAM KYTIME (330) path by Application code
TIMEST (7) Selects jobs to be run.
JOBNAM KYTIME (EMPTY)
RTDONM (330) Path by Date Object Name
RTOPNM (EMPTY) Path by OPAL Procedure name
RTENUN (330) Robot records by Environment Name
LSTNME (EMPTY) Robot records by library list Name
ABEGCD (330) UNIQUE ROB Job setup A:RBT Updat
ABEGCD (330) UNIQUE ROB Job setup A:RBT Retri
ABBBTX ABABNB (330) ROB Job setup A:RBT Seq b
ABABST (EMPTY) ROB Job setup A:RBT Seq by Gro
ABEGCD (330) ROB Job setup A:RBT RBT203 RT +

F3=Exit F4=All Related Files F5=Fold Truncate F11=View 2
    
```

Press **F4** to see all other files related by a common logical.

A descending key is displayed in reverse image.

Press **F5** to switch between a truncated display and a folded display that displays up to 234 characters for each file.

Press **F11** to switch between the key information and member text.

Additional Services

Exporting Records to Delimited Files

You can export the currently viewed file to an integrated file system (IFS) directory in a column-delimited (CSV) format. You can use any spreadsheet program to view file information. Press **F9** to display the Additional Services Menu and enter option **10**. You can also use the EZCPYTOCSV command to display the Copy File to CSV screen.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access: *ARATUAL Mode: INQUIRY
SCAN..... to -OR- *EQ
Field number:
Record nbr.: 000 : R08M000000000 : US
Da : Additional Services
Sy : e HSLSEQ
11293 _ 20 : 1. Family Tree. : 0
11294 _ 20 : 2. Display Field List. : 1
11295 _ 20 : 3. Print Field List. : 2
11296 _ 20 : 4. Display Current Locks for File. : 3
11297 _ 20 : 5. Display Authority for File. : 4
11298 _ 20 : 6. Change Preferences for Current User. : 5
11299 _ 20 : 7. Retrieve File Descriptions. : 6
11300 _ 20 : 8. Maintain/Create Composite Models. : 7
11301 _ 20 : 9. Display Object Description : 8
11302 _ 20 : 10. Export to Delimited Text File : 9
11303 _ 20 : : 10
11304 _ 20 : Select Desired Option: 10 : 11
11305 _ 20 : : 12
11306 _ 20 : F3=Exit : 13
11307 _ 20 : : 14
11308 _ 20 : : 15
F8=Scan Backwards F9=Services F10=Toggle View F24=More Keys
  
```

Press **F9** to display the Additional Services Menu and enter **10** to display the Copy File to CSV screen.

```

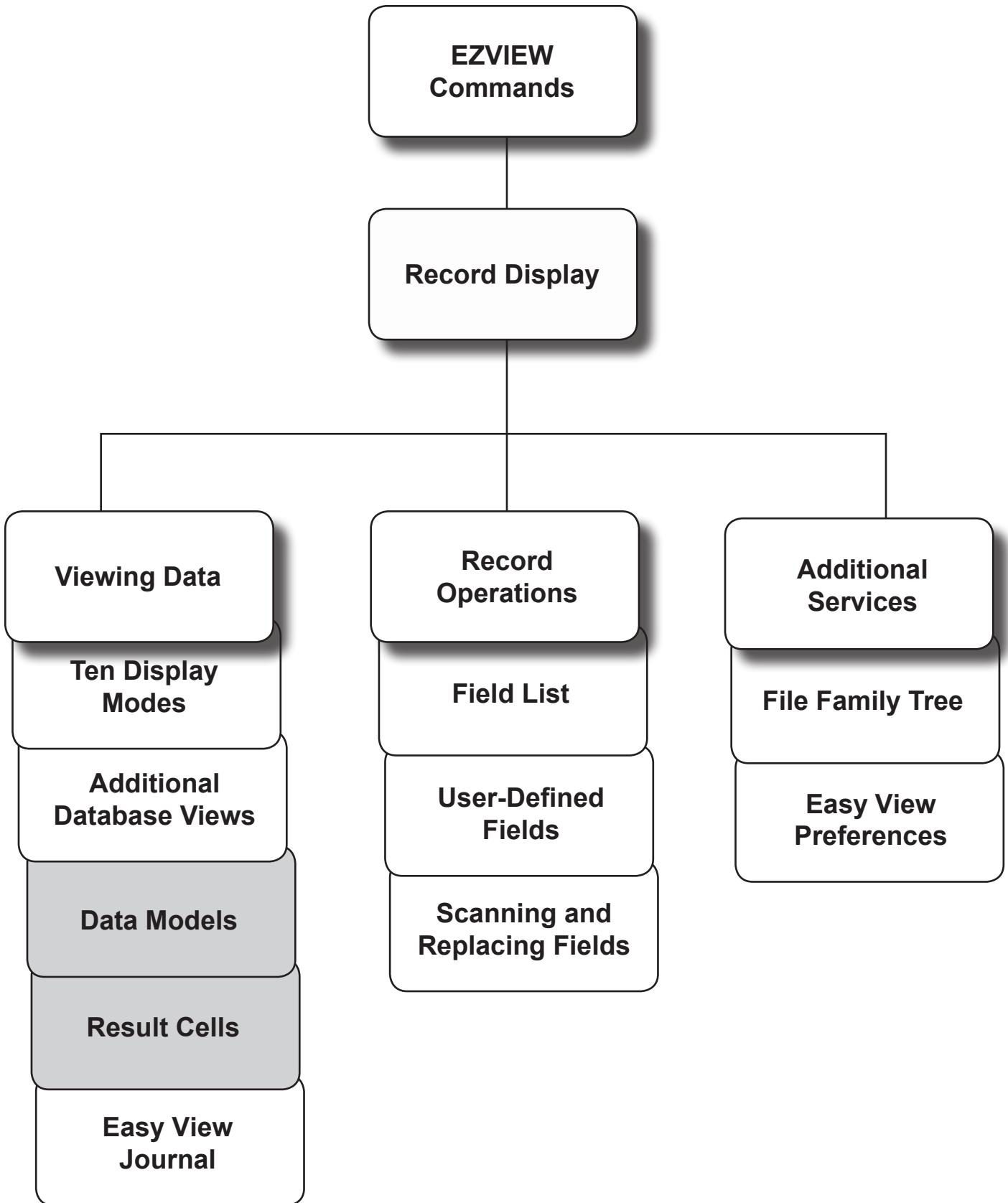
COPY FILE TO CSU (EZCPYTOCSV)

Type choices, press Enter.

From File Name: > RBAHS Name
Library Name: > JRICHARDS Name, *LIBL
Member Name: > RBAHS Name, *FIRST
To File: _____

Replace/Add To file Records: *ADD *ADD, *REPLACE
Add Column Headings: *NONE *NONE, *TEXT, *ALTNAME...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys Bottom
  
```

■ Data Models Replace Display Programs

Data models are the Easy View replacement for display programs. Instead of coding a display program to define how records are presented and which operations can be performed, just define a data model for the file in Easy View. The file user can enter the EZVIEWMOD command to display and work with the file through the Easy View model.

Data models are stored permanently so they can be used at any time. To be able to change models inside Easy View, you must start the session with the EZVIEW command. When this command is used, all available data models can be selected for display or editing, and new data models can be defined. If you start a session with the EZVIEWMOD command, only the selected data model can be used—it cannot be changed.

■ Data Model Capabilities

Data models can:

- Omit fields from the display.
- Include user-defined fields.
- Rearrange the field order.
- Define the authorities of the users of the model, including update, add, delete, and replicate authorities.
- Define which fields may be updated.
- Define new field text to be used in the model.
- Define result cells, fields that show the results of specified arithmetic operations on numeric fields in the record.
- Store a set of scan criteria. The model user can use the criteria to search for records, or to limit the records displayed to a subset selected by the criteria.

■ Copy Data Models to Other Files

A data model defined for one file can be copied for use with another file that has the same record format. If the data model includes user-defined fields, you must copy the user-defined fields separately.

After copying the data model, you can modify it for the other file. Display the other file using the EZVIEW command and select the copied data model from the Model Maintenance Selection Screen.

Creating and Maintaining Data Models

To create a new data model or work with the data models defined for the file, display the Model Maintenance Selection Screen. Press **F9** to display the Additional Services Menu and enter option **8**.

```

Rec. Length.: 334 File: RBAHS Library: JRICHARDS Member: RBAHS
Rec. Count.: 165273 Access.: *ARRIVAL Mode.: INQUIRY
RRN.....: 186846 Format.: HSFMT
Scan.....: _____
Field/text locate : R08M001061215
Record nbr... 000 : Additional Services : US
:
_ Date in System : 1. Family Tree.
HSTIM6 : 2. Display Field List.
Message No. : 3. Print Field List.
Pager Service U : 4. Display Current Locks for File.
Pager Name : 5. Display Authority for File.
Log Sequence N : 6. Change Tailoring for Current User.
Log Type : 7. Retrieve File Descriptions.
Major/Minor Ret : 8. Maintain/Create Composite Models.
Length of Data : 9. Display Object Description
Message Text Fi : 10. Export to Delimited Text File : host 192.168
.1.50 closed.
:
: Select Desired Option: 08
:
HSYMD : F3=Exit
Mode of Operati :
:
F8=Scan Backwards F9=Services F10=Toggle View F24=More Keys
    
```

Press **F9** to display the Additional Services Menu and enter **8** to display the Model Maintenance Selection Screen.

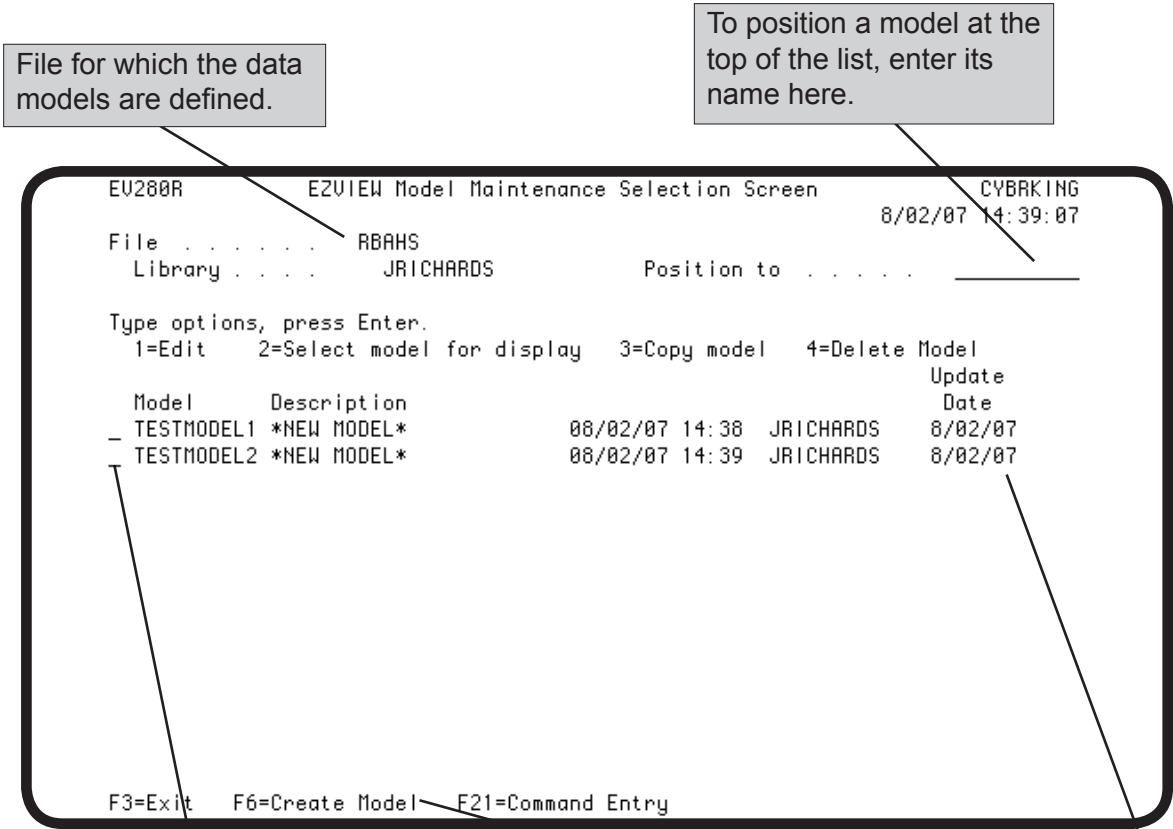
```

EU280R          EZVIEW Model Maintenance Selection Screen          CYBRKING
                                                           8/02/07 14:39:07
File . . . . . RBAHS
Library . . . . JRICHARDS          Position to . . . . .
:
Type options, press Enter.
1=Edit  2=Select model for display  3=Copy model  4=Delete Model
:
Model      Description                                Update
_ TESTMODEL1 *NEW MODEL*                            08/02/07 14:38 JRICHARDS 8/02/07
_ TESTMODEL2 *NEW MODEL*                            08/02/07 14:39 JRICHARDS 8/02/07
:
F3=Exit  F6=Create Model  F21=Command Entry
    
```

Model Maintenance Selection Screen

The Model Maintenance Selection Screen lists the data models defined for the currently displayed file. From this screen, you can:

- Create a new model
- Edit, copy, or delete an existing model
- Select a model to use to display the file.



Enter an option here to apply to the model:

- 1 Edit the model.
- 2 Display the file using this model.
- 3 Copy the model to another file or library. (If the model uses any user-defined fields, you must copy their definitions to the other file.)
- 4 Delete the model.

Press **F6** to create a new model. Easy View asks you to name the file and displays the Easy View Model Setup Screen, shown on the following page.

