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**Installation Manual Version 3 Release 3
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Introduction

What is FileMarvel?

FileMarvel accesses and maintains data files. It provides browsing, editing, comparing, copying, printing, sorting, defining, and other data manipulation capabilities to files that are not handled by ISPF, or are handled in a limited way, due to the file organization (VSAM, BDAM, sequential or tape). FileMarvel uses the familiar ISPF interface.

FileMarvel also provides two important functions: the ability to access files using their record layout (COBOL or PL/I copybooks) and the ability to access extremely large files without increasing the region size or causing excessive system paging.

Environments Supported

FileMarvel requires one of the following operating systems:

MVS/OS390 Version 1 or later

MVS/SP Version 3 Release 1 or later (MVS/ESA)

MVS/SP Version 2 Release 1.2 or later (MVS/XA)

ISPF Version 2 Release 3 or later

Installation Cart Files

The installation cartridge is labeled (SL) in IEBCOPY format and contains 4 files.

Description	Data set	Dsorg	Recfm	Lrecl	Blksize
1. Installation JCL	FMV.V3R3.JCL	PO	FB	80	3120
2. Panel library	FMV.V3R3.PLIB	PO	FB	80	3120
3. Load library	FMV.V3R3.LLIB	PO	U	0	19069
4. System control data set	FMV.V3R3.SYSTEM	VSAM	VB	13000	13004

Installation Internet Files

On the PC the INTERNET module FMV33_INSTALL.EXE should be saved in a FileMarvel PC folder. The member is self-extracting file and when double clicked will expand to installation files. The files listed below then require transmission to the mainframe. The file transfer is described in the manual FMV33_INSTALL_README.

PC File	Mainframe Transmit File	Mainframe Converted Files
FMV33_XMIT_JCL.XMI	flq.slq.XMIT.JCL	flq.slq.JCL
FMV33_XMIT_LLIB.XMI	flq.slq.XMIT.LLIB	flq.slq.LLIB
FMV33_XMIT_PLIB.XMI	flq.slq.XMIT.PLIB	flq.slq.PLIB
FMV33_XMIT_SYSTEM.XMI	flq.slq.XMIT.SYSTEM	flq.slq.SEQ.SYSTEM

Installation

Installation Checklist

The installation checklist presents a summary of the installation process. The checklist applies for new installations as well as for replacing a previous version of FileMarvel with a newer version.

- Read the topic "Installation Process Overview".
- Allocate and load or transmit the FileMarvel installation libraries.
- Set the installation options and execute the installation.
- Add FileMarvel as a new option on the main ISPF menu.
- Add FileMarvel commands to the ISPF command table.
- Execute on-line FileMarvel testing.
- Make the LOGON procedure accessible to users.
- Execute the post installation processing

Optional Special Feature Installation

Step 1: PANVALET™ and CA-LIBRARIAN™ access

Step 2: ISPF BROWSE and EDIT VSAM access

Step 3: Tape and Cartridge access

Phase 1 Installation

Step 1: Installation Process Overview

The installation process usually takes less than one hour. The installation process allocates new files so it can be performed while existing ISPF users are active.

Installation of FileMarvel does not require an IPL nor does it require APF authorization. Since FileMarvel is invoked through libraries allocated via the LOGON procedure or CLIST, it can be installed on a system-wide basis or for a selected group.

FileMarvel is reentrant and with the exception of a few modules and resides above the 16-megabyte line. In MVS/XA, MVS/ESA, OS/390 and ZOS working storage is primarily acquired above the line. Therefore, there is no need to increase the region size.

The installation is accomplished by means of an installation routine in which installation steps are presented automatically, already modified and ready for submission. The only exceptions are the preliminary steps required to execute the installation routine. Every attempt should be made to follow the steps of the installation routine.

Data set naming conventions

- The first level qualifier **FLQ** for standard FileMarvel datasets is **FMV**. The parameter **FLQ** may be modified and additional qualifiers may be added (i.e. change **FLQ(FMV)** to **FLQ(YOUR.FLQ)**). The installation routine will change most of the installation steps and procedures but some preliminary steps must be manually changed prior to installation.

Example: **FLQ(VEND)**
FLQ(VEND.FMV)

- The VSAM data set first level qualifier **VFLQ** for all FileMarvel VSAM datasets is **FMV**. The parameter **VFLQ** may be modified and additional qualifiers may be added (i.e. change **VFLQ(FMV)** to **VFLQ(YOUR.VSAM.VFLQ)**). If you do not isolate your VSAM data sets into a separate catalog or a separate naming convention, then make the **VFLQ** the same as the **FLQ**.

Example: **VFLQ(VENDV)**
VFLQ(VENDV.FMV)

- The second level qualifier **SLQ** is the version and release level and is designated as **V3R3**. The parameter **SLQ** identifies the version and is set to **SLQ(V3R3)**.

Example: **SLQ(V3R3)**
SLQ(FMV.V3R3)

- The last-level qualifier specifies the FileMarvel file type. For example: the qualifier for the panel library is **PLIB**. This level must be left untouched.

Example: **VEND.FMV3R3.PLIB**

About the **SYSTEM** and **USER CONTROL** files

The VSAM **SYSTEM** and **USER** control files contain the pertinent current version information such as **HELP**, clist execs and options. The **SYSTEM** control file also contains accumulated release independent user information such as profiles, record layout definitions and dataset associations. If a security package is used, ensure all users have authority to update the file. **RACF** users must have **CONTROL** authority and **ACF2** users require **UPDATE** authority.

