A powerful utility to
Edit/Reformat/Define/Search/Change/
Merge/Copy/ VSAM and Non-VSAM
datasets in TSO/ISPF and Batch

FileMarvel Features

- Supports variable VSAM and Non-VSAM datasets, including ability to change the record length.
- Supports record selection for Edit, Browse, Copy, and Print, including ability to specify multiple criteria using Boolean logic.
- Edit and Browse datasets using your copybooks to format the data.
- Provides the ability to reformat a dataset using a copycode "template".
- Provides the ability to create a new copybook "template" from a copycode. You can include only the fields you are interested in creating a new "view" of the data. This can be done without modifying the source copycode.
- Copycode ownership and access can be by USERID, GROUP or GLOBAL.
- An online Dataset Compare Function provides the ability to compare datasets even with different DSORG's. PDS's containing source or loadlib members can also be compared.
- Allows extracting dataset subsets to a VSAM or non-VSAM dataset or a PDS member.
- Allows copying a dataset subset in edit.
- Edit and Browse provides four different screen layouts: Standard, Formatted, Hex, and Compressed.
- Supports COBOL and PL/1 copybooks.
- Provides the ability to create and save frequently used AMS control statements for re-use.
- Allows access to copybooks from a PDS member, CA-LIBRARIAN, or PANVALET.
- Provides automatic copycode switching when moving from record type to record type in Edit/Browse.
- Provides batch capabilities, including record selection.
- Allows searching and changing records, entire datasets, or partitioned datasets.
- Provides dataset selection lists to perform dataset maintenance. Selection list can be generated based on volume of dataset name pattern.
- Allows browsing a dataset without exclusive control.
- Interfaces with TOP-SECRET, ACF/2 and RACF.
- A full, context sensitive HELP facility.
- Allows the definition of FileMarvel AUTOEXEC commands to perform often used tasks.
- Performs well on very large datasets.
- De-allocates all product datasets when the product is not in use.
- Supports printing of VSAM and Non-VSAM datasets in three formats including copycode format. Record selection functionality provided.

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What is FileMarvel?

FileMarvel is a utility to access and maintain data files. ISPF's edit and file manipulation utilities' emphasis is on source files; FileMarvel specifically addresses data files. File Marvel uses the familiar ISPF interface to provide browsing, editing, reformatting, merging, copying, printing, sorting and defining datasets. It handles file organizations and record sizes not supported by ISPF, even tape datasets.

Edit or browse datasets can use copycode to format the displays. You can exclude copycode fields from the edit or browse session so only desired fields are displayed. Perform record selection using multiple criteria linked with AND/OR logic so only the selected records are displayed in the edit or browse session.

Search and change datasets using powerful FileMarvel commands within edit.

FileMarvel runs under ISPF and batch.

Large datasets are not a problem for FileMarvel. It handles datasets too large to contain in memory without performance penalties.

What Datasets are supported?

In addition to the files supported by ISPF, FileMarvel also supports:

- Sequential files or members of a PDS with record sizes up to the disk track capacity
- VSAM files (KSDS, ESDS, RRDS)
- IAM files
- CA-LIBRARIAN
- PANVALET
- BDAM files
- GDG files
- Files of unlimited size (without monopolizing computer memory)
- Files on tapes (mount authority required)
- Non-standard files (via exit routines)

Does this Literature show me all the capabilities of FileMarvel?

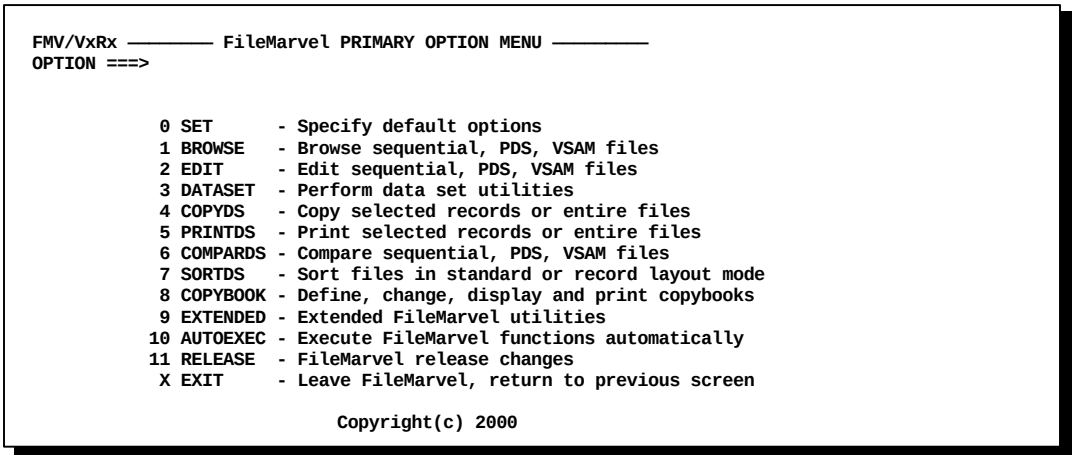
No. This literature only discusses a few of the many capabilites of FileMarvel. To find out for yourself, please call MacKinney Systems for a free 30 day trial. FileMarvel installs quickly and easily.