Date the model was last changed.

Model Setup Screen

If you select a model for editing or press **F6** to create a new model on the Model Maintenance Selection Screen, Easy View displays the Model Setup Screen. On this screen, you select the fields for the model and assign model authorities.

File for which the model is defined and the model name.

Default description for the model. Type over it to enter your own description.

To find a field not displayed, enter at least part of its field name or text.

```

EU250R          EASY VIEW MODEL SETUP SCREEN          CVBRKING
File:          RBAHS                                08/02/07 14:42:11
              JRICHARDS
Model:        TESTMODEL1 Text: *NEW MODEL*          08/02/07 14:38 JRICHARDS
Update: Y Add: Y Delete: Y Replicate: Y Field/Text Search: _____
Seq Up Name   Keys      Typ Len Dec Colhdg or Text
-----
              FORMAT: HSFMT
              ----- -UNUSED FIELDS- -----
  Y HSDATE          A   10   Date in System Fmt
  Y HSTIM6         P    6   HSTIM6
  Y HSMNUM         P    9   Message No.
  Y HSUEND         A   10   Pager Service Vendor Name
  Y HSTOPG         A   10   Pager Name
  Y HSLSEQ         P    5   Log Sequence Number
  Y HSLTYP         A    1   Log Type
  Y HSMJMN         A    4   Major/Minor Return Code
  Y HSLGTH         P    3   Length of Data Logged
  Y HSLTX          A  256   Message Text Field
  Y HSYMD          A    8   HSYMD
  Y HSMDOP         A    1   Mode of Operation
    
```

F3=Exit

F6=Add Cell

F7=Last

F8=First

F9=Print Model

F24=More Keys

Select a field for the model by entering its sequence number. The sequence numbers specify the order in which the fields are displayed.

Use **F7** and **F8** to display fields:

- Press **F7** to display the last field in the record.
- Press **F8** to display the first field in the record.

The list includes user-defined fields.

Model Setup Screen

Each time you press Enter, Easy View re-sorts the fields. The fields selected for the model appear in the top list in sequence number order; the unselected fields remain in the bottom list. To change the field order for the model, change the sequence numbers of the fields. To remove a field from the model, enter blanks for its sequence number.

Consider carefully the operations the model should allow. You set the authorities to add, change, delete, and replicate records using the model. If a user is allowed to add or replicate records, the model should include the key fields for the file; otherwise, the new records will have duplicate key values.

Indicates whether the data in the field can be changed, or just displayed:

- Enter **Y** if the model should let the data in this field be changed.
- Enter **N** if the model should display the field, but not let its data be changed.

Model authorities:

- Y** The model lets the user perform the indicated Easy View record operation.
- N** The model does not let the user perform the operation.

```

EU250R          EASY VIEW MODEL SETUP SCREEN          CYBARKING
File:  RBAHS                      8/02/07 14:46:28
      JRICHARDS
Model:  TESTMODEL1  Text: *NEW MODEL*  08/02/07 14:38  JRICHARDS
Update: Y Add: Y Delete: Y Replicate: Y  Field/Text Search:
Seq Up Name  Keys  Typ Len Dec ColHdg or Text
-----
      FORMAT: HSFMT
  10 Y HSDATE          A  10  Date in System Fmt
  20 Y HSTIM6          P   6  HSTIM6
  30 Y HSUEND          A  10  Pager Service Vendor Name
  40 Y HSMNUM          P   9  Message No.

      -----UNUSED FIELDS-----
      FORMAT: HSFMT
      Y HSTOPG          A  10  Pager Name
      Y HSLSEQ          P   5  Log Sequence Number
      Y HSLTYP          A   1  Log Type
      Y HSMJMN          A   4  Major/Minor Return Code
      Y HSLGTH          P   3  Length of Data Logged
      Y HSLTX           A 256  Message Text Field
      +

F3=Exit  F6=Add Cell  F7=Last  F8=First  F9=Print Model  F24=More Keys
    
```

Press **F6** to display the Result Cell Definition screen.

Press **F9** to print a description of the model.

Result Cell Definition

You can define one or more result cells as part of a data model. A result cell is a user-defined field whose value is calculated by Easy View from the values of two or more numeric fields. A result cell resides only in a data model.

The screenshot shows the 'EZVIEW RESULT CELL DEFINITION' screen. It includes fields for 'Name of result field', 'Text for this cell', 'Result length', and 'Decimal positions'. A calculation 'HSMNUM+HSLGTH' is entered. Below is a table of valid entries with columns for 'Seq', 'Name', 'Typ', 'Len', 'Dec', 'Colhdg', and 'or Text'. At the bottom, there are function key instructions: 'F3=Exit', 'F11=Delete Cell', 'F12=Previous', and 'F21=Command line'. A callout box lists operators: parentheses, addition, subtraction, multiplication, and division.

Enter text to describe the field.

Enter a unique name for the field.

Enter the length of the result field (up to 15). Make it just long enough to hold the expected result.

Enter the number of decimal places for the result (up to 9).

The record format whose numeric fields are listed. You can change it if the file has multiple record formats.

Type the calculation for the result cell value here.

Press F11 to delete the cell definition.

Press Enter to create or re-create the cell definition.

Operators you can use in the calculation:

- parentheses ()
- addition (+)
- subtraction (-)
- multiplication (*)
- division (/)

Numeric fields that can be used in the calculation. The fields included in the model are listed first, followed by the fields not included in the model.

Result Cell Definition

After you press **F12** to return to the Model Setup Screen, the result cell appears in the list of fields for the data model. You can change the location of the result cell in the field order by changing its sequence number.

You can change the result cell sequence number.

You cannot update a result cell.

Indicates that the field is a result cell.

```

EU250R/          EASY VIEW MODEL SETUP SCREEN          CVBRKING
File:   RBAHS                      8/02/07 14:57:21
       JRICHARDS
Model:  TESTMODEL1 Text: *NEW MODEL*          08/02/07 14:38 JRICHARDS
Update: Y Add: Y Delete: Y Replicate: Y Field/Text Search: _____
Seq Up Name      Keys      Typ Len Dec Colhdg or Text
-----
          FORMAT: HSFMT
10 N  CELL01          *      5
20 Y HSDATE          A   10   Date in System Fmt
30 Y HSTIM6          P    6   HSTIM6
40 Y HSVEND          A   10   Pager Service Vendor Name
50 Y HSMNUM          P    9   Message No.

          ----- -UNUSED FIELDS- -----
          FORMAT: HSFMT
_____ Y HSTOPG          A   10   Pager Name
_____ Y HSLSEQ          P    5   Log Sequence Number
_____ Y HSLTYP          A    1   Log Type
_____ Y HSMJMN          A    4   Major/Minor Return Code
_____ Y HSLGTH          P    3   Length of Data Logged          +

F11=Change Cell  F12=Previous  F14=Scan Setup  F24=More Keys
    
```

To change a result cell, position the cursor before the cell and press **F11**.

Copying Data Models

To use a data model to display another file, you must copy the data model to the other file. The other file must have the same fields used by the model. If the data model includes user-defined fields, you must also copy the user-defined field definitions to the other file.

To copy a data model from one file to another, display the Model Maintenance Selection Screen and enter a **3** in the option field before the model to be copied. To copy user-defined fields used by the model, display the File Field Reference screen and press **F14**.

Enter **3** to display the Copy Model window for this model.

Enter the name and text of the copied model in the new file.

Enter the file to which the model is copied and its library. You can copy a model to a different library.

```

EU280R      EZVIEW Model Maintenance Selection Screen      CYBRKING
                                                    10:52:42
-----
F :                      COPY MODEL
:
: Model      File      Library
T : Copy from: TESTMODEL1  RBAHS      JRICHARDS
: Copy to:   TESTMODEL3  RBAHS      JRICHARDS
: New text:  *NEW MODEL*  08/02/07 14:38 JRICHARDS  te
:
3 :
:
- TESTMODEL2 *NEW MODEL*  08/02/07 14:39 JRICHARDS  8/02/07

F3=Exit  F6=Create Model  F21=Command Entry
    
```

Press **F14** on the File Field Reference screen to copy the user-defined fields.

```

Copy User Defined Fields
-----
Copy from:  RBTROB      ROBOTLIB
Copy to:    RBTROB1    ROBOTLIB
F3=Exit
-----
Name      Keys      Typ  Len Dec From  To  Colhdg or Text
-----
FORMAT:  ROBOT
- KYTIME      A      12      1      12  ROB Job setup      A:RBT
- JOBNAM      A      10      13      22  ROB Job number
- PROGDS      A      25      23      47  ROB Job Description text
- LONGTEXT    A      58      42      99  COMBINED TEXT FIELDS
- JOBTYP      A      1      48      48  ROB Job Type
- JOBDAT      P      7      0      49  52  ROB Job date
- DTCODE      A      1      53      53  ROB Date Code
- LOGGRP      A      10      54      63  ROB Application  LOGGRP
- PROFIL      A      10      64      73  ROB User Profile
- RBNOTE      A      60      74      133  ROB Notes
- RTAPP1      A      10      134     143  ROB Application Exit Grp
- CALNAM      A      10      144     153  CAL Calendar Name
- RTDOMM      A      10      154     163  JOB Date Object Name      +
F12=Previous  F14=Copy user fields  F24=More Keys
    
```

EZVIEWMOD Command

When you use the EZVIEW command to start Easy View, you can select the data model used from the Display Attributes window or the Model Maintenance Selection Screen. When you use the EZVIEWMOD command to start Easy View, you are limited to the constraints of the data model you specified on the command. You cannot change to another file, member, or model. If you specify *LIST on the EZVIEWMOD command, you are shown a list of models to select from.

Note: In an EZVIEWMOD session, the Additional Services Menu (F9) and Additional Database Views window (F18) are not available.

The screenshot shows the 'Easy View a file Model (EZVIEWMOD)' command interface. It includes fields for File Name, Library Name, Model Name, Member Name, and Access Method. There are also 'Additional Parameters' for Initial Display Mode, RRN, Format, Member, and Upper or Lower Case. A list of models is shown with their characteristics. Callout boxes provide detailed instructions for each field and parameter.

Callout 1 (top left): Enter the name of the file to be displayed and the library in which it exists.

Callout 2 (top right): Enter the name of the data model to be used in displaying the file or enter *LIST to display the Model Selection Screen.

Callout 3 (bottom left): Press F10 to display the additional parameters, which let you specify display options.

Callout 4 (bottom center): Enter an optional member name. The default is *FIRST.

Callout 5 (bottom right): Enter the order in which the records are to be displayed:

- *KEY for key value order
- *ARRIVAL for relative record number order.

Interface Content:

```

Easy View a file Model (EZVIEWMOD)

Type choices, press Enter.

File Name: . . . . . > RBTR0B      Name
Library Name: . . . . . *LIBL      Name, *LIBL
Model Name: . . . . . *LIST      Character value, *LIST
Member Name: . . . . .            Character value
Access Method: . . . . .            *KEY, *ARRIVAL

Additional Parameters

Initial Display Mode . . . . . *USRDF1 *USRDF1, 1, 2, 3, 4, 5, 6...
RRN, Format, Member . . . . . *USRDF1 *USRDF1, *RRN, *FORMAT...
Upper or Lower Case . . . . . *USRDF1 *USRDF1, *UPPER, *LOWER

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

Bottom
    
```

Model Selection Panel

If you specify *LIST on the EZVIEWMOD command, the Model Selection panel displays, listing the data models defined for the file. You can also display this panel in an EZVIEW session by entering a ? in the Model blank on the Display Attributes window (F13).

On the Model Selection panel, you can list the fields used by a data model and select a data model to use to display the file.

Enter **1** to select the model to use for displaying records. Enter **2** to list the fields included in the model.

File and its library for which the data models are defined.

Indicates whether the model lets you perform the indicated Easy View record operation:

- UPD** Changing records.
- ADD** Adding new records.
- DEL** Deleting records.
- RPL** Replicating records.

```

EU250R                               EZVIEW Model Selection                               HELPSYS
File...: ABTROB                        8/29/94 13:17:09
Library: ABTPRD6

Type options, press Enter.
1=Select For Display  2=Display Model Fields

Model      Description                               08/29/94 13:12  SHERYL
- MODEL1   *NEW MODEL*
- MODEL2   Save Time

U  A  D  R
P  B  E  P
D  D  L  L
Y  Y  Y  Y
Y  Y  Y  Y

F3=Exit  F21=Command Line
    
```

Model Display Screen

From the data model record display you can display the model description by pressing **F22**.

Indicates that a data model is in use.

```

Rec. Length.: 622 File: RBTR0B Library: RBTPRD6 Member: RBTR0B
Rec. Count.: 302 Access.: *KEY Mode.: INQUIRY
SCAN..... to -OR- *EO
Field number: 1 field/text locate:
Lower Limits: 00000000101 US
*DATA MODEL*
  Job Number  TIMEST  SAVTIM
  1 - 00000000101 1710 1710
  2 - 00000000104 1900 0
  4 - 00000000502 1700 0
  6 - 00000000529 400 0
  7 - 00000000834 100 0
  8 - 00000000871 800 0
  9 - 00000000926 1800 0
 11 - 00000000945 935 0
 13 - 00000000964 1400 0
 15 - 00000001166 1800 1800
 17 - 00000001222 0 0
 18 - 00000001248 1100 0
 19 - 00000001249 800 0
 20 - 00000001250 930 0
 21 - 00000001293 2300 2300
 22 - 00000001541 5 0
F21=Command Line F22=Show Model Description F24=More Keys
    
```

Press **F22** to see the description of the model in use.

Press **F17** to toggle between Data Model view and normal record view.