USER control files are files connected to the **SYSTEM** control file such as previous version **CONTROL** files as well as **FEATURE** files as **COPYBOOK**, **MAIL** etc. **RACF** rules apply to these files as specified above to the **SYSTEM** control file.

If FileMarvel is to reside on multiple CPUs, the VSAM **SYSTEM** and **USER** control files may be shared assuming shared dasd is available. See topic Cross System Access with Shared Dasd.

Step 2: Allocate and Load the FileMarvel JCL Library

The FileMarvel JCL library contains job streams required to install and maintain FileMarvel. The following illustrates the JCL needed to allocate the FileMarvel JCL library and load it from either the installation cartridge or the **INTERNET**. **If the installation files were received via the INTERNET and reside on a PC then use the INTERNET method to load the files onto your system.**

Installation cartridge

The JCL load procedures use the volser name **FMARVL**. If your tape management system requires a different volume name, change the JCL accordingly.

- Change the **JOBCARD** to meet installation requirements.
- Specify the tape device-type name **CART**.
- Specify the **FLQ** (**FMV**) and the **SLQ** (**V3R3**) that will be used through out the installation.
- Specify the direct access unit **SYSALLDA** and the volume serial number **VOLSER** for the JCL library.
- The **CART** is required.
- Submit the JCL and check the results.

```

//JOB CARD
//COPYJCL EXEC PGM=IEBCOPY
//SYSUT1 DD DSN=FMV.V3R3.JCL,
// DISP=(OLD,KEEP),VOL=SER=FMARVL,
// UNIT=CART,LABEL=(1,SL) <- CHG
//SYSUT2 DD DSN=FLQ.SLQ.JCL, <- CHG
// UNIT=SYSALLDA,VOL=SER=volser, <- CHG
// DISP=(NEW,CATLG,DELETE),SPACE=(CYL,(3,0,56)),
// DCB=(DSORG=PO,RECFM=FB,LRECL=80,BLKSIZE=3120)
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
COPY INDD=((SYSUT1,R)),OUTDD=SYSUT2

```

This completes the installation CART/TAPE JCL load process.

Installation internet

The file transfer is described in the manual FMV33_INSTALL_README. Follow the procedures in the manual to allocate, transmit and convert the PC installation files to the mainframe. On completion of the PC file transmission processes, the following files will be available for FMV installation.

Step 3: Start the Installation

This step executes the installation routine. Execution of each step must be completed successfully before continuing to a next step. **Save the JES2 output until the completion of the install since the output may be required to resolve problems.**

Set Installation Symbols

Using the ISPF editor, edit member **INSTALL** in the install JCL data set flq.slq.JCL.

- Modify the symbol **FLQ** and **SLQ** on the PROC statement to your choice in Step 1.
- Modify the symbol **CLIB** on the PROC statement to indicate the CLIST data set record format type. **CLIB** indicates a fixed block record format and **CLIBV** indicates a variable record format.
- Modify the symbol **INSTALL** on the PROC statement to indicate the input installation source. **CART** indicates a cartridge and **NET** indicates a file transfer from the INTERNET.
- Press the END pf to save the member.

Member INSTALL

```
/*-----*/
/*      FMV INSTALLATION PHASE 1      */
/*-----*/
PROC 0   FLQ(FMV)           +   <- change
         SLQ(V3R3)         +   <- change
         CLIB(CLIB)        +
         INSTALL(NET)      <- change to CART for cartridge installation
```

Execute the Installation.

As each step is processed, read the explanation in the manual associated with the step. This procedure presents each member in edit and the member is either saved or submitted for batch processing. Each member line to be changed is marked with the indicator: <- CHG. **Do not exit a step** until the JES output of the job has been viewed using split screen. Issue FIND 'COND CODE' on the executed JCL output to view the condition codes for each JCL step.

Note: The installation is re-start able as well as refreshable. It may be discontinued at any time for any reason by exiting the remainder of the steps. The installation may then be initiated at the beginning or resumed from the discontinued point. The files do not need to be deleted and reloaded since the file allocation & load step may be bypassed and the remainder of the installation will remain the same.

- Split the ISPF panel and use a JES sysout display facility to view the results of each job submission. **Save all JES output** until the entire installation is complete in case problem analysis is required.
- On the ISPF command entry line enter the command :

TSO EXEC 'flq.slq.JCL(INSTALL)'

- The following steps are presented for installation submission. Each panel step is specified with the term PRESENTATION.

PRESENTATION – MODIFY JOBCARD

Edit the member **JOBCARD** in the JCL library and prime the jobcard according to system specifications. Modification of the JOBCARD is required for it is used repeatedly in the installation. Delete any unused comments on the JOBCARD and press the End pf to save the JOBCARD.

PRESENTATION – ALLOCATE & LOAD TAPE FILES

If the Internet installation is being done, bypass this step

This step allocates and loads all FileMarvel data sets.

Installation tape or cartridge

Edit member **JCLLOAD** in the JCL library. This job stream allocates each of the required libraries and loads the files from tape or cartridge.