How do I access FileMarvel?

FileMarvel executes as a panel driven dialog under ISPF. It also has Batch facilities that can be submitted via panels or from PDS members.

FileMarvel is accessed from any ISPF panel using the command FMV. Any FileMarvel function can also be accessed using FastPathing. To access any FileMarvel function directly, enter the command FMV followed by the function name. For example: FMV BROWSE.

An example of the FileMarvel main menu is shown below:



SET

Set FileMarvel default options.
This provides the ability to modify the functions FileMarvel to suit your needs

BROWSE

Invoke FileMarvel browse.

The display modes supported are:

STANDARD ISPF-like format.
FORMAT Uses PL1 or Cobol copycode to format the records.
COMPACT Same as FORMAT but will show twice as many records per screen.
HEX A three-line display showing multiple records per screen.
HEXD A format that resembles a dump showing a single record at a time.
REFORMAT Provides ability to reformat a record to your needs.

EDIT

Invoke the FileMarvel editor.

The display modes supported are:
Same as Browse display modes listed above.

DATASET

Display the data set utilities menu.

This menu provides the following selections:

ALLOC – Allocate a new VSAM or non-VSAM dataset. This is a general allocation utility. A full functioned VSAM allocation facility can be found under AMS.
AMS – Menu of Selections to perform Access Method Services online. Define, Display information, delete or change VSAM files. The selections available are:
  1 DEFESDS – Define a VSAM ESDS dataset interactively.
  2 DEFKSDS – Define a VSAM KSDS dataset interactively.
  3 DEFRRDS – Define a VSAM RRDS dataset interactively.
  4 DEFNONV – Catalog a Non-VSAM datasets interactively.
  5 DELGDG – Delete GDG level entries.
  6 ONLINE – Execute AMS Commands Online.
  7 MODELS – Create amd save frequently used AMS commands.
  8 LISTC – Dataset selection list. Browse, edit, delete, etc.
  9 LISTD – List dataset catalog information for a single dataset.
DEFGDG – Define GDG Level Entries. CATALOG Catalog Non-VSAM datasets.
UNCATLG – Uncatalog Non-VSAM datasets.
DELETE – Delete VSAM/Non-VSAM datasets.
RENAME – Rename VSAM and Non-VSAM datasets.
COMPRESS – Compress partitioned data sets.
SPACE – List free space on direct access volumes.
LISTCAT – List data set catalog information. Provides a selection directory providing the ability to perform a variety of functions with selection commands.
LISTVTOC – List datasets on direct access volumes. Provides a selection directory providing the ability to perform a variety of functions with selection commands.

COPYDS

Copy entire file or selected records to other files, even across different file organizations.

PRINTDS

Print entire files or selected records. Files can be printed using a copybook to format the records. Records can be selected to print manually or by using multiple selection criteria.

COMPARDS

Compare entire datasets or selected records. You can compare entire record or only selected fields. You can compare datasets with different DSORG's. You can compare PDS source and loadlib members.

SORTDS

Sort files online using copybook definitions. You can also create SORT command cards and use them in batch.

COPYBOOK

Maintain copybook templates. You can create new templates by modifying existing templates. You can also maintain copycode source code within FileMarvel WITHOUT modifying your copycode source in your PDS.

EXTENDED

Enter a secondary menu of FileMarvel utilities.

The selections available are:

BASE – Modify various group and access environmental lists.
BASIC – Design, change, compile procedures.
DA – Display batch jobs during execution
ALLOCDD – Interactively allocate a dataset to a TSO session.
FREE – Interactively free a dataset from a TSO session.
LISTDD – List datasets currently allocated to a TSO session.

AUTOEXEC

Develop commands to execute on any FileMarvel command entry line.

RELEASE

Display the current release changes.