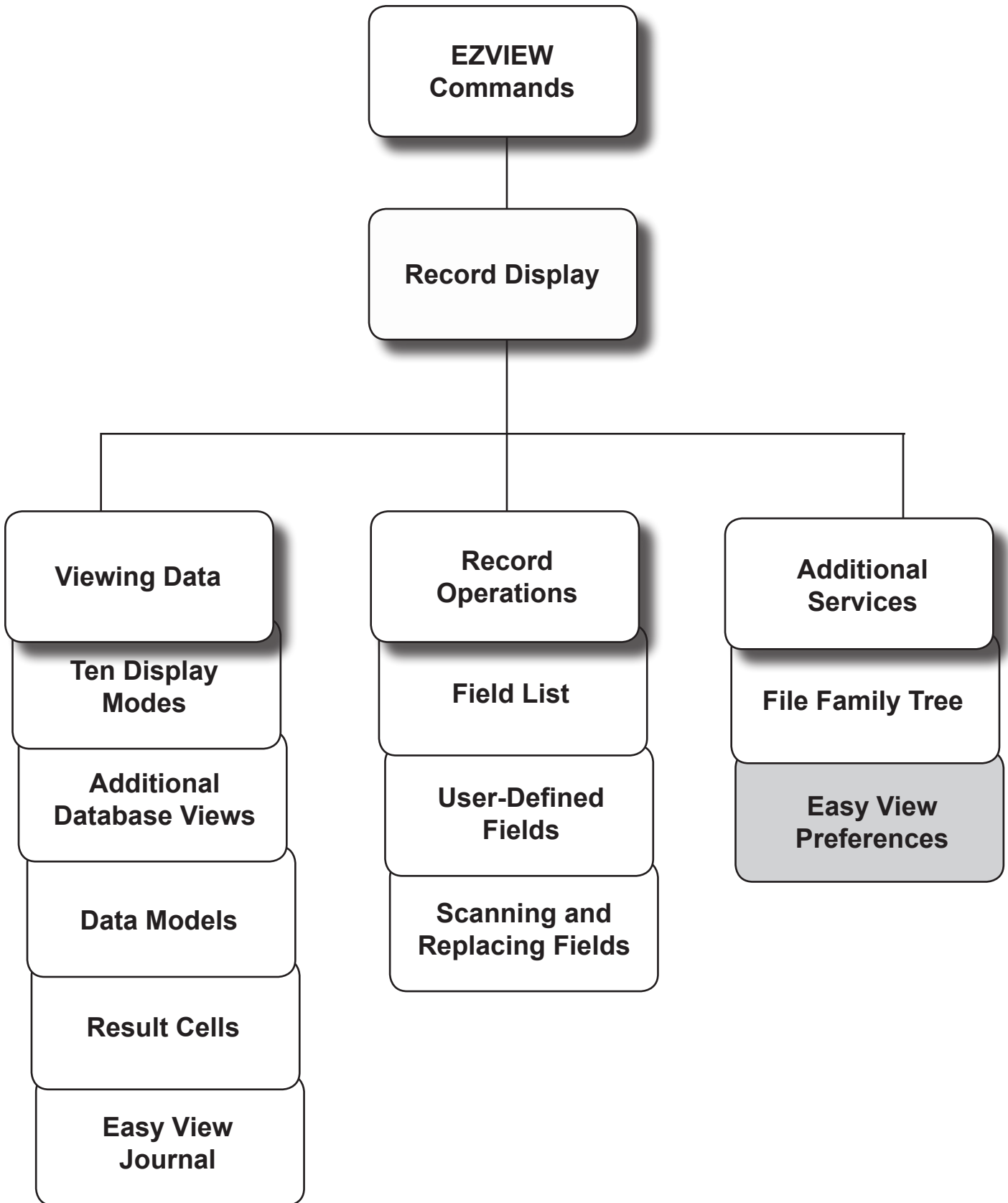
Model and field authorities.

```

10/31/94 9:57:16 EZVIEW Model Display Screen
File...: RBTR0B
Library: RBTPRD6
Model...: MODEL1 *NEW MODEL* 10/31/94 09:47 SHERYL
Add Allowed: Y Update Allowed: Y Delete Allowed: Y Repl. Allowed: Y
Field Name Field Description Format UPD
KYTIME Job Number ROBOT Y
TIMEST Start Time ROBOT Y
SAVTIM Save Time ROBOT Y
F3=Exit F12=Previous
    
```

Fields used by the model.

Notes:



■ Overview

Easy View lets you adjust default values for the needs of your site.

■ Changing Default Values without CHGSYS

You can change the following five default values at any time without CHGSYS authority:

- Number of records scanned before interrupt
- Default output queue
- Display of relative record number, record format, or member name
- Lowercase data entry as default
- Default display mode

Press **F9** to display the Additional Services menu and select option **6**.

■ Changing Default Values with CHGSYS

You can change the rest of EASY VIEW's default values by using the CHGSYS command outside Easy View, or by selecting option **1** from the Easy View Setup menu. Only the security officer can use the CHGSYS command unless they grant authority. The security officer can grant CHGSYS authority to a user by entering the following command:

GRTOBJAUT OBJ(CHGSYS) USER(USER) AUT(*USE)

Global default values for all Easy View users are in the default record *SYSTEM, which cannot be deleted. Default records for individual user profiles can be defined using the CHGSYS command. If a user profile has an individual default record defined, those values override the global default values for that user.

Easy View Setup (EZSETUP) Menu

The Easy View Setup menu has commands for changing system or user defaults and working with data description files. To display the menu, select option **8** from the Easy View menu, or enter the GO EZSETUP command from outside Easy View. You can add or remove options from this menu, based on your security needs. This menu is in source file EZVMENU, and source member EZSETUP, in the EZVIEW library. Use PDM or SELL to edit EZVMENU.

```

EZSETUP                Easy View Setup (EZSETUP)

Select one of the following:

  Commands
  1.  Change System defaults or user preferences           CHGSYS
  2.  Clear out all EZVIEW Data Description Files         CLNDDS
  3.  Load EZVIEW DATA Description Files                 EZLOAD
  4.  Clear EZVIEW Library (DDS or user settings)        CLREZVIEW
  5.  Purge Audit File                                   PRGAUDIT

  Other Related Menus
  6.  EZVIEW Main Menu Commands                          EZVIEW

Selection or command
===> _____
_____
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=System main menu
  
```

Enter **1** to display the Easy View Profile Preferences panel.

Use these commands on the IBM i command line to start the corresponding function.

- The CHGSYS command is described in Easy View Preferences.
- The CLNDDS, EZLOAD, and CLREZVIEW commands are described in Storing Retrieved DDS.
- The PRGAUDIT command is described in Deleting the Audit File.

Easy View Preferences

EZVIEW Profile Preferences Panel

The Easy View Profile Preferences panel allows you to add and delete profiles, display and change profiles, and determine whether you want the profile to save retrieved DDS in the Easy View database.

Note: The *SYSTEM profile cannot be deleted.

If you have CHGSYS authority, the panel displays when you do one of the following:

- Outside of Easy View you enter the CHGSYS command, the GO EZSETUP command to display the Easy View Setup menu, and select **option 1**.
- Inside Easy View, you select **option 8** from the Easy View menu to display the Easy View Setup panel and select **option 1**.

Enter an option for the profile:
2 Change the profile.
4 Delete the profile.
5 Display the profile.

This default value appears only for *SYSTEM. Enter **N** if you do not want Easy View to store retrieved DDS—Easy View must retrieve the DDS each time it displays the file (see Storing Retrieved DDS). Easy View checks that the stored DDS is up-to-date and, if not, retrieves the DDS from the file.

```

EU051R              Ezview Profile Preferences              CVBRKING
                                                            7/27/07 11:45:52

Save Retrieved DDS in EZVIEW Data Base: Y (Y/N)  Position To: _____

Type options, press Enter.
2=Change Profile  4=Delete Profile  5=Display Profile

Profile      Profile Description      Reference Profile
-----
 *SYSTEM     EZVIEW DEFAULTS - ** CANNOT DELETE THIS RECORD **  *NONE
- ALAN       Al Baxter                    *NONE
- ARMAND     Armand Cohen                 *NONE
- BEN        Ben Peter                    *NONE
- BILLB      Bill Broeckert               *NONE
- BJOHNSON   Brian Johnson                *NONE
- BLULLING   Brandy Lulling               *NONE
- BRENDA     Brenda Peroutka              *NONE
- CHUCK      Chuck Losinski               *NONE
- DAN        Dan Schultz                  *NONE
- DARLENE    Darlene Alipenta             *NONE
- DAVEJ      Dave Johnson                  *NONE
- DCOOK      Dan Cook                      *NONE

F3=Exit      F5=Redisplay      F6=Create New User      More...
  
```

Press **F3** to cancel the operation.

Press **F6** to add a new profile.

You can enter the name of a profile to which the panel will be positioned.

Operational Defaults

The EZVIEW operational defaults panel lists the current default values for the profile. The panel displays when you do either of the following:

- Select **option 6** from the Additional Services menu. Your profile displays and you can change only the first five options on the panel.
- Enter the CHGSYS command and select the profile you want to display. You can change any default values and the global default values (profile *SYSTEM). The global default values apply if specific default values have not been defined for a user profile.

Change the values you want and press Enter to record your changes. Press **F3** to exit the panel without saving any changes.

Profile to which the default values apply. *SYSTEM values apply to all profiles that do not have default values defined for them.

Number of records Easy View scans at a time. You can change this value for a particular scan on the Extended Scan panel.

```

EU051R                      Ezview Profile Preferences                      CYBRKING
                                                                    47
EZVIEW operational defaults for: *SYSTEM
Reference Group: *NONE

1. No. of records to scan before interrupt:(1-9999999) 1500
2. Default Output Queue for Print Key: QPRINT
3. RRN, Format or Member Name as default? (N, F, M) N
4. Lower shift as default? (Y/N) N
5. Default Display Mode (Press Help for List) 1
6. Ability to change records in files? (Y/N) Y
7. Ability to delete records from files? (Y/N) Y
8. Ability to add records to files? (Y/N) Y
9. Verify Changes to files? (Y/N) Y
10. Verify Deletes to files? (Y/N) Y
11. Write audit record for all DB changes? (Y/N) N
12. Allow Command Entry Line? (Y/N) Y
13. Verify Scan and Replace? (Y/N) N
14. EZField Change Display Mode (Press Help for List) 1
15. Ability to Update Production Libraries? (Y/N) Y
16. Use Model Security? (Y/N) N

F3=Exit      F5=Redisplay      F6=Create New User
    
```

Enter the output queue to which an Easy View screen is sent when the Print key is pressed.

Enter the record information displayed: **N** for record number, **F** for record format name, or **M** for file member name. You can change this value on the Display Attributes window (**F13**).

Enter **Y** to allow both uppercase and lowercase data entry; **N** allows only uppercase (caps locked). You can change this value on the Display Attributes window (**F13**).

Display Defaults

You can set the default values that specify the default output queue, the default run attributes, the initial display mode, and whether a command line can be displayed.

Enter the number of the initial display mode used in a session. Press the Help key or **F1** to see the list of display modes.

Enter **N** to prevent the user from changing existing records in files, including scan and replace operations.

```

EU051R                               Ezview Profile Preferences                               CVBRKING
                                                                                               47
-----
EZVIEW operational defaults for: *SYSTEM
Reference Group: *NONE
-----
1. No. of records to scan before interrupt:(1-9999999)   1500
2. Default Output Queue for Print Key:                   QPRINT
3. RRN, Format or Member Name as default? (N, F, M)     N
4. Lower shift as default? (Y/N)                        N
2 : 5. Default Display Mode (Press Help for List)         1
- : 6. Ability to change records in files? (Y/N)         Y
- : 7. Ability to delete records from files? (Y/N)      Y
- : 8. Ability to add records to files? (Y/N)           Y
- : 9. Verify Changes to files? (Y/N)                  Y
- : 10. Verify Deletes to files? (Y/N)                 Y
- : 11. Write audit record for all DB changes? (Y/N)    N
- : 12. Allow Command Entry Line? (Y/N)                Y
- : 13. Verify Scan and Replace? (Y/N)                 N
- : 14. EZField Change Display Mode (Press Help for List) 1
- : 15. Ability to Update Production Libraries? (Y/N)   Y
- : 16. Use Model Security? (Y/N)                      N
-----
F3=Exit   F5=Redisplay   F6=Create New User
    
```

Enter **N** to prevent the user from deleting records from files, including scan and delete operations.

Enter **N** to prevent the user from adding new records or replicating existing records.

Enter **N** to request that no verification be required for change operations.

Record Operation Defaults

Two types of record operation default values are provided: defaults that allow you to prevent the user profile from performing record operations and defaults that indicate whether verification screens should be presented.

Enter **Y** to have Easy View write a record for each file change in an audit file (see the section, Audit File).

Enter **N** to request that no verification be required for deletions.

Specify the information that displays when updating a record in EZFIELD mode:

- 1 Field text (the default)
- 2 Field text and name
- 3 Field text, name, and attributes

```

EU051R          Ezview Profile Preferences          CYBRKING
                                                    47
-----
EZVIEW operational defaults for: *SYSTEM
Reference Group: *NONE
-----
1. No. of records to scan before interrupt:(1-9999999)  1500
2. Default Output Queue for Print Key:                  QPRINT
3. RRN, Format or Member Name as default?  (N, F, M)    N
4. Lower shift as default?                        (Y/N)    N
2 5. Default Display Mode      (Press Help for List)    1
-----
6. Ability to change records in files?             (Y/N)    Y
7. Ability to delete records from files?          (Y/N)    Y
8. Ability to add records to files?                (Y/N)    Y
9. Verify Changes to files?                       (Y/N)    Y
10. Verify Deletes to files?                      (Y/N)    Y
11. Write audit record for all DB changes?        (Y/N)    N
12. Allow Command Entry Line?                    (Y/N)    Y
13. Verify Scan and Replace?                      (Y/N)    N
14. EZField Change Display Mode  (Press Help for List)  1
15. Ability to Update Production Libraries?       (Y/N)    Y
16. Use Model Security?                           (Y/N)    N
-----
F3=Exit      F5=Redisplay      F6=Create New User
    
```

To be able to update files in production libraries, enter **Y**. If you enter **N**, only files in test libraries can be updated.