- Copy the member **JOBCARD**.
- Modify the symbols **FLQ, VFLQ, SLQ and VSLQ**.
- Modify the symbol **TAPEUNT** to a valid tape device-type for your installation.
- Modify the symbol **WORKUNT** to a dasd esoteric name.
- Modify the symbol **DASDVOL** to the dasd volume serial on which the FileMarvel datasets will be allocated.
- Modify the symbol **DASDUNT** to a dasd esoteric name for **DASDVOL**.
- The **CART/TAPE** is required.
- Submit the job stream and check the results.
- Press the **END** pf to continue.

PRESENTATION – SET INSTALLATION OPTIONS

Edit member **OPTIONS** in the JCL library. This member contains the symbolic parameters required by the subsequent JCL jobs for proper installation. Set the symbolics described below and press the **END** pf to save the member.

Symbol	Description
TRIAL(YES)	Set the trial status. YES indicates this is a trial. NO indicates this is an upgrade. Set to NO if this is an upgrade.
INSTALL(NET)	Set the input install medium. CART is a cartridge. NET is a file transmission from the internet.
FLQ(FMV)	Set the FLQ data set name identifier. Do not wrap with quotes. A two level qualifier is allowed. Example: VENDOR.FMV
VFLQ(FMV)	Set the VSAM VFLQ data set name identifier. Do not wrap with quotes. If the data set naming conventions do not isolate VSAM data sets, then use the same qualifier as is used for FLQ . A two level qualifier is allowed. Example: VVENDOR.FMV

SLQ(V3R3)	Set the SLQ data set name identifier (The default is recommended). Do not wrap with quotes. A two level qualifier is allowed. Example: V3R3.TRIAL
DASDVOL(??????)	Set the dasd volser used for allocation of the FileMarvel installation JCL data set.
DASDUNT(SYSALLDA)	Set the dasd device type for &DASDVOL used in JCL load.
WORKUNT(SYSALLDA)	Set the dasd device type used for temporary data set allocation used in batch procs.
PROCLIB(??????)	Set the target system proclib data set name set without quotes to which the FileMarvel JCL procedures will be copied to. Example: SYS2.PROCLIB
SYSPROC(??????)	Set the common target TSO SYSPROC data set name, shared by all the TSO logon procedures, without quotes to which several FileMarvel CLIST procedures will be copied to. Example: TSO.SYSPROC
USERID(??????)	Set your TSO userid.
CODE(provided)	Set the provided FileMarvel authorization code provided with this manual.

Options

UNIX(YES)	Yes to permit access to UNIX processing, NO to prohibit UNIX access.
-----------	---

Upgrade only

Depending on what previous version of FMV, select one of the three techniques described below.

- If the previous version is **V3R2**, select the **Connect V3R2 technique** to connect the V3R2 CONTROL file as a subordinate CONTROL file to the V3R3 SYSTEM file. No file merge is done. (Recommended)
- If the previous version is **V3R2** and you desire to merge the **V3R2 CONTROL** contents into the **V3R3 SYSTEM** file, select the **Merge V3R2 technique**.
- If the previous version is **V3R1**, a conversion is required so select the **Convert V3R1 technique**.

Connect V3R2 technique

If this is an upgrade and the previous version is V3R2 or greater and you desire to connect the previous version to the current version, then process this step. This option can alternatively be accomplished at a later time described in the post processing section. If during the installation, access to the previous version CONTROL dictionary is not available i.e., due to LPAR restrictions, then connect the previous version CONTROL dictionary at a later time.

Note: Connecting the user CONTROL file to the SYSTEM file may result in a small delay in initialization while entering FileMarvel. If this is intolerable for your installation, then the user CONTROL file may be merged into the SYSTEM file at any time after installation.

CONNECT (none)	Enter the previous version VSAM CONTROL data set. To connect the previous version VSAM CONTROL file to the current V3R3 system in order to access the previous version's copybooks, profiles, etc. The connection may be done at a later time using the on-line CONTROL OPTIONS function.
----------------	---

Merge V3R2 technique

If this is an upgrade and the previous version is V3R2 and a merge is desired rather than a CONNECT, then set the options below to merge the V3R2 previous CONTROL file into the V3R3 SYSTEM file.

PVERSION(V3R2)	Provide the FileMarvel version currently installed from the previous release. Copybooks, profiles, and data set lists will be copied from this version to a SYSTEM file ready for access by the V3R3 version.
----------------	---

V3R2 previous release

PCONTROL(none)	Provide the name of the installed V3R2 CONTROL dataset from the previous release without quotes. The previous version must be V3R2 or later to connect the previous version to the current version. Any version prior to V3R2 must be converted for V3R3 to access it. Example: VENDOR.FMV.V3R2.CONTROL
----------------	--

Convert V3R1 technique

If this is an upgrade and the previous version is V3R1 or less, then set the options below in order to convert and merge the previous CONTROL file. V3R1 CONTROL dictionaries are not compatible with the V3R3 installation. The merge function will convert all appropriate records from the previous versions into the current SYSTEM control file.

PVERSION(V3R1)	Provide the FileMarvel version currently installed from the previous release. Copybooks, profiles, and data set lists will be copied from this version to a CONTROL ready for access by the V3R3 version.
----------------	---

V3R1 previous release

PCONTROL(none)	Provide the name of the installed V3R1 CONTROL dataset from the previous release without quotes. Any version prior to V3R2 must be converted for V3R3 to access it. Example: VENDOR.FMV.V3R1.CONTROL
----------------	---

PRESENTATION – PREPARE INSTALLATION MEMBERS

Edit member **JCLPREP** in the JCL library. This member alters all the installation members according to the options set above. JCLPREP creates the following member JCLINST.