How is an Edit or Browse session formatted?

Edit and browse sessions are formatted in the following ways:

Standard Similar to the ISPF edit/browse format. Added commands improve manipulation of data files.

Format Use COBOL or PL/1 copycode to format the records into fields to display. Field values may be changed by overtyping. The new value is placed in the record consistent with the field definition in the copycode. Fields that do not conform to the field definitions are marked as invalid.

Compact Similar to Format mode except twice the number of fields are presented on one screen.

HEXD Present the data in the familiar "dump" format. Both the hexadecimal representation of the data and the printable characters are shown. Shows a single record per screen.

HEX A "three-line" display that shows mult.p6 records per screen. Shows the hex representation directly under the displayed byte.

Reformat Similar to Format. Provides the ability to reformat the record by moving the copycode fields and excluding unneeded fields. Can use this display mode to create a new dataset with a different record format.

How does an Edit/Browse session look in Standard mode?

An example of an edit session in Standard Display mode is shown below:

The ASSIST command displays common command usage and edit/browse session settings as shown.

The edit/browse session mode can be changed at any time by issuing a primary command.

```
FMV/VxRx-EDIT----- $CBKCOB-- MACS.FMARVEL.VxRx.DE Rec 0000000 Cols 00001 00071
COMMAND ===>                                                 SCROLL ===> CSR
Main commands: ASSIST, LEFT, RIGHT = column scroll, UP, DOWN = record scroll
Display  mode: S          Format, Standard, Hex, Compact     Editmode: UNPROT
Copybook name: $CBKCOB    member name, *=member list         Filemode:  SAVE
******* ************************** Top of File ******************************
0000001 00100111111111101010000035  r    r  %         r b  r    r
0000002 00100111111111101040000031 r  b  r k OFB20317         PAYOF 196.92 TR
0000003 00100111111111101120000031 r  b  r k OFB20317         01N
0000004 00100111111111101220000033  r    r  %OFB20288         02 o- *123456789
0000005 00100111111111101440000033  r    r  %OFB20288         01C r    q 00000
0000006 00100111111111101450100031 r  b  r k OFB20317               r  %   *
0000007 00100111111111101500100035  r    r  %                 OFB8151      r
0000008 00100111111111101700110035  r    r  %                 01      r b
```

How does an Edit/Browse session look in Format mode?

An example of an edit session in Formatted Display mode is shown below:

This mode uses COBOL or PL/1 copycode to format the records into fields.

```
FMV/VxRx-EDIT----- $CBKCOB-- MACS.FMARVEL.VxRx.DE Rec 0000001   Loc  00001 00675
COMMAND ===>                                                 SCROLL ===  > CSR
Main Commands: ASSIST, LEFT, RIGHT = record scroll, UP, DOWN = field scroll
Display  mode: F          Format, Standard, Hex, Compact      Editmode: UNPROT
Copybook name: $CBKCOB    member name, *=member list          Filemode: SAVE
Relpos Lvl  Field Name             Occ Typ   Length  ....+....10...+....20...
000001  12  BT01-COMPANY         <=KEY=  CH        3  001
000004  12  BT01-SUB-COMPANY     <=KEY=  CH        2  00
000006  16  BT01-MEMBER-NUMBER   <=KEY=  ZD        9  111111111
000015  16  BT01-POLICY-SUFFIX   <=KEY=  CH        3  001
000018  12  BT01-RECORD-TYPE     <=KEY=  CH        2  01
000020  12  BT01-UNIT            <=KEY=  CH        5  abcde
```

The data is presented consistent with field definitions provided in the copycode. In edit, overtyped fields are automatically applied to the file according to the field definition. Fields that do not conform to the field definitions in the copycode are marked as invalid. Find and change commands limit a search to specific field(s).

How does an Edit/Browse session look in Compact mode?

An example of an edit session in Compact Display mode is shown below:

```
FMV/VxRx-EDIT── $CBKCOB─ MACS.FMARVEL.VxRx.DE Rec 0000001  Loc  00001 00675
COMMAND ===>                                                SCROLL ===> CSR
Main Commands: ASSIST, LEFT, RIGHT = record scroll, UP, DOWN = field scroll
Display  mode:C           Format, Standard, Hex, Compact      Editmode: UNPROT
Copybook name:$CBKCOB     member name, *=member list           Filemode:  SAVE
BT01-COMPANY ................. 001BT01  RENEWAL-DATE................. +19930703
BT01-SUB-COMPANY ..................  00  BT01-REWRITE-DATE................... +0
BT01-MEMBER-NUMBER ..............  11111  BT01-AGENT-NUMBER.................. 168
BT01-POLICY-SUFFIX ................  101  BT01-CNCL-NOTICE-DATE................ +0
BT01-RECORD-TYPE ..................  01  BT01-CNCL-REASON.....................15
BT01-UNIT ........................ 0000  BT01-CNCL-DATE...................... +0
```

This mode is similar to formatted mode. Field descriptions are omitted to allow as many fields on a screen as possible.

