

Advantage™ VISION:Inform® for CICS®

Installation Guide

4.0



Computer Associates®

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Introduction

Thank you for choosing Advantage™ VISION:Inform® 4.0 for CICS. Before you install the software, read this chapter for important information.

This book describes how to install VISION:Inform for CICS. Any questions regarding the installation should be directed to Computer Associates Technical Support. For more information, see [Contacting Computer Associates on page 1-9](#).

About this Book

Read this chapter to acquire an understanding of the elements and processes that comprise the installation of VISION:Inform at your site.

Read the subsequent chapters in this book before starting the installation process so that you can have all of the details regarding the installation, customization, and maintenance of VISION:Inform.

Audience

The System Programming Group is usually responsible for software product installation and maintenance because of their SMP/E (System Modification Program Extended) knowledge. This book assumes a working knowledge of the SMP/E Facility and its processes.

A basic standalone SMP/E installation and maintenance approach is presented. For the knowledgeable SMP/E user, there is enough information provided in this book, and the supplied JCL and Control Statements, to allow integration with any site specific SMP/E standards. For the SMP/E novice, this book and the SMP/E documentation should provide enough of the information and concepts you need to complete the SMP/E installation process.

OS/390 SMP/E Facility

Starting with release 4.0 of VISION:Inform, the installation and maintenance is managed by and under the control of the OS/390[®] SMP/E facility as provided by IBM. This process differs significantly from previous releases (3.1 and prior) of VISION:Inform.

License Management Program

VISION:Inform uses the Computer Associates License Management Program (LMP), which provides a standardized and automated approach to the tracking of licensed software.

Installation Process

VISION:Inform is delivered on a tape cartridge. An LMP Product key certificate contains your execution key for each CPU licensed at your site. Other identifying information is provided on the external tape cartridge label.

Save all output generated during the installation, along with the system tape, for future reference.

The basic SMP/E setup and installation process is identical for all users. The first file on the system tape contains JCL for a job that transfers all the remaining system tape files to disk data sets. Once the system tape files are transferred to disk, you will have all of the elements that you need to prepare and complete the installation, customizing, and maintenance processes.

System Tape

The VISION:Inform system tape supplied for the OS/390 environment is a standard labeled tape cartridge containing 13 files. The following table shows the order and content of the 13 files on the tape.

File	Description
1	SMP/E control library
2	JCL library
3	Macro library
4	Source library
5	VISION:Inform system load library

File	Description
6	FINANCE test file
7	Sample definition library
8	Definition Processor panel library
9	Definition Processor message library
10	Definition Processor skeleton library
11	Definition Processor CLIST library
12	VISION:Inform DBRM library
13	VISION:Inform utility library

Installation Overview

The VISION:Inform installation is divided into the following sections:

- [Licensing Requirements on page 1-3](#)
- [Coding and Integrating Your Licensing Key on page 1-4](#)
- [Load System Tape on page 1-5](#)
- [SMP/E Setup and the Basic Installation on page 1-6](#)
- [Setups and Customizing on page 1-7](#)

Licensing Requirements

VISION:Inform interfaces with the Computer Associates Licensing System using the CA TNG Framework for OS/390 Common Services CAIRIM and its CA-LMP facility, which is used to track licensed software.

For more information regarding the CA TNG Framework for OS/390 Common Service CAIRIM and its CA-LMP facility, refer to the *Unicenter TNG Framework for OS/390 Reference Guide* and the *Unicenter TNG Framework for OS/390 Installation and Maintenance Guide*.

CA-LMP (License Management Program) is a standardized and automated approach for tracking licensed software. CA-LMP is provided as an integral part of CAIRIM, and is required for VISION:Inform to initialize properly.

If CAIRIM has not already been installed on your system, you must install it before you install and use VISION:Inform. Refer to the *Unicenter TNG Framework for OS/390* documentation, included with your installation package, for information about installing CAIRIM.

Note: Once CAIRIM has been installed or maintained at GenLevel 9212 or above, CA-LMP support will be available for all Computer Associates products that support CA-LMP.