Enter **N** to prevent the user from entering system commands within Easy View.

Enter **Y** to request verification for each record selected by a scan and replace, or scan and delete operation. The default, **N**, requests verification only at the beginning of the scan (**N** is required for submitting a scan to batch.)

If set to **Y**, the Model Security settings override the normal settings for this user.

Easy View Preferences

Audit File

As the security officer, you can direct Easy View to record every file change it makes in an audit file. To request that changes made by a specific user be recorded, enter **Y** for **option 11** on the operational defaults panel for that user profile. Or, you could enter **Y** for **option 11** on the operational defaults panel for *SYSTEM and then exempt a specific user by entering **N** for **option 11** on the user's defaults panel.

The audit file Easy View uses is EZVIEW/EVPAUDT. The screen on this page shows the record format for the audit file. You can view the audit file at any time using Easy View, or print it from the Easy View menu. To make the record data in the audit records easier to read, you may want to add user-defined fields to format the data.

Note: Use the PRGAUDIT command to purge audit information that is no longer needed. See Deleting the Audit File in this section.

```

EU180R                               File Field Reference                               CYBRKING
                                         8/01/07 09:54:54

File: EVPAUDT   Lib: EZVIEW

Type Options, Press Enter.           Text Search: _____
  U=Add to Temporary View

Name      Keys      Typ  Len Dec From   To  Colhdg or Text
-----
FORMAT:  DSPADT
_ DATE          S      8  0    1    8  AUDIT DATE
_ TIME          S      6  0    9   14  AUDIT TIME
_ CONT          A      1          15   15  L=LAST C=CONTINUE
_ ACTION        A      1          16   16  A=ADD B=BEFORE C=AFTER D=DELET
_ JOBID         A     10          17   26  JOB NAME
_ USER          A     10          27   36  USER NAME
_ JOBNUM        S      6  0    37   42  JOB NUMBER
_ FILE          A     10          43   52  FILE NAME
_ LIB           A     10          53   62  LIBRARY
_ MEMBER        A     10          63   72  MEMBER NAME
_ FORMAT        A     10          73   82  RECORD FORMAT
_ RRN           P      9  0    83   87  RELATIVE RECORD #
_ DATA         A    256          88  343  DATA
F3=Exit F6=User define F9=Print listing F21=Command line F24=More keys
  
```

- Data stored in the audit record:
- A** New record added to the file.
 - B** Record before it was changed.
 - C** Record after it was changed.
 - D** Record deleted from the file.

The first 256 bytes of record data are stored here.

If the record is longer than 256 characters, Easy View stores a **C** in this field and writes subsequent records for the remainder of the data.

Printing the Audit File

You can print the audit file by selecting **option 6** from the Easy View menu. To print the file outside Easy View, enter the PRTAUDIT (Print Ezview Audit Log) command on the IBM i command line and press **F4** to prompt the command. The Print Ezview Audit Log (PRTAUDIT) panel displays, allowing you to specify the starting and ending date and time for the entries you want to print.

You can also print audit file entries of a specific user. Press **F10** to display the Spool file user data field, where you can change the name of the spool file to which the data is sent.

To print only audit file entries created within a specific date and time range, enter the date and time criteria here.

To print only audit file entries for a specific user, enter the user ID here.

```
Print Ezview Audit Log (PRTAUDIT)

Type choices, press Enter.

Starting date and time:
  Starting date . . . . . *CURRENT   Date, *CURRENT, *BEGIN
  Starting time . . . . . *AVAIL     Time, *AVAIL
Ending date and time:
  Ending date . . . . . *CURRENT   Date, *CURRENT, *END
  Ending time . . . . . *AVAIL     Time, *AVAIL
Select for user . . . . . *ALL      Name, *ALL

Additional Parameters

Spool file user data . . . . . 'EZ-AUDIT'  Character value, *SOURCE

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

F10 displays this parameter, which lets you specify the spool file where you want the data sent.

Deleting the Audit File

You can delete old audit information from the audit file by selecting **option 5** from the Easy View Setup menu. Outside Easy View, enter the PRGAUDIT (Purge Ezview Audit Log) command on the IBM i command line and press **F4** to prompt the command. The Purge Ezview Audit Log (PRGAUDIT) panel displays, allowing you to specify the number of days to keep audit information. You can also print the information that is deleted.

Enter the number of days to keep audit information. Information older than the number of days you specify will be deleted.

To print the information that is deleted, enter ***YES** here.

```
Purge Ezview Audit Log (PRGAUDIT)
Type choices, press Enter.
Purge older than (days) . . . . . 90          0-999
Print . . . . . *NO          *NO, *YES

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys

Bottom
```


■ Easy View Can Store DDS for Faster Record Displays

If a file has DDS, Easy View uses it to display the file, but retrieving the DDS from the file takes time. Easy View gives you the option of storing a copy of the DDS for each file that Easy View displayed. Easy View stores the DDS in its own internal files. When you ask Easy View to display a file, it looks for the file's DDS in its stored DDS files and checks that the stored DDS is up-to-date. If it has not stored the DDS, or the stored DDS is out-of-date, it retrieves the DDS from the file.

To select the option to store DDS, enter the CHGSYS command for the *SYSTEM record as described in the Tailoring Easy View section. On the EZVIEW Profile Tailoring panel, enter **Y** for the option, Save Retrieved DDS in EZVIEW Database.

■ Clean Up Stored DDS with CLNDDS

If you select the Store DDS option, Easy View stores the DDS of every file it displays. It continues to store the DDS even if the file is deleted. The **CLNDDS** command removes the DDS for files that no longer exist. To process the command interactively, enter CLNDDS on the AS/400 command line. CLNDDS checks each file whose DDS Easy View has stored and removes the DDS if the file no longer exists. Because this can be a long process, we recommend that you submit the command to batch.

■ Load DDS with EZLOAD

Easy View provides another command for mass retrieval of DDS. Specify one or more libraries on the command **EZLOAD** and submit the command from Easy View by selecting **option 3** from the Setup menu. Easy View retrieves and stores the DDS for each file in the specified libraries. Again, this can be a long process, so we recommend that you submit the command to batch.

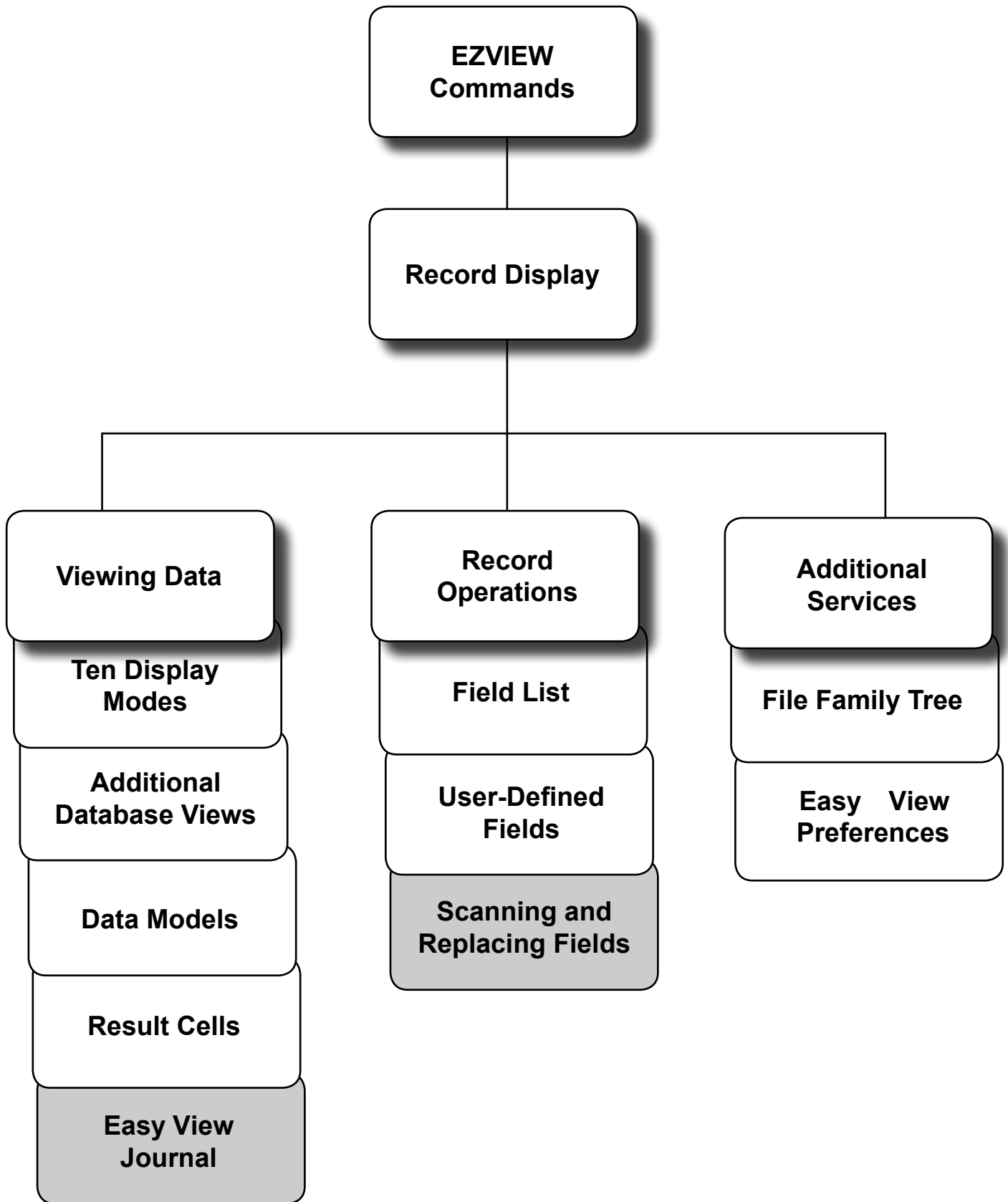
■ Clear Easy View Work Files with CLREZVIEW

The CLREZVIEW command lets you clear all or part of the Easy View work files.

- *DDSONLY clears only the stored DDS.
- *ALL clears everything, including user options, and resets Easy View to its shipped state.

You can submit the CLREZVIEW command from Easy View by selecting **option 8** from the Easy View menu and **option 4** from the Easy View Setup menu.

Notes:



■ Easy View Journal Makes Journal Entries Easy to Use

Journaling is a valuable capability on IBM i machines. By recording changes made to a database file, journal entries serve as a backup if database changes are lost. You can also use journal entries to diagnose problems in your database update programs. Journal entries can be difficult to read because the record data is saved as a string of hexadecimal codes. Easy View Journal makes journal entries easy to find and read.

■ Easy View Journal Feature

Easy View Journal is a special feature of Easy View. It reads journal entries and breaks them into the fields defined by the DDS of the database. It is easy to read the entries using EASY VIEW's formatted record displays and search for field values using its scan functions.

■ Use for Debugging, Testing, and Investigating

You can use the Easy View Journal to:

- Find errors by scanning before and after images of changed records. By viewing the time, date, workstation, and program that caused the errors, you can find their cause easily.
- Test your update programs. Journal your test files and use Easy View Journal to see the before and after images of the records you changed. Any fields updated incorrectly will be easy to spot.
- Find the source of unauthorized access to the employee salary master. Scan your journal entries for the employee number and salary amount. You can see the workstation, date, and time of access in the journal entry.
- Build Data Models to view journal entries so future testing or investigation is easy.

■ Enter Selection Criteria

The Display Journal Images panel allows you to enter the journaled file name and work file name quickly. Parameters on the panel let you limit journal entries in the work file to meet specific criteria.

■ Copies Entries to Work File

Easy View Journal copies the selected journal entries into a work file, offering these advantages:

- If your journal receiver is large, journal entry retrieval can take a long time. With a work file, you can submit the process to batch and view the journal entries later.
- Often you look at a few entries, examine your programs, and then look at a few more entries. To avoid multiple retrievals, Easy View Journal keeps the selected journal entries in the work file.

■ EZJOURNAL Command Makes It Easy to Work With Journal Entry Views

- You can retrieve several sets of journal entries, using different selection criteria, with a work file for each set.

The new EZVIEW command, EZJOURNAL (EZJRN), automates the process of viewing journal output files. It provides a user-friendly environment for you to work with journal commands, organize and customize journal entry views, and see the results. Any journal entry views that you create are saved for reuse. You can see and control the current journal status of your files easily using EZJOURNAL. You can also access any saved extended scans by using the EZJOURNAL command.

It is easy to view and access journal entries because the EZJOURNAL environment supports an organizational hierarchy of groups-files-views. By creating views you can customize the way journal entries are presented. As a result, you do not need to know any system (or user) fields in advance. You organize files into groups, and create multiple views of journal entries for each file in the group that is journaled, based on your specifications. Then you can save these defined views and use them over and over again to view records for a journaled file. It's a clean, logical, easy way to organize and work with journal entries.

■ Example

The following is an example of a journaled file with three views specified. Each view displays the records for one journal field, JOJOB, and all of the database fields in the file. The first view displays all journal entries for the file; the second view displays only journal entries resulting from updates to the file; the third view displays only journal entries resulting from deletions to the file. For more information, see the topic Work With Views in Files.

Example Group Containing Three Views

```
View 1—All Entries
Journal Field = JOJOB
Database Fields = *ALL
Type of file transactions = *ALL

View 2—Entries from updates
Journal Field = JOJOB
Database Fields = *ALL
Type of file transactions = *UPDATE

View 3—Entries from deletions
Journal Field = JOJOB
Database Fields = *ALL
Type of file transactions = *DELETE
```

EZJOURNAL Command—Work With File Groups, Journals, and Saved Scan Definitions

To work with journal groups, files, and views, enter the EZJOURNAL or EZJRN command outside Easy View, or select option 7 from the Easy View menu. The Work with Journal Groups panel displays, offering the following options:

- Work with Files in a Group (option 1)
- Change a Group Description (option 2)
- Remove a Group (option 4)
- Show Date Stamps (F5)
- Create a Group (F6)

```
EZVIEW                      EZVIEW Menu

Select one of the following:

Commands
  1. Work with Data Base File           EZVIEW
  2. Display File Layout                 EZFIELD
  3. Display File Relationships          EZTREE
  4. Work with Data Base File via MODEL  EZVIEWMOD
  5. Display Journal Entries using EZVIEW EZVIEWJRN
  6. Print Audit File                   PRTAUDIT
  7. Start Ezview Journal               EZJOURNAL

Other EZVIEW related Commands
  8. EZVIEW Setup and Initialization     EZVSETUP

Selection or command
===> 7

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
```

Use option 7 to display the Work with File Groups panel.