How does an Edit/Browse session look in HEXD mode?

An example of an edit session in HEXD Display mode is shown below:

```
FMV/VxRx-EDIT── $CBKCOB─ MACS.FMARVEL.VxRx.DE Rec 0000001 Loc 00001 00675
COMMAND ===>                                                SCROLL===> CSR
Main Commands: ASSIST, LEFT, RIGHT = record scroll, UP, DOWN = offset scroll
Display  mode: H          Format, Standard, Hex, Compact      Editmode: UNPROT
Copybook name: $CBKCOB    member name, *=member list           Filemode: SAVE
Dec    Hex      1.2.3.4. 5.6.7.8. 9...11 .. 13..15..       1...5....10...15
00001  KEY>   * F0F0F1F0 F0F1F1F1 F0F0>             *   * 0000000100       *
00011  001A   * F1F0F1F0 F0F0F0F0 F0F3F501 9930103C *   * 10100000035.r..  *
00027  002A   * 01992121 6C404040 40404040 40019910 *   * .r..%       .  r.  *
00043  003A   * 828C0199 30103C01 9930703C 00000000 *   * b..  r....r....... *
00059  004A   * 0C000000 000C0000 00000C01 9701231C *   * ............p... *
00075  005A   * 01993070 3C000000 000CF1F6 F8000000 *   * r........168...  *
******************************** Bottom of Record*****************************
```

Both the hexadecimal and the printable representation of the data can be overtyped.

Can I edit/browse a subset of records in a dataset?

With FileMarvel you can specify multiple criteria connected by and/or logic to select only the records to edit/browse. An example of selecting records for edit/browse is illustrated below.

Record selection is requested on the Edit entry panel. Enter "Y" in the "Apply selection criteria" field to use the selection criteria on the Edit entry panel shown below.

```
FMV/L02-Edit----------------- Edit - Entry Panel -------------------------
 COMMAND ===>

  Data set name . .  'FMARVEL.VXRX.DEMOFILE'
                             *= relate list, qualifier.*=data set list
         Volume . .          For uncataloged data sets

      File mode . .  S       S=standard
   Display mode . .  S       F=format S=standard H=hex C=compact R=reformat
                                                              *=  default
 For FORMAT or COMPACT display mode:
       Copybook . .  CBKCOB   Member name, *=Member list, BLANK=default
        Compile . .  Y        Y=yes, N=no, E=extended
       Language . .  C        C=COBOL, P=PLI, copybook compile language
        Copylib . .
                              qualifier.*=data set list

 APPLY CRITERIA . .  E        Y=yes, N=no, E=extended, R=reformat
      Start key . .
        End key . .
    Start record . .  00000001  Starting record number, if key not specified
    Record count . .  00000001  Number of records to process
```

This edit entry panel displays an edit session with records containing the string "OUTSTANDING" between the columns 1 and 200. Notice the additional ability to select records based on key. You can also skip a number of records and limit the total number of records loaded into the edit/browse session.

For more complex selection criteria use the Extended Record Search Entry panel by specifying "E" in the field "Apply selection criteria" shown above. This allows multiple criteria connected with and/or logic.

This illustration selects records to edit based on multiple criteria using a COBOL copybook.

```
FMV/L02-EDIT-STANDARD--------- Extended Record Search -------------------------
 COMMAND ===>
 Commands: CAN, END, FIND, LC, LR,  RES
                                                          AND/  OR  Picture
 Enter        . .
 FIND         . .
 parameters   . .
              . .
              . .
              . .
              . .
              . .

 Select mode. . . I         I=interactive, C=counts, L=list pds format
 Notify mode  . . N         Y=yes, N=no, notify on search limit
 APPLY CRITERIA . N         Y=Yes, N=no, apply criteria below
 Start key/mem. .
 End key/mem. . .
 Start record . . 00000001  Starting record number, if key not specified
 Record count . . 00000001  Number of records or members to process

 Data set name. . MACS.FMARVEL.V3R1.LLIB.DLIB
```

FIND fields may be primed from a copybook field list by setting a "Y" in the SELECT field and pressing enter.