Coding and Integrating Your Licensing Key

The first task for the installation of VISION:Inform is to get your Computer Associates Licensing Key information coded and integrated into the CAIRIM CA-LMP facility. This is a standard function for all Computer Associates software products. You must add a record with your VISION:Inform CA-LMP Execution Key information, as provided on the key certificate, to the the KEYS member in the CAIRIM parameter data set, at the OPTLIB DD statement.

The CA-LMP key certificate you received with VISION:Inform contains the following information:

Field	Description
Product Name	The trademarked or registered product name as licensed for the designated site and the CPUs.
Product Code	A two-character code for the VISION:Inform System.
Supplement	The reference number of your license for VISION:Inform, which may be in the format nnnnnn - nnn.
CPU ID	The code identifying the specific CPU on which VISION:Inform is to be installed.
Execution Key	An encrypted code required by CA-LMP for VISION:Inform initialization. This is also referred to as the LMP Key.
Expiration Date	The date (ddmmmyy) your license for VISION:Inform expires.
Technical Contact	The name of the technical contact at your site who is responsible for the installation and maintenance of this licensed copy of VISION:Inform. This is the person to whom Computer Associates addresses all CA-LMP correspondence.
MIS Director	The name of the Director of MIS (or the person who performs this function at your site). If a person's name is omitted from the certificate, you should supply the actual certificate when correcting and verifying it.
CPU Location	The address of the building containing the CPU on which VISION:Inform is installed.

You must add the CA-LMP execution key information, as provided on the key certificate, to the CAIRIM parameters to ensure that VISION:Inform initializes properly. To define a CA-LMP execution key to the CAIRIM parameters, modify the KEYS member in the OPTLIB data set.

The parameter structure for member KEYS is:

```
PROD(pp) DATE(ddmmmyy) CPU(tttt-mmmm/sssss) LMPCODE(kkkkkkkkkkkkkk)
```

pp	The two-character required product code for VISION:Inform for CICS is 2Q.
ddmmmyy	The CA-LMP licensing agreement expiration date (for example, 31JAN03).
tttt-mmmm	The CPU type and model (for example, 3090-0600) on which the product is to run; required. If the CPU type and/or model are less than four characters, insert blank spaces for the unused characters.
sssss	The serial number of the CPU on which the product is to run; required.
kkkkkkkkkkkkkk	The execution key needed to run the product; required. The CA-LMP execution key can be found on the key certificate that was shipped with the product.

Here is an example of the parameter entry for the CA-LMP:

```
PROD(2Q) DATE(31JAN03) CPU(3090-0600/315109) LMPCODE(5149K01131R08ES)
```

For more information about defining the CA-LMP execution keys using the CAIRIM parameters, refer to the *Unicenter TNG Framework for OS/390 Installation and Maintenance Guide*.

Load System Tape

File 1 on the system tape is a PDS that contains the JCL (LOADTAPE) for a job that transfers all the system tape files to disk data sets. The only JCL that needs to be prepared by the installer is an IEBCOPY JCL to copy the contents of file 1 to a PDS. This JCL is shown in [Figure 3-3 on page 3-6](#) of the chapter called “Installation Instructions” as part of the first step of the installation process.

Once the first system tape file is loaded to disk, you review, tailor, and submit the JCL in member LOADTAPE. This transfers system tape files 2-13 to disk data sets. The main consideration here is the high-level index name assigned to the disk data sets.

[Appendix A, JCL Samples](#) contains an alphabetic list of all the JCL members referenced in the installation procedures. A detail list of the delivered JCL members follows the alphabetic list.

Once all the system tape files are copied to disk data sets, all the elements (JCL, control statements, source, load modules, etc.) needed for the VISION:Inform installation process are available to the installer. At this point, you can save the system tape; you only need the disk data sets to complete the installation process.

See [Chapter 3, Installation Instructions](#) for more information.