```
EU710R                      Work with File Groups                      CVBRKING
                                                                    7/30/07 08:28:10

Type options, press Enter.
  1=Work with files  2=Change Description  4=Remove Group

Opt Group      Description                      User
-  ROBOT       Robot files                        RBTADMIN
-  THERESA     Auto Created by Extended Scan     THERESA
*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
```

Work With Files in Groups

To work with the files from existing journal groups, enter a **1** in the Opt column next to the group you want work with and press Enter. The Work with Files in Group panel displays, offering the following options:

- Edit Views for a Files (option **1**)
- Start Journaling a File (option **2**)
- Stop Journaling a File (option **3**)
- Remove a File from a Group (option **4**)
- Ezview a File (option **5**)
- Edit Scan for File (option **6**)
- Show Date Stamps for a File (**F5**)
- Add a File to a Group (**F6**)

```

EU710R                               Work with File Groups                               CYBRKING
                                                                                          7/30/07 08:48:52

Type options, press Enter.
  1=Work with files   2=Change Description   4=Remove Group

Opt Group      Description                               User
  1  ROBOT      Robot files                                   RBTADMIN
  -  THERESA    Auto Created by Extended Scan  THERESA
*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
  
```

Enter a **1** in the Opt column to display the Work with File Groups panel.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                                          7/30/07 08:42:47

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File           6=Edit Scan for file
Opt File           Library      Description                               Journal      Library
  -  RBTCMD        ROBOTLIB
  -  RBTDEP        ROBOTLIB
  -  RBTOD         ROBOTLIB
  -  RBTROB        ROBOTLIB
*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
  
```

Work With Files in Groups—Work With Journal Views in Files

To edit a view for a file, select the file by entering a **1** in the Opt column next to the file name and pressing Enter from the Work with Files in Groups panel. The Work with Journal Views in File panel displays, listing any views that currently exist for the file and offering the following options:

- Run a View (option **1**)
- Change (Edit) a View Definition (option **2**)
- Delete a View (option **4**)
- Add a View (**F6**)

```
EU715R                               Work with Files in Group                               CALVIN
                                                                              1/05/01 15:51:56

Group: ROBOT      ROBOT files
Type options, press Enter.
  1=Edit Views for file   2=Start Journaling File   3=End Journaling File
  4=Remove File from Group 5=Ezview File

Opt File      Library      Description      Journal      Library
  1 EZHSTJOB    PAUL            EZ_JRN         PAUL
  - RBTCMD     ROBOTLIB
  - RBTDEP     ROBOTLIB
  - RBTOD      ROBOTLIB
  - RBTROB     ROBOTLIB

*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
```

No views exist for this file.

```
EU720R                               Work with Journal Views in File                               CYBRKING
                                                                              7/30/07 08:56:57

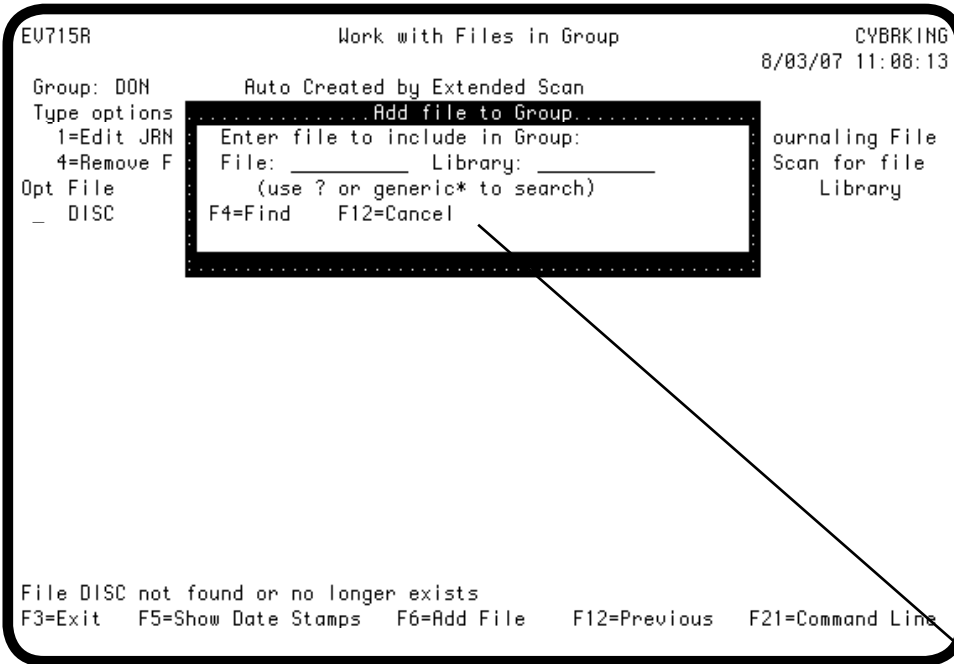
Group: ROBOT
File: RBTCMD      Library: ROBOTLIB
Type options, press Enter.
  1=Run View (F4 to prompt)  2=Change View Definition  4=Delete View

Opt View Name  Description      User
*** End of data ***

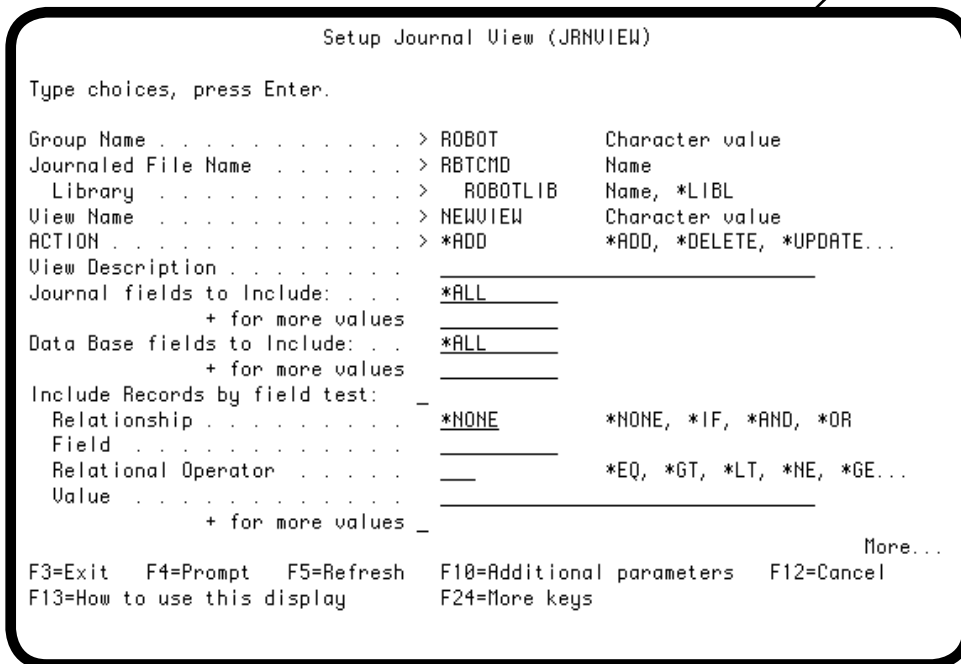
F3=Exit  F5=Show Date Stamps  F6=Add View  F12=Previous  F21=Command Line
```


Work With Journal Views in Files—Add a View

To add a view, press **F6** from the Work with Journal Views in File panel. The Add View window appears, allowing you to specify a name for the view. After you specify a name, press Enter.



Enter the file name and library, then press **F4**. The Setup Journal View panel displays.



Work With Journal Views in Files—Specify Journal Fields

You can use the Setup Journal View (JRNVIEW) panel to specify the journal fields to include in your view. Journal fields are the fields IBM creates for every journal entry.

Easy View provides a finder for the "fields to include" fields on the panel. Press **F4**, or enter a question mark (?) in the Journal fields to include field and press Enter. A finder panel appears indicating the journal fields that you can select. Select a field and press Enter to return to the Setup Journal View panel. Repeat this process for each journal field you want to include in the view.

```

Setup Journal View (JRNVIEW)

Type choices, press Enter.

Group Name . . . . . > ROBOT          Character value
Journal File Name . . . . . > EZHSTJOB      Name
  Library . . . . . > PAUL          Name, *LIBL
View Name . . . . . > TESTVIEW       Character value
ACTION . . . . . > *ADD          *ADD, *DELETE, *UPDATE...
View Description . . . . . A test view
Journal fields to Include: . . . *?
  + for more values
Data Base fields to Include: . . *ALL
  + for more values
Include Records by field test:
Relationship . . . . . *NONE      *NONE, *IF, *AND, *OR
Field . . . . .
Relational Operator . . . . .          *EQ, *GT, *LT, *NE, *GE...
Value . . . . .
  + for more values    

None...

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
  
```

Enter a ? in the Journal fields to Include field and press Enter to display the finder panel.

```

Specify Value for Parameter JNFIELD5

Type choice, press Enter.

Type . . . . . : NAME
Journal fields to Include: . . . JODATE

JOENTL          JOCTRA
JOSEQN          JOFLAG
JOCODE          JOCCID
JOENTT          JOUSPF
JODATE          JOSVNM
JOTIME          JORES
JOJOB
JOUSER
JONBR
JOPGM
JOOBJ
JOLIB
JOMBR

F3=Exit  F5=Refresh  F12=Cancel  F13=How to use this display  F24=More keys
  
```

Press **F13** for detailed instructions on how to use this panel.

Press **F24** to display other function keys.

Work With Journal Views in Files—Specify Database Fields

You can also use the Setup Journal View (JRNVIEW) panel to specify the database fields to include in your view. Database fields are the fields that are defined for the physical file.

To specify a database field to include in a view, press **F4**, or enter a question mark (?) in the Database Fields to include field and press Enter. A finder panel appears indicating the database fields that you can select. Select a field and press Enter to return to the Setup Journal View panel. Repeat this process for each database field you want to include in the view.

```

Setup Journal View (JRNVIEW)

Type choices, press Enter.

Group Name . . . . . > ROBOT          Character value
Journaled File Name . . . . . > EZHSTJOB      Name
Library . . . . . > PAUL             Name, *LIBL
View Name . . . . . > TESTVIEW         Character value
ACTION . . . . . > *ADD             *ADD, *DELETE, *UPDATE
View Description . . . . . > 'A test view'
Journal fields to Include: . . . . . > JODATE
+ for more values
Data Base fields to Include: . . . . . ?
+ for more values
Include Records by field test:
Relationship . . . . . *NONE          *NONE, *IF, *AND, *OR
Field . . . . .
Relational Operator . . . . .
Value . . . . .
+ for more values

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Enter a ? in the Data Base fields to Include field and press Enter to display the finder panel.

```

Specify Value for Parameter DBFIELDS

Type choice, press Enter.

Type . . . . . : NAME
Data Base fields to Include: . . . . . JSDATE

JJOBNO          JTRMCD
JJOBNM          JRTGST
JPROFL          JNTIME
JACCNO          JNDATE
JBILL           JTOTRS
JMODFY          JTRN#
JSBSYS          JAUX#
JSDATE          JOBTYP
JSTIME          JLNES
JEDATE          JOBPTS
JETIME          JOBGTS
JELAPS          JOBUPS
JCYCLE          JSTAT
+

F3=Exit  F5=Refresh  F12=Cancel  F13=How to use this display  F24=More keys
    
```

Work With Journal Views in Files—Specify Relationships Between Records and Fields

You can specify that certain records be included in the view if they satisfy certain relationship conditions with the field. For example, you can include every record that contains a value greater than the value in a field. For more options, press **Page Down**.

```

Setup Journal View (JRNVIEW)

Type choices, press Enter.

Group Name . . . . . > BOBGRP1      Character value
Journal File Name . . . . . > CMD8      Name
Library . . . . . > BOB             Name, *LIBL
View Name . . . . . > TESTVIEW      Character value
ACTION . . . . . > *ADD            *ADD, *DELETE, *UPDATE...
View Description . . . . . Test View
Journal fields to Include: . . . . . JODATE
+ for more values
Data Base fields to Include: . . . . . CMDKEY
+ for more values
Include Records by field test:
Relationship . . . . . *IF           *NONE, *IF, *AND, *OR
Field . . . . . JODATE
Relational Operator . . . . . *EQ     *EQ, *GT, *LT, *NE, *GE...
Value . . . . . 01/16/01
+ for more values

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Indicate the logical relationship between the record and the field: NONE, IF, AND, OR.