FileMarvel searches a dataset based on copycode field names and values. Multiple find criteria are entered in the panel above in the "Enter FIND Parameters" fields.

It is not necessary to know the copycode field names. You can obtain a copybook selection list to choose fields. Enter the command "LC". A panel similar to the following is displayed:

```
FMV/VxRx-EDIT-$CBKCOB----- Copybook Record Selection Fields ------------------
COMMAND ===>                                                 SCROLL===> CSR
Main commands: CANCEL, END,  RESET
Line commands: S=Select field element
   Offset Length  Level Type    Using  Picture         Field Name
* ******************************** Top of Data ******************************
S      40     1     10         Char    X              M-STATUS-FLAG
S      41     1     10         Char    X              M-IDENT-FLAG
_      11    26      5 Group                           INV-NO
_      11    11     10 Group                           K-BATES-NO
_      11     6     15         Char    X(6)           K-DATE-ENTERED
_      17     2     15         Char    X(2)           K-AUDITOR
_      19     1     15         Char    X              K-BATCH-NO
_      20     2     15         Char    XX             K-DOC-SEQ
_      11    11     10 Group                           FILLER
_      11     9     15         char    X(9)           K-BATCH-CTL
```

From the copybook field selection list, select the fields to use by entering the "S" line command next to the desired fields.

The Extended Record Search Entry panel is redisplayed with the selected fields presented in the FIND parameters fields ready to complete with search values. This is illustrated on the next page.

Complete the selection criteria and press the RFIND PF key to initiate the search and begin the edit session with the selected records. The example below selects records that contain an "A" in the field "M-STATUS-FLAG" and "I" in "M-IDENT-FLAG" field or the string "COMPANY" in columns 57 through 70.

```
FMV/VxRx-EDIT-$CBKCOB ---- Extended Record Search Entry -------------------------
COMMAND ===>
                                                                  AND/OR Picture
Enter       ===> M-STATUS-FLAG  A                                  AND
FIND        ===> M-IDENT-FLAG   I                                   OR
Parameters  ===> 'COMPANY' 57 70
            ===>
            ===>
            ===>

Notify      ===> Y      (Y=Yes, N=No  - notify on search limit)
Select      ===> Y      (Y=Yes, N=No  - copybook selection field list)

Data set name            MACS.FMARVEL.V1R2.DEMOFILE

Enter the argument string, press the RFIND pf to execute the search
or enter CANCEL to return to the previous panel.
```

An edit session similar to the following is displayed. Only records that match the search criteria are included.

```
FMV/L02-EDIT-$CBKCOB-FMARVEL.VxRx.DEMOFILE ----- R 0000001 C 00001 00675
 COMMAND ===>                                                SCROLL ===> CSR
 KEY        > 0000000100
 Column  Field Name                                Length  ....+....1....+....2
 000001   01 Inv-mstr-rec.....................     675G

 000001 *  05 Rec-key.........................       10G
 000001 *   10 Rec-payee-no...................        10C  0000000100

 000011    05 Inv-no.........................       26G

 000011 +   10 K-bates-no.....................       11G
 000011      15 K-date-enterd.................         6C  123456
 000017      15 K-auditor.....................         2C  08
 000019      15 K-batch-no....................        1C  1
 000020      15 K-doc-seq.....................         2C  07

 000011 -   10 Filler.........................       11G
 000011      15 K-batch-ctl...................        9C  123456081
 000020      15 Filler........................         2C  07
 000022     10 K-item-no.....................       13C
 000035 +   10 K-rec-cd.......................         2C  11
 000035 -   10 K-rec-cd-r.....................         2Z  11
```

Can I search an entire PDS?

FileMarvel allows a "preview" of members containing specified search criteria.

Assume that you now wish to search a PDS for all members containing a STEPLIB.

```
FMV/VxRx-EDIT-STANDARD      ---- Extended Record Search Entry ------------------
COMMAND ===>
                                                          AND/OR Picture
Enter       ===> STEPLIB
FIND        ===>
Parameters  ===>
            ===>
            ===>
            ===>
Option      ===> Y       (Y=Yes, N=No  - list form for PDS search)
Notify      ===> Y       (Y=Yes, N=No  - notify on search limit)
Select      ===> N       (Y=Yes, N=No  - copybook selection field list)
Data set name            Your.PDS
      Enter the argument string, press the RFIND pf to execute the search
      or enter CANCEL to return to the previous panel.
```

"Option" is only presented when searching a PDS.