- Copy the **JOBCARD** member.
- Modify the symbols **FLQ**, **SLQ** and **CLIB**.
- Submit the job stream and check the results.
- Press the END pf to continue.

PRESENTATION – INSTALLATION INTERNET

If a Tape or Cartridge installation is being done, bypass this step

Edit member **JCLLOADN** in the JCL library. This job stream allocates each of the required libraries and converts the transmission files to the installation formatted files.

- Copy the member **JOBCARD**.
- Modify the symbols **FLQ**, **VFLQ**, **SLQ** and **VSLQ**.
- Modify the symbol **DASDVOL** to the dasd volume serial on which the FileMarvel datasets will be allocated.
- Modify the symbol **DASDUNT** to a dasd esoteric name for **DASDVOL**.
- Submit the job stream and check the results.
- Press the END pf to continue.

PRESENTATION – INSTALL FILEMARVEL

The following step describes member **JCLINST** which installs FileMarvel. This member should have already been primed and ready for submission. Scroll through the member to validate that all indicators **<-CHG** have been changed to **<-CHGD**. Submit this job and check the results.

The following describes the inclusive steps.

- Copy the FileMarvel batch JCL procedure to the system proclib.
- Copy several TSO clist procedures into a common **SYSPROC** library.
- Copy a single message member to the common **ISPF ISPMLIB** library.
- Set the SYSTEM control file options. This step sets specific symbols and options used to assist batch and maintenance processing.
- Print a record from the VSAM SYSTEM control data set.
- Run a batch test

PRESENTATION – CONVERT & MERGE CONTROL FILES

If this a trial and the option TRIAL(YES) was set in the option setting, then bypass this step.

If this is an upgrade and the previous version is V3R2 or greater, then bypass this step.

If this is an upgrade, the options TRIAL(NO), PVERSION(V3R1) and PCONTROL(dsname) were set in the option setting, then process this step.

The following step describes member **JCLMERG** which converts and merges the versions V3R1 or less. **CONTROL** files for V3R1 or less must be converted prior to use of copybooks, profiles, residing in those files. This member should have already been primed and ready for submission. Scroll through the member to validate that all indicators **<-CHG** have been changed to **<-CHGD**. Submit this job and check the results.

The following describes the inclusive steps.

- Allocate the V3R3 VSAM USER CONTROL file.
- Copy all the appropriate records from the previous version CONTROL file to the V3R3 USER CONTROL file.

- If the CONNECT() option is set, then connect the USER CONTROL file to the SYSTEM CONTROL file.
- Submit the job stream and check the results.
- Press the END pf to continue.

PRESENTATION – TEST THE INSTALLATION

To test proper installation, enter the following command on any ISPF command line. This execution will temporarily add the command FMV33 to your in-core ISPF command table. There is no visual response to this execution unless an error occurs.

TSO EXEC 'flq.slq.JCL(FMV33ADD)

- After executing the above command, enter the following command on any ISPF command line and entry will be made into the FileMarvel primary option panel.

FMV33

- This concludes the Phase 1 installation.

Phase 2 Installation

Phase 2 of the installation prepares FileMarvel for installation in the TSO/ISPF environment. At the conclusion of Phase 2, FileMarvel should be ready for use by the application or testing groups.

Step 1: ADD a Selection on the ISPF Main Menu

This step adds FileMarvel as a new option on the ISPF main menu. Some installations use the standard PDF main menu ISR@PRIM others use main menus (for example ISR@MSTR).

Determine Which Panel to Change

Perform the following steps to determine the name of the ISPF main menu:

- Start the ISPF session.
- On the main menu enter the command:

PANELID ON

- The name of the panel to modify is displayed in the upper left hand corner.

Modify the Panel

- Determine the library where the main menu is found.
- Backup the panel in case of error.
- Edit the member, adding FileMarvel as a new option to the panel.
- In the)BODY section, add a description line where "n" is an unused selection number or letter.

n FMV - Invoke FileMarvel Primary Option Menu

- In the)PROC section, add the following line to the options, based on the allocation method chosen.

- For the LIBDEF technique, add:

n,'CMD(FMV33) '

- When adding lines to the body of the panel, do not exceed 24 lines unless the panel is scrollable. If necessary, list the options available in two columns.
- Save the member.

Panel Error Recovery

If ISPF cannot be started due to panel errors, invoke ISPF edit directly from TSO READY mode by entering:

ISPF PGM(ISREDIT)

Using the editor, correct the main panel or copy the backup panel.

Step 2: Add the FileMarvel command to ISPCMDS commands table

To give the user the ability to enter FileMarvel from any ISPF panel, FileMarvel commands are added to the ISPF in-line command table, **ISPCMDS**. To make the **FMV33** command permanently available each time you log on, ISPCMDS table must be updated with the **FMV33** entry.

- From ISPF enter the DIALOG TEST function
- Enter 4 or Tables display or modify
- Enter the table name ISPCMDS for modification
- Enter 4 to add a row
- On the variables panel enter
 - **ZCTVERBFMV33**
 - **ZCTTRUNC 0**
 - **ZCTACT CMD(%FMV33) NEWAPPL(FMV) PASSLIB**
- Save the table entry and then save the table member ISPCMDS
- Logoff from TSO and relogon to TSO and then enter the command FMV33 from any TSO/ISPF command line and the FMV primary option menu should be displayed.