Indicate the field to compare the record against.

Indicate the relational operator to use to compare the two values: EQ (equal), GT (greater than), and so forth.

If you need to enter more than one field and record relationship, enter a plus sign (+) and press Enter to display an additional entry panel.

Indicate the value to test the relationship against.

Use option 8 to display the Work with Journal Groups panel.

Press **Page Down** for more options.

```

Specify More Values for Parameter INCREL

Type choices, press Enter.

Include Records by field test:
Relationship . . . . . _____ *NONE, *IF, *AND, *OR
Field . . . . . _____
Relational Operator . . . . . _____ *EQ, *GT, *LT, *NE, *GE...
Value . . . . . _____

Relationship . . . . . _____ *IF, *AND, *OR
Field . . . . . _____
Relational Operator . . . . . _____ *EQ, *GT, *LT, *NE, *GE...
Value . . . . . _____

Relationship . . . . . _____ *IF, *AND, *OR
Field . . . . . _____
Relational Operator . . . . . _____ *EQ, *GT, *LT, *NE, *GE...
Value . . . . . _____

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Work With Journal Views in Files—Specify Journal Entries to Display

When you press Page Down, the remaining options for the Setup Journal View panel are displayed. These options let you specify the following options for displaying journal entries in your view:

- The number of journal entries to display.
- The types of journal entries to display.
- Display journal entries resulting from a transaction associated with a specific job, program, or user profile.

When you are finished, press Enter to update your view.

Setup Journal View (JRVVIEW)

Type choices, press Enter.

Number of entries to retrieve . . .	*ALL _____	Number, *ALL
Type of File Transactions . . .	*ALL _____	*ALL, *ADD, *UPDATE, *DELETE
	+ for more values	
Job name	*ALL _____	Name, *ALL
User	_____	Name
Job number	_____	Character value
Program Name	*ALL _____	Name, *ALL
User profile	*ALL _____	Name, *ALL

Bottom

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
 F13=How to use this display F24=More keys

You can display a certain number of entries that meet the other requirements (such as the first ten), or you can display all of them.

You can display journal entries resulting from a transaction associated with a specific job, program, or user profile.

You can display all types of entries, entries due to additions, entries due to updates, or entries due to deletions

Work With Journal Views in Files—Run a View

From the Work with Journal Views in File panel you can "run" the view (assemble and display it) by typing a **1** in the Opt column next to the view you want to run and pressing Enter. The view is assembled and displayed in a temporary file that you can view and save.

```

EU720R          Work with Journal Views in File          CALVIN
Group: BOBGRP1          1/15/01 14:42:33
File: CMD8      Library: BOB
Type options, press Enter.
  1=Run View (F4 to prompt)  2=Change View Definition  4=Delete View

  Opt View Name  Description          User
  1 TESTVIEW
                *** End of data ***

View Definition NEW VIEW was successfully DELETED
F3=Exit  F5=Show Date Stamps  F6=Add View  F12=Previous  F21=Command Line
    
```

Enter a 1 in the Opt column and press Enter to view the temporary file that you can save.

```

Rec. Length.: 696 File: JRNVIEW Library: QTEMP Member: JRNVIEW
Rec. Count.: 5 Access: *ARRIVAL Mode: INQUIRY
SCAN..... to -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 0000000001 LS

      SEQUENCE          TIME OF
      NUMBER          ENTRY          JOB NAME
1  -  696             6 R          UB          121500  92024  QPADEV0000
2  -  696             7 R          UP          121500  92024  QPADEV0000
3  -  696             8 R          UB          121500  92034  QPADEV0000
4  -  696             9 R          UP          121500  92034  QPADEV0000
5  -  696            11 R          DL          121500  92038  QPADEV0000

F2=Previous Files  F3=Exit  F4=Select Mode  F5=Field List  F24=More Keys
    
```

Work With Journal Views in Files—Save a View

When you run a view, the EZJOURNAL view command creates an Ezview of the composite record, based on your view specifications (only the fields you wanted to see). After you have displayed the view, you can save the output file. You can rerun a view as long as the file associated with the view is being journaled.

```

Rec. Length.: 696 File: JRNVIEW Library: QTEMP Member: JRNVIEW
Rec. Count.: 5 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: ___ to ___ -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 0000000001 LS

```

SEQUENCE	TIME OF
1 -	:008
2 -	:008
3 -	:008
4 -	:008
5 -	:008

Do you want to save this temporary file for later use?

Yes or No...: _

F12=Cancel

F2=Previous Files F3=Exit F4=Select Node F5=Field List F24=More Keys

Enter a Y and press Enter to set the File Name and Library Name options.

```

Rec. Length.: 696 File: JRNVIEW Library: QTEMP Member: JRNVIEW
Rec. Count.: 5 Access.: *ARRIVAL Mode.: INQUIRY
SCAN.....: ___ to ___ -OR- *EQ
Field number: 1 field/text locate:
Record nbr... 0000000001 LS

```

SEQUENCE	TIME OF
1 -	:008
2 -	:008
3 -	:008
4 -	:008
5 -	:008

Do you want to save this temporary file for later use?

Yes or No...: Y

Enter File and Library Name

File Name...: _____

Library Name: _____

F12=Cancel

F2=Previous Files F3=EXIT F4=Select Node F5=Field List F24=More Keys

If you decide to save the output file, you can display it again.

Work With Views in Files—Change a View

You can edit an existing view by entering a **2** in the Opt column next to the view in the Work with Journal Views in File panel and pressing Enter. The Setup Journal View (JRNVIEW) panel appears with the view you selected displayed. You can edit the various specifications in the view. After you have edited the view, you can display it (run the view) and save the resulting output file. You can rerun the view anytime, as long as the file viewed is being journaled.

```

EU720R                               Work with Journal Views in File                               CALVIN
Group: ROBOT                           1/05/01 16:03:22
File: EZHSTJOB Library: PAUL
Type options, press Enter.
  1=Run View (F4 to prompt)  2=Change View Definition  4=Delete View

  Opt View Name  Description                User
  2 TESTVIEW    Test a View                               BOB
                *** End of data ***

View Definition TESTVIEW was successfully executed.
F3=Exit  F5=Show Date Stamps  F6=Add View  F12=Previous  F21=Command Line
    
```

Enter a **2** in the Opt column and press Enter to view the Setup Journal View panel.

```

                                Setup Journal View (JRNVIEW)
Type choices, press Enter.

Group Name . . . . . > ROBOT           Character value
Journaled File Name . . . . . > EZHSTJOB Name
Library . . . . . > PAUL             Name, *LIBL
View Name . . . . . > TESTVIEW       Character value
ACTION . . . . . > *ADD             *ADD, *DELETE, *UPDATE...
View Description . . . . . > 'A test view'
Journal fields to Include: . . . > JODATE
      + for more values
Data Base fields to Include: . . ?
      + for more values
Include Records by field test: _
  Relationship . . . . . *NONE        *NONE, *IF, *AND, *OR
  Field . . . . .
  Relational Operator . . . . .      *EQ, *GT, *LT, *NE, *GE...
  Value . . . . .
      + for more values _
                                More...

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```


Work With Journal Views in Files—Delete a View

You can delete an existing view by typing a **4** in the Opt column next to the view in the Work with Journal Views in File panel and pressing Enter. The Setup Journal View (JRNVIEW) panel appears. To delete the view, press Enter.

Caution: When you press Enter, Easy View *does not* prompt you for confirmation before deleting the view.

```

EV720R          Work with Journal Views in File          CALVIN
Group: BOBGRP1          1/11/01 15:50:53
File: CMD8      Library: BOB
Type options, press Enter.
  1=Run View (F4 to prompt)  2=Change View Definition  4=Delete View

  Opt View Name  Description          User
  4 NEW VIEW          *** End of data ***          BOB

F3=Exit  F5=Show Date Stamps  F6=Add View  F12=Previous  F21=Command Line
  
```

Enter a **4** in the Opt column and press Enter to view the Setup Journal View panel.

```

          Setup Journal View (JRNVIEW)

Type choices, press Enter.

Group Name . . . . . > BOBGRP1      Character value
Journalized File Name . . . . . > CMD8      Name
Library . . . . . > BOB      Name, *LIBL
View Name . . . . . > 'NEW VIEW'      Character value
ACTION . . . . . > *DELETE      *ADD, *DELETE, *UPDATE...
View Description . . . . .
Journal fields to Include: . . . *ALL
Data Base fields to Include: . . *ALL
Include Records by field test:
  Relationship . . . . . *NONE      *NONE, *IF, *AND, *OR
  Field . . . . .
  Relational Operator . . . . . *EQ, *GT, *LT, *NE, *GE...
  Value . . . . . Character value
Number of entries to retrieve . . *ALL      Number, *ALL
Type of File Transactions . . . *ALL      *ALL, *ADD, *UPDATE, *DELETE

          More...
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display      F24=More keys
  
```

Journal Views and Scan Definitions

Work With Journal Files in Groups—Journal a File

To journal a file, select the file by entering a **2** in the Opt column next to the file name and pressing Enter from the Work with Files in Groups panel. The Start Journaling window displays.

```
EU715R                               Work with Files in Group                               CYBRKING
                                                                                               7/30/07 09:40:13

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description          Journal  Library
  2  RBTCMD    ROBOTLIB
  _  RBTDEP    ROBOTLIB
  _  RBTOD     ROBOTLIB
  _  RBTROB    ROBOTLIB

*** End of data ***

Request to start Journaling was Cancelled
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
```

Enter a **2** in the Opt column and press Enter to view the Start Journaling panel.

You must specify the name of the journal and the library where it is located (or use a wild card specification).

```
EU715R                               Work with Files in Group                               CYBRKING
                                                                                               7/30/07 09:34:03

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description          Journal  Library
  2  RBTCMD    ROBOTLIB
  _  RBTDEP    ROBOTLIB

Start Journaling

File Name.....: RBTCMD
Library Name.....: ROBOTLIB

Journal Name.....: _____ name (or ?, gen*, *all to search)
Journal Library Name.: _____ name (or *libl, *allusr, *usrlibl,
*all to search)

F12=Cancel

File RBTCMD is not currently journalled.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
```

Work With Journal Files in Groups—Journal a File

You can specify the name of the journal, or enter a question mark (?) to display a list of the existing journal names. If you enter a question mark, the Select Journal panel appears, listing all the journals that currently exist in the library you specified.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                                          7/30/07 09:34:03
Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File           6=Edit Scan for file
Opt File      Library  Description
 2  RBTCMD    ROBOTLIB
  _  RBTDEP    ROBOTLIB

-----
                Start Journaling
-----
File Name.....: RBTCMD
Library Name....: ROBOTLIB

Journal Name.....: ?          name (or ?, gen*, *all to search)
Journal Library Name.:      name (or *libl, *allusr, *usrlibl,
                          *all to search)

F12=Cancel

File RBTCMD is not currently journalled.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

You can press **F4**, or enter a question mark (?) to display a list of options.

```

EU717R                               Select Journal                               CALVIN
                                                                                          1/11/01 14:32:08
Restrict to library: *LIBL          name, *ALL, *USRLIBL, *ALLUSR, *LIBL
Position to jrn . . *ALL          Full name, *ALL, generic*

Type options, press Enter.
  1=Select Journal 2=NRKJRNA

  Lib/File          Text
  _  QSYS/QACGJRN
  _  QSYS2/QSQJRN
  _  QUSRSYS/QAOSDIAJRN
  _  QUSRSYS/QASOSCFG
  _  QUSRSYS/QDSNX
  _  QUSRSYS/QLZALOG
  _  QUSRSYS/QMAJRN
  _  QUSRSYS/QSNADS
  _  QUSRSYS/QSXJRN      JOURNAL FOR PROBLEM DATABASE
  _  QUSRSYS/QT0UOBJRN
  _  QUSRSYS/QYPSOBJRN
  _  QUSRSYS/QZCAJRN
  _  QUSRSYS/QZMF
  ***** End of selected data *****
F3=Exit  F12=Previous
    
```

Work With Journal Files in Groups—Journal a File

After you specify the name of the journal, specify the name of the library containing the journal (or use one of the wild card options to display a list of journals to choose from), and press Enter. The Work with Files in Group window reappears, listing the file, the journal you specified, and the library containing the journal.

Note: You must have access privileges to both the journal and the file that you specified.

```

EU715R                               Work with Files in Group                               CALVIN
                                      1/11/01 14:13:44
Group: BOBGRP1   Test files in library Bob
Type options, press Enter.

Start Journaling
File Name.....: CMD8
Library Name.....: BOB
Journal Name.....: RBT_JRN   name (or ?, gen*, *all to search)
Journal Library Name..: BOB   name (or *libl, *alluse, *uselibl,
                             *all to search)
F12=Cancel

Journaling was successfully ended for CMD8.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

Enter the Journal Name and Journal Library Name, then press Enter. You receive a message that journaling was successfully started.

```

EU715R                               Work with Files in Group                               CVBRKING
                                      7/30/07 09:46:53
Group: ROBOT   Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File           6=Edit Scan for file
Opt File   Library   Description   Journal   Library
- RBTCMD   ROBOTLIB
- RBTDEP   ROBOTLIB
- RBTOD    ROBOTLIB
- RBTROB   ROBOTLIB
*** End of data ***

Journaling for RBTCMD was successfully started.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

Work With Journal Files in Groups—Stop Journaling a File

To stop journaling for a file, select the file by entering a **3** in the Opt column next to the file name and pressing Enter from the Work with Files in Groups panel. The End Journaling window displays. Press Enter to stop journaling, or **F12** to cancel.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/07 09:33:00

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description      Journal  Library
  3 RBTCMD     ROBOTLIB
  - RBTDEP     ROBOTLIB
  - RBTOD      ROBOTLIB
  - RBTROB     ROBOTLIB
                                     *** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

Enter a **3** in the Opt column and press Enter to view the End Journaling panel.