The result is a member selection panel similar to the following. Only members containing the search criteria are shown. Below each member selection line, a portion of the member containing the search string(s) is shown. You can then scan through the selection list and select only the members you want to edit.

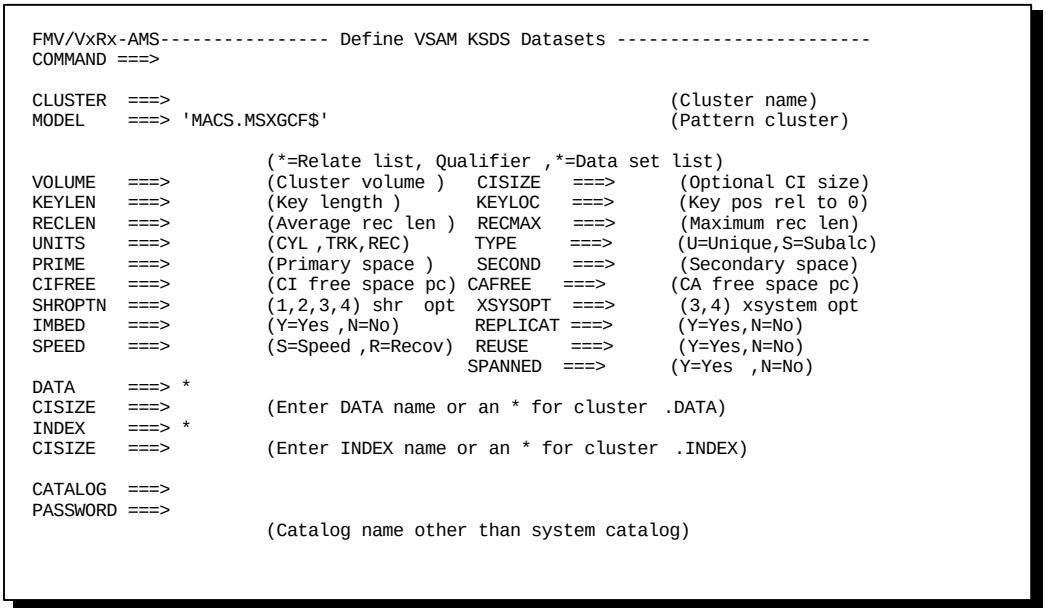
```
FMV/VxRx EDIT------- Your.PDS ---------------- -       Line  0000001 of 0000012
COMMAND ===>                                             SCROLL ===> CSR
Main cmnds: C=change, F=find, Reset, Save, X= exclude      Line cmnds: S=select
  ....+....10...+....20...+....30...+....40...+....50...+....60...+....70...+..
* ******************************* Top of Selected Records ******************
  Name     Action    VV.MM  Created      Changed      Size  Init Mod Userid
_ $A                 01.05  10/25/96  01/23/97 08:36    58    60   5 GKH1
  ------------------------------------------------------------------------------
  //STEPLIB   DD DSN=MACS.TRA61.LOADLIB,DISP=SHR                          00276
  //STEPLIB   DD DSN=MACS.TRA61.LOADLIB,DISP=SHR                          00330
  ------------------------------------------------------------------------------
_ $AC                01.07  10/30/96  03/19/97 08:34    92    92  12 GKH1
  ------------------------------------------------------------------------------
  //STEPLIB  DD DSN=&INDEX..SDFHLOAD ,DISP=SHR                            00010
  //STEPLIB   DD DSN=MACS.TRA61.LOADLIB,DISP=SHR                          00013
  //STEPLIB   DD DSN=MACS.TRA61.LOADLIB,DISP=SHR                          00016
  ------------------------------------------------------------------------------
* ******************************* Bottom of Selected Records ***************
```

Can I do a "CHANGE ALL" on an entire PDS?

Yes. One way is to enter the CHANGE ALL command directly from the member selection panel shown previously.

Can I Define a VSAM file using FileMarvel?