SMP/E Setup and the Basic Installation

This portion of the installation process uses the JCL and control statements in the PDS from file 1 on the system tape, INFORM.R40.SMPCNTL. There are jobs that define and allocate the following items:

- SMP/E target and distribution libraries for VISION:Inform
- An SMP/E CSI (Consolidated Software Inventory) library for tracking the activities
- SMP/E work data sets

The SMP/E setup has the following steps:

1. The elements from the indirect libraries, unloaded from the VISION:Inform system tape, are stored into the SMP/E work data sets using the RECEIVE operation. These elements include all the latest PTFs and APARs for VISION:Inform.
2. The SMP/E APPLY processing is performed to update the target libraries based on the Modification Control Statements (MCS) and a SMPJCLIN job stream. Essentially, the elements from the SMP/E work data sets are transferred to the target libraries. These elements include all the latest PTFs.

Note: The APARs are special items and are handled during the Customizing and Setups portion of the installation process.

3. The SMP/E ACCEPT processing is performed to update the distribution libraries based on the Modification Control Statements (MCS) and a SMPJCLIN job stream. The elements from the SMP/E work data sets are transferred to the distribution libraries. This includes all the latest PTFs.

Note: The APARs are special items and are handled during the Customizing and Setups portion of the installation process.

At this point, the SMP/E setup and the basic installation are complete. The target and distribution libraries are synchronized. The SMP/E concept is to APPLY to the target library and test the update/PTF/APAR. If you are not satisfied with the tests, you can RESTORE the modified target elements to their previous state from the distribution libraries. If the modifications perform as expected, you permanently ACCEPT the modifications into your distribution libraries. There is no direct method for undoing modifications once the ACCEPT processing is run.

See [Chapter 3, Installation Instructions](#) for more information.

Setups and Customizing

VISION:Inform setup includes defining the product to CICS, allocating and initializing system files, setting up the Definition Processor, and additional optional steps. This process also includes the VISION:Inform IVP (Installation Verification Process), as well as instructions for copying the SMP/E product libraries to working versions of these libraries.

See [Chapter 3, *Installation Instructions*](#) for more information.

CD-ROM Contents

- Online documentation
- Adobe® Acrobat® Reader software and Acrobat Help

About the Online Documentation

The CD-ROM contains the documentation for VISION:Inform. The documents, called books, are in Adobe Acrobat Portable Document Format (PDF) and are designed for you to read online using the Acrobat Reader.

Each online document contains a table of contents, index, and cross-references.

Note: You can install the online documentation only on a Windows® system.

Installing Online Documentation and the Acrobat Reader

You can install the online documentation on your local hard drive or on a network server. Alternately, you can access the documentation directly from the CD-ROM.

If you do not have Acrobat Reader installed, you can install it from the CD-ROM.

To install the online documentation, the Acrobat Reader, or both:

1. Close all application programs.
2. Insert the CD-ROM into the CD-ROM drive.
3. Click the Start menu and select Run.
4. In the Run dialog box, type: D:\Books\Setup.exe (where D:\ is the CD-ROM drive) and click OK.
5. Follow the instructions. Computer Associates recommends that you install the online documentation in the default directory (C:\ProgramFiles\CA\Advantage VISION_Inform 4.0\Books\) or a directory of your choice (for example, C:\Advantage VISION_Inform 4.0\Books\).

Viewing Online Documentation

Regardless of the location of the online documentation (on a local drive, a network server, or CD-ROM), you can view the online documentation using the following methods:

- In Windows, click the Start menu, point to Programs, point to Advantage VISION_Inform 4.0. Double-click the PDF file name.
- In Windows Explorer, point to the Books directory on the hard drive where you installed the online documentation. Double-click the PDF file name.
- In Windows Explorer, point to the Books directory on the CD-ROM drive and double-click the PDF file name.

Using Adobe Acrobat Reader

Use Acrobat Reader to view the online documentation, adjust the size of the page, and perform searches. For more information, use the Acrobat Help menu.

Contacting Total License Care (TLC)

TLC is available Monday-Friday 7 am - 9 pm Eastern Time in North America and 7 am - 7 pm United Kingdom time. Additionally, 24-hour callback service is available for after hours support. Contact TLC for all your licensing requirements.

Be prepared to provide your site ID for product activation.