Press Enter to stop journaling for this file.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/07 09:46:53

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description      Journal  Library
  3 RBTCMD     ROBOTLIB
  - RBTDEP     ROBOTLIB
                                     ***

                                     End Journaling
                                     ***
File Name.....: RBTCMD
Library Name.....: ROBOTLIB
Journal Name.....: QACGJRN
Journal Library Name...: QSYS

F12=Cancel

                                     Press ENTER to Confirm

Journaling for RBTCMD was successfully started.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

Work With Journal Files in Groups—Stop Journaling a File

You return to the Work with Files in Group panel and a message appears indicating that you have stopped journaling successfully.

```
EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/07 09:49:29
Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library      Description      Journal      Library
- RBTCMD      ROBOTLIB
- RBTDEP      ROBOTLIB
- RBTOD       ROBOTLIB
- RBTROB      ROBOTLIB
*** End of data ***

Journaling was successfully ended for RBTCMD.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
```

Indicates that journaling was stopped for this file.

Work With Journal Files in Groups—Remove a File From a Group

To remove a file from a group, enter a **4** in the Opt column next to the file you want to remove and press Enter. The Confirm Delete window appears to allow you to verify that you actually want to delete the file.

Notes:

- When you remove a file from an Easy View group, you are not deleting the physical file, you are simply removing it from the group structure that Easy View created. The physical file still exists.
- You cannot remove a file that has dependent views. To remove a file with dependent views, you must first remove the views from the file.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/07 09:49:29

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description
 4 RBTCMD     ROBOTLIB
-  RBTDEF     ROBOTLIB
-  RBTOD      ROBOTLIB
-  RBTROB     ROBOTLIB
*** End of data ***

Journaling was successfully ended for RBTCMD.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

Enter a **4** in the Opt column to remove a file from the group. A Confirm delete panel appears.

Press Enter to delete the group. Press **F12** to cancel the deletion.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/07 09:49:29

Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File          6=Edit Scan for file
Opt File      Library  Description
 4 RBTCMD     ROBOTLIB
-  RBTDEF     ROBOTLIB
-  RBTOD      ROBOTLIB
-  RBTROB     ROBOTLIB
*** End of data ***

Journaling was successfully ended for RBTCMD.
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
    
```

.....Confirm Delete.....

Press enter to delete group-file:

File: EVPAUDT Library: JRICHARDS

Description: Audit log file for EZVIEW

F12=Cancel delete

Work With Journal Files in Groups—Edit Scan for File

You can edit saved scans from the Work with Files in Group panel. To edit a saved scan, enter a 6 in the Opt column next to the file that you want to edit and press Enter. The Work with Search Criteria in File panel appears.

```
EU715R                               Work with Files in Group                               CVBRKING
                                         7/31/07 13:52:29
Group: THERESA   Created by Extended Scan
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Ezview File           6=Edit Scan for file
Opt File      Library  Description      Journal  Library
-  $$ARCOLD$$ ABCARCHIVE Archived Source   QAOSDIAJRN QUSRSYS
6  -EVAUDT    JRICHARDS Audit log file for EZUIEW
*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F21=Command Line
```

Enter a **6** in the Opt column to work with the scan criteria for the selected file.

Enter a number under the Opt column to do one of the following:

- 2** Change scan definition
- 4** Delete scan definition.
- 5** View scan definition.
- 6** Run scan directly to a CSV file.

```
EU721R                               Work with Search Criteria in File                               CVBRKING
                                         7/31/07 13:52:55
Group: THERESA
File: EVAUDT    Library: JRICHARDS Audit log file for EZUIEW
Type options, press Enter.
  2=Change Definition  4=Delete Definition  5=Display Definition
  6=Run Scan to Export File
Opt Search Name  Description      User
-  FINDUSERS     chgs Theresa, Roxy or Vivian  THERESA
*** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add Search  F12=Previous  F21=Command Line
```


Work With Journal Files in Groups—Run Scan to Export File

You can run saved scans directly to a Column Delimited (CSV) file. To run a scan to a CSV file, enter a 6 in the Opt column next to the scan you want to export and press Enter. The Export File window appears.

```

EU721R          Work with Search Criteria in File          CVBRKING
Group: THERESA          7/31/07 15:19:18
File: EUPAUDT   Library: JRICHARDS  Audit log file for EZVIEW
Type options, press Enter.
  2=Change Definition  4=Delete Definition  5=Display Definition
  6=Run Scan to Export File

  Opt Search Name  Description          User
  6 FINDUSERS     chgs Theresa, Roxy or Vivian  THERESA
                    *** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add Search  F12=Previous  F21=Command Line
  
```

Enter a 6 in the Opt column to open the Export File window.

```

EU721R          Work with Search Criteria in File          CVBRKING
Group: THERESA          7/31/07 15:19:18
File: EUPAUDT   Library: JRICHARDS  Audit log file for EZVIEW
Type options, pr .....
  2=Change Defin :          Export File          : nition
  6=Run Scan to :          :
  Opt Sear : File Name..... :
  6 FIND : Library Name..... :
          : Member Name..... : *FIRST : SA
          : Export File Action: A :
          : C=Create File :
          : R=Clear File :
          : A=Add to File :
          : Submit File Export: _ :
          : Job Description... :
          : Library..... :
          : CF03=Exit :
          : .....
F3=Exit  F5=Show Date Stamps  F6=Add Search  F12=Previous  F21=Command Line
  
```

Enter file, library, and member information, then enter an option for the file action. The records that meet the scan criteria will be used to:

- C** Create a new file containing the selected records.
- R** Replace a record in an existing file. This option clears the existing file of all records.
- A** Add this record to an existing file. Adds records from scan results to existing files.

Work With Journal Files in Groups—Add a File To a Group

To add a file to an existing journal group, press **F6** from the Work with Files in Group panel. The Add File to Group window displays. Type the name of the file to add to the group and the library where it is located, and press Enter. The Work with Files in Library panel reappears with the new file added to the group. If the file is currently being journaled, it is indicated in the Journal column to the right.

```

EU715R                               Work with Files in Group                               CYBRKING
                                                                              7/30/87 11:05:50
Group: ROBOT      Robot files
Type options
  1=Edit JRN
  4=Remove F
Opt File
  - $$ARCHENS$
  - BR1111
  - RBTDEP
  - RBTOD
  - RBTROB
  - ROBOTLIB
  - ROBOTLIB
*** End of data ***

                                Add file to Group
                                Enter file to include in Group:
                                File: _____ Library: _____
                                (use ? or generic* to search)
                                F4=Find   F12=Cancel

                                Journaling File
                                Scan for file
                                Library

Cannot delete or change this Group-File
F3=Exit  F5=Show Date Stamps  F6=Add File  F11=Previous  F12=Command Line
  
```

Enter the File name and Library name. Press **F4** to search for a file to add. Press Enter after adding a file.

```

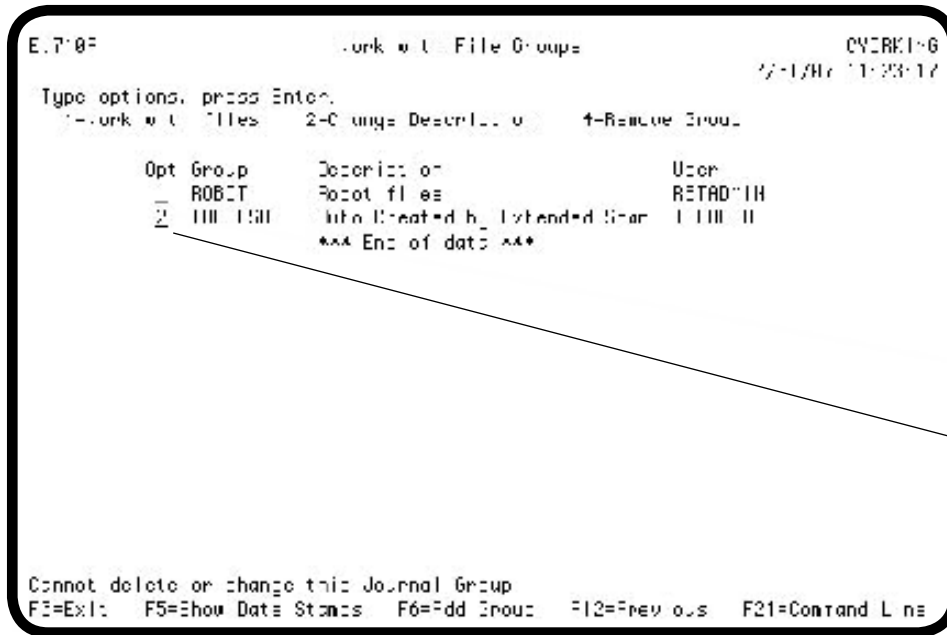
                               Work with Files in Group                               7/30/87 11:05:29
Group: ROBOT      Robot files
Type options, press Enter.
  1=Edit JRN Views for File  2=Start Journaling File  3=End Journaling File
  4=Remove File from Group  5=Export File           6=Edit Scan for File
Opt File      Library      Description      Journal      Library
  - $$ARCHEN$$ ARCHIVE Archived Source
  - ACS_C001   ACNS_0425 COPYRIGHT (C) Aldon, Inc. 1989
  - RBTCHD    ROBOTLIB
  - RBTDEP    ROBOTLIB
  - BR1111    BR1111 R
  - RBTROB    ROBOTLIB
*** End of data ***

File definition added
F3=Exit  F5=Show Date Stamps  F6=Add File  F12=Previous  F13=Command Line
  
```

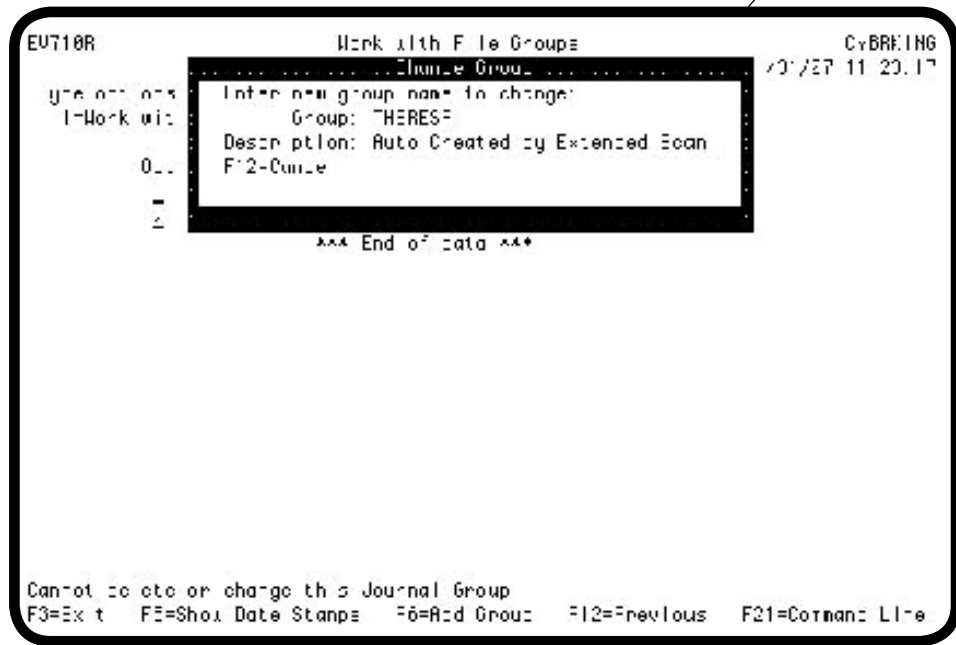
Indicates that the file was added to the group.

Work With File Groups—Change a Group Description

To change the description of an existing file group, enter a **2** in the Opt column next to the group and press Enter from the Work with File Groups panel. The Change Group window displays. You can use this window to change the descriptions of the file group.



Enter a 2 in the Opt column to open the Change Group panel.



Work With File Groups—Change a Group Description

When you have finished changing the description of the file group, press Enter. The Work with File Groups panel redisplay with your new description.

```
EU710R                               Work with File Groups                               CYBRKING
                                                                                               7/31/07 12:07:27
Type options, press Enter.
 1=Work with files   2=Change Description   4=Remove Group

  Opt Group      Description                               User
  -  ROBOT       Robot files                               RBTADMIN
  -  THERESA     Created by Extended Scan                     JRICHARDS
                                     *** End of data ***

Journal Group changed.
F3=Exit   F5=Show Date Stamps   F6=Add Group   F12=Previous   F21=Command Line
```

New group description displays.

Work With File Groups—Add a Group

To add a file group for displaying journal views, press **F6** from the Work with File Groups panel. The Add Group window displays. Enter a group name and description for your group, and press Enter.

```

EU710R                               Work with File Groups                               CYBRKING
                                     Add Group                                     /31/07 12:07:27
Type options                          Enter new Group and Description:
  1=Work with                          Group: NEWGROUP
Opt                                     Description: testing
  F12=Cancel
                                     S
                                     *** End of data ***

Journal Group changed.
F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
    
```

Press **F6** to view the Add Group panel. Add the name of the new group and a short description. Then, press Enter.

When you create a group successfully, a message appears indicating that a new journal group was defined.