Yes. A panel similar to the following is used to allocate VSAM datasets. You can use an existing dataset as a "model" to prime the allocation parameters. FileMarvel also allows the storage of allocation parameters for use later.



```
FMV/VxRx-AMS---------------- Define VSAM KSDS Datasets -----------------------
COMMAND ===>

CLUSTER  ===>                                                (Cluster name)
MODEL    ===> 'MACS.MSXGCF$'                                 (Pattern cluster)

                     (*=Relate list, Qualifier ,*=Data set list)
VOLUME   ===>        (Cluster volume )   CISIZE   ===>      (Optional CI size)
KEYLEN   ===>        (Key length )       KEYLOC   ===>      (Key pos rel to 0)
RECLEN   ===>        (Average rec len )  RECMAX   ===>      (Maximum rec len)
UNITS    ===>        (CYL ,TRK,REC)      TYPE     ===>      (U=Unique,S=Subalc)
PRIME    ===>        (Primary space )    SECOND   ===>      (Secondary space)
CIFREE   ===>        (CI free space pc) CAFREE   ===>      (CA free space pc)
SHROPTN  ===>        (1,2,3,4) shr  opt  XSYSOPT  ===>      (3,4) xsystem opt
IMBED    ===>        (Y=Yes ,N=No)       REPLICAT ===>      (Y=Yes,N=No)
SPEED    ===>        (S=Speed ,R=Recov)  REUSE    ===>      (Y=Yes,N=No)
                                         SPANNED  ===>      (Y=Yes  ,N=No)
DATA     ===> *
CISIZE   ===>        (Enter DATA name or an * for cluster  .DATA)
INDEX    ===> *
CISIZE   ===>        (Enter INDEX name or an * for cluster  .INDEX)

CATALOG  ===>
PASSWORD ===>
                     (Catalog name other than system catalog)
```

Can FileMarvel Provide a Dataset Selection List?

Yes. Dataset selection lists of generic dataset names or of all datasets on a volume can be obtained. The panel below is an example of obtaining a selection list via a generic dataset name.

```
FMV/VxRx------------- CATALOG INFORMATION DISPLAY ---------------------------------
 COMMAND ===>
 Specify catalog level or data set name and press ENTER or the END key to exit.

 DATA SET LEVEL   ===> 'FMARVEL.VxRx'
```

A panel similar to the following is displayed:

```
 FMV/VxRx-------------- DATA SET LEVEL DIRECTORY ---------------------------------
 COMMAND ===>
 Main commands: LDS (level ,ALL), RESET, END, DOWN, LEFT, RIGHT, UP
 Line commands: A=alloc, AE=esds, AK=ksds, AR=rrds, B=browse, DEL=delete, E=edit
                L=list, P=print, R=rename, S=info, SCR=scratch, UNC=uncat, V=view
     Dataset                                          Type    Volume Devt Create
*** *************************** Top of List ***********************************
___ FMARVEL.VxRx.CLIB                               NONVSAM  ISC100 3380 93.139
___ FMARVEL.VxRx.CLIBV                              NONVSAM  ISC100 3380 93.139
___ FMARVEL.VxRx.CONTROL                            VSAM     ISC100 3380 93.139
___ FMARVEL.VxRx.DEMOFILE                           VSAM     ISC100 3380 93.139
___ FMARVEL.VxRx.COPYLIB                            NONVSAM  ISC100 3380 93.139
___ FMARVEL.VxRx.LLIB                               NONVSAM  ISC100 3380 93.139
*** ************************** Bottom of List *********************************
                                                                          .
```

Datasets may be processed using selection characters shown in the above panel. You can allocate, browse, delete, edit, browse, list, print, rename, scratch, uncatalog, view or obtain dataset allocation information.

The panel below is an example of obtaining a selection list from a VTOC:

```
FMV/VxRx-LISTVTOC---------------- VOLUME DATA SET DISPLAY ----------------------
COMMAND ===>

         VOLUME  === >              Enter volume, group, class or * for vollist)
                                   Classes: PRIVATE, PUBLIC, STORAGE or ALL
                                   Example:  STG001      STG*       STORAGE
 DISPLAY OPTION  ===> L            (L=dslist, D=dataset, S=summary, E=extended)
          PRINT  ===> N            (Y=Yes, N=No, Print volume in batch mode

Apply selection criteria ===> Y    (Y=Yes, N=No, E=Extended - use criteria below)

 DATA SET LEVEL  ===>
                                   (List specific datasets - ex. TEST)
    FROM RECORD ===> 00000001      (Starting record number)
   RECORD COUNT ===> 99999999      (Number of records to process)
    FIND STRING ===>  X'0200'       83
```