Step 3: Prepare to Release FileMarvel to the User Group

- Logoff and re-logon to the TSO LOGON procedure.
- Enter FileMarvel via the selection menu modified on the ISPF selection panel.
- Invoke the selections within FileMarvel.
- Leave FileMarvel by pressing the END pf.
- If the **FMV33** command was added to the ISPF command table, test the fast path command to FileMarvel by entering **FMV33** on the command line.
- FileMarvel is now completely installed and ready for use. Release the trial system to an application group for testing. If special features are desired, then check the “SPECIAL FEATURE” topic.

Phase 3 Post Installation

Step 1: Post Installation Processing (UPGRADE only)

After a period of testing time, this step will set the test version as the production version of Filemarvel.

The previous version CONTROL file will be connected to this version and will replace the previous version PROCLIB member FMVBATCH.

- Enter the following command on the ISPF command entry line:

TSO EXEC 'FLQ.SLQ.JCL(INSTPOST)'

- Edit member **JCLPOST** in the JCL library. This job copies JCL procedures into a system proclib and replaces the previous version of FMVBATCH.
 - Copy the member **JOB CARD**.
 - Scroll through the JCL stream for <-**CHGD** indicator validation.
 - Check the target proclib symbol **&PROCLIB**.
 - Submit the job and check the results.
 - Press the END pf to save the member.
- **JCLPOST** also copies the clists required to enable entry into FileMarvel from ISPF 3.4. The copy replaces the previous version of FMVISPF and FMVISPS\$.
 - Scroll through the JCL stream for <-**CHGD** indicator validation.
 - Check the symbolics **&FLQ, &SLQ** and **&CLIB**.
 - Check the target sysproc symbol **&SYSPROC**.
 - Submit the job and check the results.
 - Press the END pf to save the member.

This concludes post processing and the installation of FileMarvel. If a duplicate set of installation data sets is desired, then proceed to Step 2 of Phase 3. If special features are desired, then check the "SPECIAL FEATURE" topic.

Special Feature Installation

Bulletin Board Display

If desired, a bulletin board may be displayed on the primary option menu. The bulletin board may be used to notify users of FileMarvel changes, “How to Use FileMarvel” techniques, suggestions, etc. Member topics may be created, deleted or altered as well as disabling the display entirely.

- To enable or disable the Primary Option Menu bulletin board.
 1. Enter **CONTROL** on any FileMarvel panel command line.
 2. Enter **OPTIONS** or 5.
 3. Enter **OPTIONS** or 1.
 4. Select **FMARVL** from the member directory display.
 5. Modify the option **FMVOBULL** to **YES** or **NO** depending on whether the bulletin board is to be displayed.
 6. Press the END pf to save the member.
 7. Exit and re-enter FileMarvel. If topics exist, and the bulletin board will be displayed.

- To create, delete or alter bulletin board topics.
 1. Enter **UBULL** on any FileMarvel panel command line.
 2. Select **SYSTEM** from the group directory. The **SYSTEM** group notice directory will be displayed.
 3. Enter **LISTAST/LA** to display the assist commands.
 4. Select a new topic by entering S ‘topic name’. Select or delete existing topics by entering ‘S’ or ‘D’ line commands respectively.
 5. Exit and re-enter FileMarvel and the change will be reflected.

Connect a Secondary CONTROL Data Set

A secondary CONTROL VSAM data set may be used to store all user dependant information in order to maintain a level of independence from the CONTROL VSAM installation data set that comes with FileMarvel. Storing user dependant information into the separate user CONTROL data set makes the user information version independent. The installation of the next version of FileMarvel requires a connection of the CONTROL file to the CONTROL to activate user information with no file merges required into the CONTROL data set.

If the previous version of FileMarvel is V3R2, then a connection may be made using the V3R2 CONTROL data set as the CONTROL data set for the V3R3 CONTROL data set. Using this technique both data sets may be shared between V3R2 and V3R3 systems. Any prior version to V3R2 requires the allocation of the CONTROL data set and the merge of the V3R2 user information into the V3R3 CONTROL data set. At this point the newly created CONTROL data set may be connected to the V3R3 CONTROL data set.

- To connect or disconnect the CONTROL VSAM data set.
 1. Enter **CONTROL** on any FileMarvel panel command line.
 2. Enter **OPTIONS** or 5.
 3. Enter **CONNECT** or 4.
 4. Enter **CONTROL** or 1.
 5. Enter the CONTROL VSAM data set name to connect to the CONTROL data set. Enter an * in the data set name field to remove the CONTROL connection to the CONTROL data set.
 6. Press the END pf to save the member.

7. Exit and re-enter FileMarvel.

The next time entry into FileMarvel is made the **CONTROL** data set will be used to save user information.

Cross System Access with Shared Dasd

If FileMarvel is desired on several CPUs using shared dasd, the FileMarvel data sets including the **CONTROL** VSAM data set may be set to be shared between CPU's. FileMarvel uses the **ENQUE** process to preserve the integrity of the **CONTROL** file in order to serialize use. FileMarvel may be changed to use across CPU's using shared dasd by using the **RESERVE** process to serialize use. However, if CTC or software reserve simulation ring processors are not in play, this process will lock from the other CPU the dasd device which the **CONTROL** data set reside on. System or simulation routine reserve tables must be modified to include the major reserve name **FMVDICT** and the minor 44 character data set name for the **CONTROL** VSAM file.