```

EU710R                               Work with File Groups                               CYBRKING
                                                                                   7/31/07 12:12:50
Type options, press Enter.
  1=Work with files  2=Change Description  4=Remove Group

Opt Group      Description      User
-  NEWGROUP    testing        JRICHARDS
-  ROBOT       Robot files    RBTADMIN
-  THERESA     Created by Extended Scan
                                     JRICHARDS
                                     *** End of data ***

Journal Group definition added
F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
    
```

Work With File Groups—Remove a Group

To remove a file group, enter a 4 next to the group you want to remove and press Enter. The Confirm Delete window appears to allow you to verify that you actually want to delete the group.

Note: You cannot remove a group that has dependent files or views. You must remove the dependencies. First remove the views from the files, then remove the dependent files from the group. Remember, when you remove a file from Easy View you are not deleting the physical file, you are simply removing the file from the group structure that Easy View created—the physical file still exists.

```
EU710R                               Work with File Groups                               CYBRKING
                                         7/31/07 12:12:50
Type options, press Enter.
1=Work with files  2=Change Description  4=Remove Group

Opt Group      Description                               User
4- NEWGROUP    testing                                       JRICHARDS
-  ROBOT       Robot files                                   RBTADMIN
-  THERESA     Created by Extended Scan                    JRICHARDS
*** End of data ***

Journal Group definition added
F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
```

Enter a 4 in the Opt column to view the Confirm Delete panel.

Press Enter to delete the group.

```
EU710R                               Work with File Groups                               CYBRKING
                                         Confirm Delete.                               /31/07 12:12:50
Type options
1=Work wit
Opt
4
-
-  THERESA     Created by Extended Scan                    JRICHARDS
*** End of data ***

Verify delete and press enter:
Group: NEWGROUP
Description: testing
F12=Cancel

Journal Group definition added
F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
```

Work With File Groups—Display Time and Date Stamps

To display the date and time stamps for a group, press **F5**. The Work with Files in Group panel displays the time and date stamp information for all defined groups. Press **F5** again to return the panel to its normal display mode.

Note: This panel indicates the time and date the group was created, or its description was changed. It does not indicate changes to a component of the group, such as a file, view, or field.

```

EU710R                               Work with Journal Groups                               CALVIN
                                                                              1/09/01 15:55:31
Type options, press Enter.
  1=Work with files   2=Change Description   4=Remove Group

  Opt Group      Description                               User
  - BOBGRP1     Test files in library Bob                         BOB
  Date Changed: 2001 01 05 14:13:09 Date Created: 2000 12 13 15:06:10
  - PAULGRP     Test files used by Paul                          BOB
  Date Changed: 2001 01 05 14:13:26 Date Created: 2000 12 13 15:09:06
  - ROBOT      ROBOT files                                       BOB
  Date Changed: 2001 01 05 14:13:44 Date Created: 2000 12 22 15:35:23
  *** End of data ***

F3=Exit  F5=Show Date Stamps  F6=Add Group  F12=Previous  F21=Command Line
    
```

Indicates the date and time the group record was last changed.

Indicates the date and time the group record was created.

EZVIEWJRN Command

You can use a streamlined version of the EZJOURNAL command to create a work file for viewing journal entries. Enter the EZVIEWJRN command outside Easy View, or select option **5** from the Easy View menu. The Display Journal Images (EZVIEWJRN) panel displays. Enter the journaled file name and the work file name. You can also define the criteria Easy View will use to select records for the work file. When you press Enter, Easy View selects the journal entries and creates the work and output files. You determine the work file name; the output file is named Tempfd.

Enter the file and library names of the journaled file whose entries you want to view.

Enter the member to view (the first member in the file is the default).

Display Journal Images (EZVIEWJRN)

Type choices, press Enter.

Journal File Name	<u>RBSLB</u>	Name
Library	> <u>STUTEST5</u>	Name, *LIBL
File to receive entries	> <u>RBSTEST</u>	Name
Library	> <u>*LIBL</u>	Name, *LIBL
Journal File Member	<u>*FIRST</u>	Name, *FIRST
Receive File Member	<u>*FIRST</u>	Name, *FIRST
Replace or add records	<u>*NONE</u>	*REPLACE, *ADD, *NONE
Create File	> <u>*YES</u>	*NO, *YES

Additional Parameters

Journal	<u>*ATTACHED</u>	Name, *ATTACHED
Library	_____	Name, *LIBL

More...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

Enter the name of the file to receive the journal entries:

- If you enter an existing file name, you must enter *REPLACE or *ADD in the Replace or add records field.
- If you enter a new file name, you must enter *YES in the Create File field and *NONE in the Replace or add records field.

Press **F10** to display the additional parameters. Roll the display to see more parameters.

EZVIEWJRN—Additional Parameters

Additional parameters on the Display Journal Images panel let you limit the journal entries in your output file. Roll the display to see these parameters. When you display the work file using Easy View, you can use the scanning feature to search for specific records, but it is much faster to scan for records if you limit your journal entries in the work file.

Display Journal Images (EZVIEWJRN)

Type choices, press Enter.

Range of journal receivers:		
Starting journal receiver . . .	<u>*CURRENT</u>	Name, *CURRENT
Library	_____	Name, *LIBL
Ending journal receiver . . .	<u>*CURRENT</u>	Name, *CURRENT
Library	_____	Name, *LIBL
Starting sequence number . . .	<u>*FIRST</u>	Number, *FIRST
Starting date and time:		
Starting date	_____	Date
Starting time	_____	Time
Ending sequence number . . .	<u>*LAST</u>	Number, *LAST
Ending date and time:		
Ending date	_____	Date
Ending time	_____	Time
Number of journal entries . . .	<u>*ALL</u>	Number, *ALL
Journal entry types	<u>*RCD</u>	*RCD, PT, UB, UP, DL, PX...
+ for more values	_____	
More...		
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display F24=More keys		

Enter the range of journal receivers to search. If blank, Easy View Journal searches the current receiver only.

Enter the journal entry type you want:

- To enter more types, enter + in the more values field.
- To retrieve all types, leave this selection blank.

Enter the date and time range to search.

EZVIEWJRN—Additional Parameters

Roll the display to see the last journal panel, where you can further limit your journal entries to a specific job, user, program, user profile, and commit cycle identifier. You can define your selection to include records that meet specific comparison criteria, such as jobs that started after a specific date. (This part of the EZVIEWJRN command is similar to the IBM i Copyfile [CPYF] command.)

To limit the search to one job, program, user profile, or commit cycle identifier, enter its name or number here. If blank, all entries for the categories are selected.

```

Display Journal Images (EZVIEWJRN)

Type choices, press Enter.

Job name . . . . . *ALL _____ Name, *ALL
User . . . . . _____ Name
Job number . . . . . _____ Character value
Program . . . . . *ALL _____ Name, *ALL
User profile . . . . . *ALL _____ Name, *ALL
Commit cycle identifier . . . . . *ALL _____ Number, *ALL
Include Records by field test: +
Relationship . . . . . *if _____ *NONE, *IF, *AND, *OR
Field . . . . . datest _____ Name
Relational Operator . . . . . *gt _____ *EQ, *GT, *LT, *NE, *GE...
Value . . . . . 073194 _____
      + for more values -

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

To include only records that meet specific criteria, enter the criteria here.

Enter + in either field to display a panel that lets you enter multiple search criteria.

Submitting to Batch

If the journal receiver is large, the selection process can take a long time. You can submit the process to batch using the SBMJOB command. If you want to see the Display Journal Images panel, press **F4** to prompt the SBMJOB command. In the Submit Job panel, enter **ezviewjrn** in the Command to run field and press **F4**. The Display Journal Images panel displays and you can define your selection criteria as described earlier.

Type **ezviewjrn** and press **F4** to see the Display Journal Images panel, described earlier.

Submit Job (SBMJOB)

Type choices, press Enter.

Command to run ezviewjrn

Job name	<u>*JOBQ</u>	Name, *JOBQ
Job description	<u>*USRPRF</u>	Name, *USRPRF
Library		Name, *LIBL, *CURLIB
Job queue	<u>*JOBQ</u>	Name, *JOBQ
Library		Name, *LIBL, *CURLIB
Job priority (on JOBQ)	<u>*JOBQ</u>	1-9, *JOBQ
Output priority (on OUTQ)	<u>*JOBQ</u>	1-9, *JOBQ
Print device	<u>*CURRENT</u>	Name, *CURRENT, *USRPRF...

More...

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

Journal Views and Scan Definitions

Viewing the Journal Entries

After the selection process completes, you can use Easy View to look at the entries in the work file. Use spreadsheet mode, or EZFIELD mode, to see a formatted display of the entry fields.

On the EZVIEW command, specify the work file and library you entered on the Display Journal Images panel.

```
Rec. Length.: 533 File: TEST Library: RJKLIB Member: TEST
Rec. Count.: 1792 RAN.: 1 Access.: *ARRIVAL Mode.: INQUIRY
Scan: ..... to -RR- *EQ

Record nbr... 00000001 US

- ENTRY LENGTH..... 533
- SEQUENCE NUMBER..... 505511
- CNMF..... 0
- ENTRY TYPE..... LP
- DATE OF ENTRY..... 022591
- TIME OF ENTRY..... 71640
- JOB NAME..... PEGGY
- USER NAME..... PEGGY
- JOB NUMBER..... 212421
- PROGRAM NAME..... SOPSAL
- OBJECT NAME..... SOPSAL
- OBJECT LIBRARY NAME..... CNMF LE
- MEMBER NAME..... SOPSAL
- RELATIVE RECORD NUMBER.: 23566
- FLAG..... 0

F3=Exit F4=Select Mode F5=Field List F6=Add Record F24=More Keys
```

These are the heading fields of the journal entry displayed in EZFIELD mode. Roll down to see the data fields.

```
Rec. Length.: 533 File: TEST Library: RJKLIB Member: TEST
Rec. Count.: 1792 RAN.: 1 Access.: *ARRIVAL Mode.: INQUIRY
Scan: ..... to -RR- *EQ

Record nbr... 00000001 US

COMMIT CYCLE ID..... 0
RESERVED.....
Customer Number..... 71330
Software code..... 101
Time key..... 95000020290
Date manual sent..... 20290
Date first letter..... 20290
Date 1st phoned..... 20190
Date to phone again..... 0
Date Serial # given..... 0
Date 2nd billing..... 0
Date Softw. deliv..... 0
Date dmanual sent..... 90160
Date first letter..... 90160
Date 1st phoned..... 90159

F3=Exit F4=Select Mode F5=Field List F6=Add Record F24=More Keys
```

Scanning the Journal Entries

While viewing the work file, you can scan for specific entries. An extended scan (**F14**) lets you find records that were updated incorrectly. Just enter the criteria that identify a record in error and Easy View finds them. You see the time, date, program, user, and workstation that originated the error.

If you journal both before and after images, you can see the values before and after the update. This is useful because many update errors are caused by a combination of values your program did not anticipate. For example, suppose purchase order date is being randomly zeroed out, and one was zeroed out on August 24, 1999. By scanning for a journal date of 082499 and a purchase order date of 0 on the after image, you can find the entry for the transaction that caused the error. The scan finds the transaction, and the before image shows what caused the problem.

From the Easy View record display, press **F14** to display the Extended Scan screen. Enter scan criteria as described earlier.

Extended Scan Parameters

Display Conditions:
 Occurrence to Display/Change: 1 (1=Next; 2=All)
 Number of Records to Read: 500
 Process as Subject:
 Print Selected Record (Y/N):

Scan Options,
 A=And O=Or R=Replace D=Delete

Option	Field Name	From	Thru	Operand	Scan Data
	PODATE			=EQ	0
A	CUSPO			=NE	=BLANK
A	JOENTT			=EQ	UB
A	JDATE			=EQ	082499
-					
-					
-					
-					
-					
-					
-					

+

F0=Exit F7=Scan Forward F0=Scan Backward F24=Home Keys

Notes:

■ Maximum Length of Records, Composite Keys, and Fields

The following table describes the maximum lengths for records, keys, and fields that Easy View handles:

Maximum	Value
Record Length	9999
Composite key length	121 Note: Any number/length of keys is allowed as long as the total of all keys in the format is 121 or less.
Numeric field length	30
Field length that can be shown	<ul style="list-style-type: none"> • 120 bytes when selecting a record using option E • 512 bytes in EZFIELD mode Either select a record with option 3 or 4 and enter EZFIELD on the command line, or select option 2 from the EZVIEW Menu.
Binary Field Limit	Support for standard binary 2, 4, and 8 fields.
Maximum Decimal Places	63

■ Recursive Calls to Easy View

Recursive calls to Easy View within the same session are not allowed. To run another instance of Easy View, sign on to another session or initiate another view.

Common Easy View Commands**Introduction**

The following is a brief summary of common i5/OS Easy View commands. You can enter these commands from a command line prompt, place them in a CL program, or schedule them using a job scheduler such as Robot SCHEDULE. These commands are described in detail throughout this user guide.

GO EZVIEW

Use this command to display the Easy View Menu with commands for the tasks you perform most often.

EZVIEW

Use this command to work with a database file. It starts Easy View and displays the file. You can specify a file to display, or *PRV to continue the previous Easy View session. You can also display additional files without leaving Easy View.

EZVIEW *SELECT

Use this command if you don't remember the name of the file you want to work with. It displays a panel listing the files and functions you can select.

EZCPYTOCSV

Use this command to create a spreadsheet file from your IBM i data.

EZSCAN

Use this command from a command line or batch program, to retrieve and run a scan definition you have previously created and stored in EZVIEW.

PRTAUDIT

Use this command to print the EZVIEW Audit Log Report.

EZFIELD

Use this command to quickly show the field definitions of a file.

EZTREE

Use this command to easily find the database relations for a file.

EZVIEWMOD

Use this command to directly access a database model you have created for a file.

EZVIEWJRN

Use this command to work with journal entries using EZVIEW. You can specify which journal transactions to work with, then use EZVIEW navigation tools to view your journal entries. See Journal Views and Scan Definitions for complete details.

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