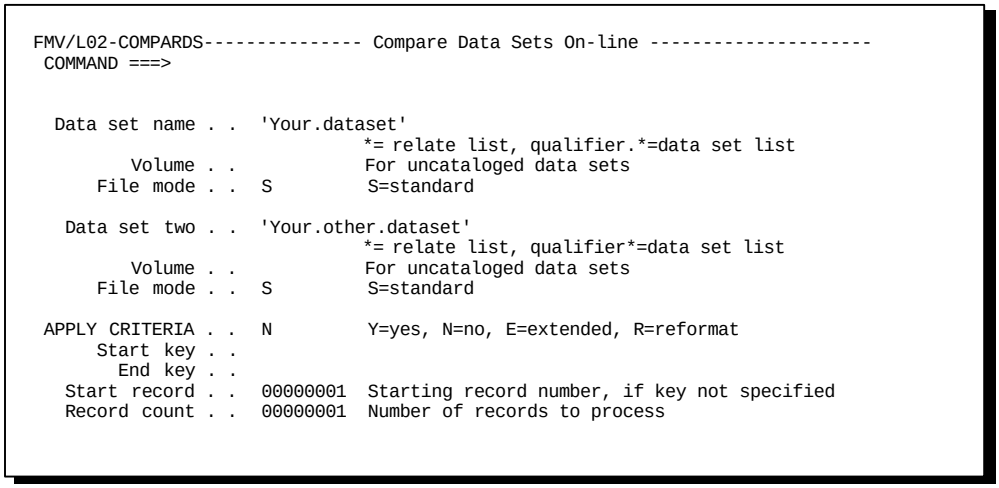
A panel similar to the following is displayed:

```
FMV/VxRx-LISTVTOC---------------- DATA SET LIST FOR: P390DX---------------------
 COMMAND ===>                                                SCROLL ===> CSR
 Main cmnds: CMP, FMT, HEX, STD, LDSN, LVOL (vol ,vol*,CLASS) END, RESET, SCROLL
 Line cmnds: A=alloc, AE=esds, AK=ksds, AR=rrds, B=browse, CAT=catlg, DEL=delete
     E=edit, L=list, P=print, R=rename, S=info, SCR=scratch, UNC=uncat, V=view
     Data set name                              Dsorg Recfm  Lrecl  Blksz Extn
 *** *************************** Top of List ***********************************
 ___ *** ____________________________________________________________________
 ___ *** Unit type    = >    3390 Tracks/Cyl   =>      15 Total tracks =>   26550
 ___ *** Free tracks  = >    5275 Free cyls    =>     351 Free extents =>       8
 ___ *** Ctig tracks  = >    3375 Ctig cyls    =>     225 Trk capacity =>   47968
 ___ *** Total dscbs  = >     742 Free dscbs   =>     557 Volume       =>  P390DX
 ___ *** ____________________________________________________________________
 ___ USERCAT.P390DX                             VSAM  U         0    4096    1
 ___ SYS1.VVDS.VP390DX                          VSAM  ?          0    4096    1
 ___ USERCAT.P390DX.CATINDEX                    VSAM  U         0    4096    1
 ___ CICS.TZN.CSI.DATA                          VSAM  U         0    4096    1
 ___ CICS.TZN.CSI.INDEX                         VSAM  U         0    4096    1
 ___ CICS.DZN.CSI.DATA                          VSAM  U         0    4096    1
 ___ CICS.DZN.CSI.INDEX                         VSAM  U         0    4096    1
 ___ CICS.ADFHAPD1                              PDS   FB        38   23446   1
 ___ CICS.ADFHAPD2                              PDS   FB        227  23381   1
 ___ CICS.ADFHCLIB                              PDS   FB        80   23440   1
 ___ CICS.ADFHCOB                               PDS   FB        80   23440   1
 ___ CICS.ADFHC370                              PDS   FB        80   23440   1
 ___ CICS.ADFHINST                              PDS   FB        80   23440   1
 ___ CICS.ADFHLANG                              PDS   FB        80   23440   1
```

Datasets may be processed using selection characters shown in the above panel.

Can FileMarvel compare two datasets?

Yes, you can even compare datasets with different DSORG's. You can compare the entire dataset or only selected records. You can compare the entire record or only selected fields. You can also compare PDS's containing source code or loadlib members.



This document shows only a few of the features that FileMarvel provides. Please contact Mackinney Systems for more details.

FREE 30-DAY TRIAL

Call (417) 882-8012 for a
FREE 30-day trial of FileMarvel or download from
www.mackinney.com

OPERATING SYSTEMS

Requirements:
MVS - CICS 2.1 or above
Call for details

FILEMARVEL PRICES

depends on CPU group size ranging from
Group 10 through Group 80

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