- To enable the **RESERVE** process, follow the steps below.
 1. Enter **CONTROL** on any FileMarvel panel command line.
 2. Enter **OPTIONS** or 5.
 3. Enter **OPTIONS** or 1.
 4. Select members **BATCH** and **FMARVL** from the member directory display.
 5. Modify the option **FMVDICT** from **ENQ** to **RESERVE** to activate the reserve process.
 6. Press the END pf to save the members.
 7. Exit and re-enter FileMarvel.

Tape and Cartridge Label Display

Tape and cartridge labels may be displayed with the batch processor. Two methods may be used i.e., dynamic allocation of the device or external JCL to allocate the unit. If external JCL is used, no requirements are necessary. If the dynamic allocation technique is desired, the level of the operating system may require APF authorization. An SVC assignment is required to permit authorization. See the topic "Special Function APF Authorization" to accomplish this.

The **LABEL** function of the batch processor permits the display of tape labels and the Basic Execution Language (BXL) manual describes the use of the function as well as the online **LABEL** function assists in the generation for the controls for batch submission.

One of the options TSO notification which displays the label as a TSO notification also requires special authorization. See the topic "Special Function APF Authorization" to accomplish this. Upon completion follow the following steps to activate TSO notification.

- To enable or disable TSO notification.
 8. Enter **CONTROL** on any FileMarvel panel command line.
 9. Enter **OPTIONS** or 5.
 10. Enter **OPTIONS** or 1.
 11. Select members **BATCH** and **FMARVL** from the member directory display.
 12. Modify the option **FMVONTFY** to **YES** or **NO** to turn on notification.
 13. Press the END pf to save the member.
 14. Exit and re-enter FileMarvel.

Tape and Cartridge Online Access

Tape and cartridge data sets may be access online but the level of the operating system will require APF authorization for dynamic allocation. An SVC assignment is required to permit authorization. See the topic “Special Function APF Authorization” to accomplish this. On completion of SVC installation, follow the following steps to activate tape and cartridge dynamic access.

- Enter FileMarvel and select the function **CONTROL**, then select **OPTIONS**, then select **OPTIONS** again and finally select the member **FMARVEL**.
 1. Enter the SVC number in the field **FMVOSVCU** selected above to activate the svc.
 2. Set the field **FMVOMONT** to ON to permit allocation of offline devices.
 3. Set the field **FMVOMNTP** to ON to permit tape or cartridge allocation.
 4. Set the field **FMVOTAPE** to the generic name for tape devices.
 5. Set the field **FMVOCART** to the generic name for cartridge devices.
 6. Press end so save the changes for the FMARVEL application only.

Special Function APF Authorization

If desired, some functions within FileMarvel require that FileMarvel run in an authorized state. Some of these functions, include viewing JES output and issuing tape or cartridge mounts for BROWSE or EDIT, require authorization. Since TSO does not run in an authorized state, FileMarvel will require the use of a SVC to get into an authorized state.

A user SVC is provided in FileMarvel with the name FMVSVC and must be copied to SYS1.LPALIB and renamed to an appropriate IBM standard SVC name. For example, if SVC 232 were selected, rename FMVSVC to IGC0023B. IBM has reserved the svc range of 220-255 for the user community and the assigned number must be within this range. If you dedicated an SVC to a previous version of FileMarvel, you may use that SVC.

- The SVC number you choose must be a type 3 or 4. Enter the entry below in SYS1.PARMLIB(IEASVC00) and copy member FMVSVC to SYS1.LPALIB and rename it to IGC002xx. For example:

SVC Parm, 2xx, REPLACE, TYPE(4), EPNAME(IGC002xx)

- Enter the FileMarvel name for LLIB in SYS1.PARMLIB(IEAAPF00) to authorize the library.
- During the next IPL the CLPA option must be done in order to load the SVC into the MVS PLPA page data set.

Now attempt to perform the authorized function within FileMarvel and if a S047 abend occurs, the installation was not performed properly.

Running FileMarvel from LPALIB or LINKLST

Most FileMarvel modules are reentrant and may optionally be copied to LPALIB. FileMarvel programs are reentrant to be shared among multiple users. If FileMarvel is placed in LPALIB, the time and EXCP overhead of loading each module before execution will be eliminated.

Since most of FileMarvel can reside above the line (under MVS/XA, MVS/ESA, and OS/390), extended LPA can be used. A sample job to copy the reentrant FileMarvel load modules to the LPA is provided in member **JCLLPA** in the FileMarvel JCL library. Remember that the copied modules will not be recognized by the system until the next time an IPL with CLPA is done (unless you have a

dynamic LPA change facility). After the modules are recognized by the system as residing in LPA, remove the load library allocation from ISPLLIB.

Accessing Very Large Files

When an MVS address space allocates very large amounts of memory, it may cause excessive system paging and impact the entire system performance. This impact may be incurred if a TSO user is allowed to have a large region size and edits very large files with ISPF edit.

FileMarvel attempts to minimize this problem by controlling the amount of virtual memory it will use when editing or browsing large files. Rather than rely on the system paging mechanism, FileMarvel uses a temporary file as a user-based "virtual paging device". Being user-based, it only impacts the specific user who accesses a large file, with no impact on other jobs or users in the system. If ISPF EDIT is used to access very large files (with observed negative impact on paging or a requirement to increase the TSO region size), it is suggested that FileMarvel edit be used to edit these files.

Vendor Product Special Feature Installation

PANVALET™ and CA-LIBRARIAN™ Access

This step activates copy code access from PANVALET or CA-LIBRARIAN with FileMarvel programs. If copy code is kept only in PDS data sets, skip this step.

The following procedure associates special programs with PANVALET or CA-LIBRARIAN libraries:

- Enter FileMarvel
- Enter the command **CONTROL**.
- Enter the selection for **RELATEDS**. This presents a System Dataset Directory.
- Enter the command "S FMARVEL" to select or create a new entry.
- Enter a description under "DESCRIPTION".
- Enter the data set(s) under "Data set Name".
- Enter "I" under M.
- Leave the fields under "Copybook" blank.
- Enter the program name under "Eipname".
 1. "FMVXPAN" - for a PANVALET™ library.
 2. "FMVXLIB" - for a CA-LIBRARIAN™ library.
- Any number of data sets may be added
- Press PF3 to save the member and return to the main menu.

ISPF BROWSE/EDIT prompt panel VSAM entry to FileMarvel

Recent versions of ISPF provide the capability to pass **VSAM** data sets to FileMarvel via the ISPF BROWSE/EDIT prompt panels as well as the ISPF 3.4 panel.

To determine whether ISPF contains this capability, enter the ISPF config panel by executing TSO %ISPCCONF, then 1 for CREATE/MODIFY and then 2 for EDIT/VIEW/BROWSE VSAM Settings. If the config panel contains the VSAM EDIT/VIEW/BROWSE capability, then follow the procedure below to install the capability.

- Modify the ISPF config panel containing the VSAM enablement for BROWSE/EDIT/VIEW Commands invoked clist to **FMVISPF**, retain the passed parameters as they are and press the END pf. The new ISPF config module must then be updated for permanent status.

Example: VSAM Edit Command .. **FMVISPF VE** / <= Dataset name will be placed here

- Edit members **FMVISPF** and **FMVISPF\$** in the FileMarvel **CLIB**.
- Modify the symbols **FLQ** and **SLQ**.
- Press the END pf to save the members.
- Copy both members from the FileMarvel **CLIB** to a common **TSO CLIST** library.
- Test installation accuracy by entering a VSAM data set name in the BROWSE/EDIT prompt panels.

FileMarvel co-existing with SPIFFY™

SPIFFY has the capability to invoke FileMarvel for invocation of VSAM data set access on the ISPF BROWSE/EDIT panels. Follow the procedure below to install the capability.

- Execute the SPIFFY config clist and determine the name specified CLIST for VSAM invocation.
- Edit members **FMVSPFY** and **FMVISP\$** in the FileMarvel **CLIB**.
- Modify the symbols **FLQ** and **SLQ**.
- Press the END pf to save the members.
- Rename **FMVSPFY** to the name specified in the SPIFFY config panel.
- Copy both members from the FileMarvel **CLIB** to a common TSO **CLIST** library.
- Test installation accuracy by entering a VSAM data set name in the BROWSE/EDIT prompt panels.

Security Packages (RACF™, ACF2™, PCF II™, Top Secret™)

FileMarvel uses only documented system interfaces and does not bypass any standard security mechanisms.

If security is used to control access to files, provide all users with read access to the FileMarvel libraries and update (and read) access to the CONTROL File.

Add FileMarvel commands to the security product's list of allowable commands.

Licensing & Maintenance

Setting Permanent License Authorization

To enter a permanent password for FileMarvel in a single CPU environment, perform the following steps:

- Edit member **CONFIG** in the JCL library.
- Set the VSAM CONTROL data set name.
- Set the authorization code or codes for a multi-cpu environment and save the member.
- Edit member **JCLAUTH** in the JCL library.
- Copy the **JOBCARD** member.
- Modify the symbols **FLQ** and **SLQ**.
- Submit the job and check the results.
- Press the END pf to save the member.

Applying FileMarvel Maintenance

There are two forms of FileMarvel maintenance, **AMASPZAP** zaps and Basic Execution Procedures. Basic Execution Procedures may need to be compiled and linked into the CONTROL file.

All maintenance is given a maintenance identifier number. When the maintenance is applied, the maintenance identifier number is registered in FileMarvel. This number is in the form **FMV33nnn** where nnn is the zap number.

It is recommended that maintenance be applied and tested with a duplicate copy of the production ISPLLIB load library. After testing has been completed, the maintenance may be applied to the production dataset. This procedure is optional.

- Allocate a new ISPLLIB load library dataset and copy your production load library to the test load library. This dataset will be used for maintenance and testing.
- Edit member **FMVTSO** from the FileMarvel CLIST library. Modify the **FMV** load library name in the call statement and save the member. This CLIST is used to test any maintenance applied to the test system.

Maintenance consists of **AMASPZAP** control statements. Use your own AMASPZAP JCL or use the following procedures:

- Place the maintenance in the FileMarvel JCL library with the member name of the maintenance identification number provided, i.e. **FMV33nnn**.
- Edit member **JCLZAP** in the FileMarvel JCL library.
- Copy the member **JOBCARD** to this member. Modify the dataset name **FLQ** and **SLQ**.
- Enter the member name in the variable **MEM=FMV33nnn**. Check that SYSLIB ddname is correct. Submit the job stream. Check the results for proper completion.
- Upon completion and proper testing, apply the maintenance to the production library. The maintenance will not apply to the users until they logoff and log back on. If the maintenance is applied to LPALIB or a LINKLST library, a CLPA or LINKLST refresh must be done for the maintenance to be activated.

To test FileMarvel, use the CLIST **FMVTSO**. FMVTSO may be used to access FileMarvel without ISPF, therefore a new TSO LOGON proc will not be needed to access the test ISPLLIB load library. This procedure is optional.

- Logoff TSO and then log back on.
Enter **TSO FMVTSO** on any ISPF command entry line. The TSO FileMarvel main selection menu will appear.
- On the TSO FileMarvel main menu, enter the command **SYSTEM MAINTLOG**. The maintenance log will be displayed with a list of applied maintenance identification numbers listed under the Numb columns. Verify the one applied is listed and return to the main menu of TSO FileMarvel.
- Test the applied maintenance by executing the function to which the maintenance applies.

Basic Execution Procedures Maintenance

- Copy the procedure member to the JCL library as the member name, i.e. **PRCxxxx**.
- Edit member **JCLCMPL** in the FileMarvel JCL library. Modify the data set **FLQ** and **SLQ**, set **MEM=PRCxxxx**, and submit the procedure to be compiled and linked. Check the results for a proper completion.
- Submit a batch job to test the new procedure.

Appendix A Required TSO Logon DDnames

The JCL below illustrates the ddnames required for a TSO LOGON procedure.

```
//ISPLLIB DD DSN=FLQ.SLQ.LLIB,DISP=SHR
// DD
//ISPPLIB DD DSN=FLQ.SLQ.PLIB,DISP=SHR
// DD
//ISPMLIB DD DSN=FLQ.SLQ.MLIB,DISP=SHR
// DD
//ISPTLIB DD DSN=FLQ.SLQ.TLIB,DISP=SHR
// DD
//SYSPROC DD DSN=FLQ.SLQ.CLIB,DISP=SHR
// DD
```

When concatenating libraries in MVS prior to Version 4, ensure that the blocksize of the first library in the concatenation is the largest. Achieve this by specifying DCB=BLKSIZE=nnn (where nnn is a large block size) in the DD card of the first concatenated file or by concatenating an empty library with a large block size ahead of the rest of the libraries. Most FileMarvel load modules are fully reentrant and can be copied to LPALIB or any other system library. For performance reasons, LPALIB is recommended.

ISPLLIB load library: Add the load library FLQ.SLQ.LLIB to the ISPLLIB DD concatenation.

ISPPLIB panel library: Add the panel library FLQ.SLQ.PLIB to the ISPPLIB DD concatenation.

ISPMLIB message library: Add the MLIB library FLQ.SLQ.MLIB to the ISPMLIB DD concatenation.

ISPTLIB table library: Add the table library FLQ.SLQ.TLIB to the ISPTLIB DD concatenation.

SYSPROC clist library: Add the CLIST library FLQ.SLQ.CLIB (or CLIBV, if your CLIST libraries are variable length) to the SYSPROC DD concatenation.

Appendix B Release Changes

The following list of changes have been incorporated to the V3R3 version of FileMarvel.

Function	Description
AUTOEXEC	Add commands to AUTOEXEC from other functions
Br/Ed/Sel	New edit commands to edit members within members
COMPAREO	New offline compare function
COPYO	New offline copy function
DEMO	New online demonstration to assist functionality
DUMPMV	New dump data set analysis function
LABEL	New offline print tape/cartridge label function
SOURCE	New source storage function
SUBMIT	New offline submit JCL function
COMPAREDS	File compares may now be done using compiled copybook templates.
COPYDS	VSAM KSDS data sets with FILEMODE=R (replace) will now add new records as well as replace records with the same keys. VSAM KSDS data sets with FILEMODE=E (extend) will now add new records only.
COPYBOOK	New REN/R line command within the directory displays of COMPILE, SOURCE, OBJECT, REFORMAT and FINDEXT permits the renaming of members
CUT&PASTE	Records may now be cut&pasted from/to files permitting split screen record transfers and development of test data sets
FILL	Fields may now be filled with values within the EDIT of files or PDS members using the new FILL command
LINEAR	Linear VSAM data sets are now supported in BROWSE/EDIT
LISTNUM/LN	New operand XRBA will display VSAM rbas instead of record line numbers
LISTVTOO	New offline dasd dataset list function
LMODMAP	New UTILITY function to display linkedited load modules info, hexdump and revert source code
MAIL	An inter office mail system provides a method of communication between users
PRINTX	Standard, Hex, Hex dump, Reformat, hex reformat, Copybook Format and Compact are now supported for print requests
QR/QRL	New quick reference command QR/QRL displays all commands permitted within an edit session.
RECORD	New file mode access of "R" (record mode) has been introduced in BROWSE/EDIT for quick file access
SAVE	The BROWSE/EDIT save command contains new parameters in order save files/members to the external data sets or internal source directory
SET/EDIT	New field has been added for a rolling message counter in order to display record counts during file loads/compares/searches.
SPACEO	New offline dasd free space function
WILDCARD	Data set name WILDCARD patterns may now be entered in most functions
UNIX	New UNIX file BROWSE processing
UTILITY	New set of utilities function