To activate your product, use one of the following:

Location	Phone	email
North America:	800-338-6720 (toll free) 631-342-5069	help@licensedesk.cai.com
Europe:	00800-1050-1050	euro.tlc@ca.com
If your company or local phone service does not provide international access, please call your local Computer Associates office and have them route you to the above number.		
Australia:	1-800-224-852	
New Zealand:	0-800-224-852	
Asia Pacific:	800-224-852	
Brazil:	55-11-5503-6100	
Japan:	Not available	JPNTLC@ca.com

Contacting Computer Associates

For technical assistance with this product, contact Computer Associates Technical Support on the Internet at esupport.ca.com. Technical support is available 24 hours a day, 7 days a week.

Architecture and System Requirements

This manual is for those individuals responsible for installing and supporting VISION:Inform. The information helps you install and support VISION:Inform with a minimum of effort. This manual:

- Describes the VISION:Inform architecture, components and requirements. Consult your client software documentation for the capabilities or any restrictions of individual client packages.
- Describes the installation in steps. You can use the checklist, which outlines each step of the installation process, during the installation.
- Describes procedures for verifying that VISION:Inform has been properly installed.
- Provides information for modifying system parameters, diagnosing problems, and reporting problems.
- Describes problem resolution and reporting procedures.

Conventions

When you are reading this book online, the green underlined text indicates a link to a related section or text. Click the green underlined text to go to the section or text.

In JCL, menus, and panels, user input is bold underlined text. (When read online using the Acrobat Reader, user input is blue.) Previously entered user input is bold.

Notes and references to other books are in italics.

VISION:Inform Architecture

VISION:Inform is the server component of Computer Associates' client-server architecture. VISION:Inform consists of a number of components, which are shown in the following figure.

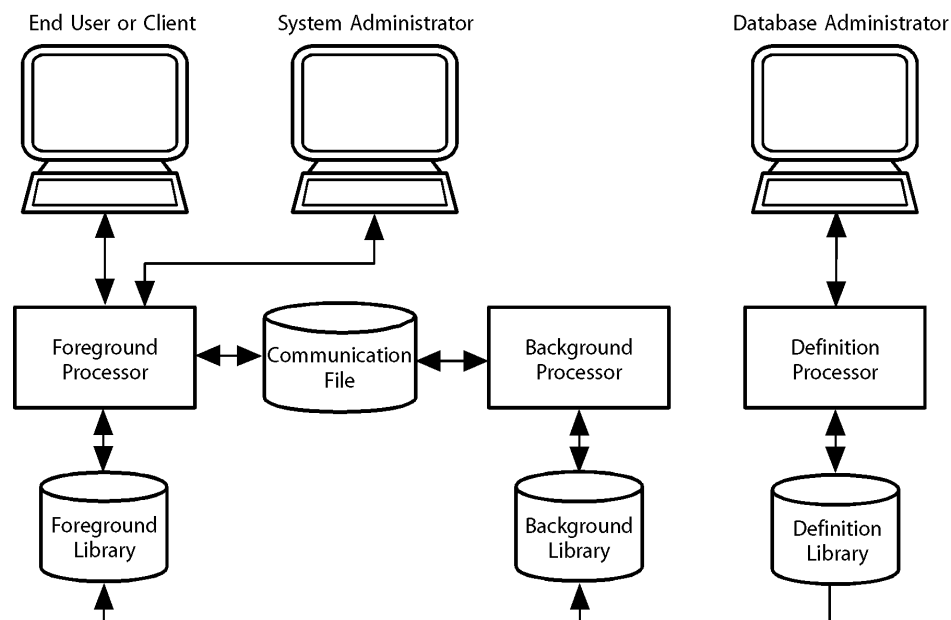


Figure 2-1 VISION:Inform Architecture

VISION:Inform operates in the host environment and communicates with client software products running on workstations and other remote platforms.

VISION:Inform and the client software products work together to provide workstation users with a cooperative processing facility to access virtually any file or data management system supported on IBM® hosts. With the client software product, workstation users can request VISION:Inform to extract selected subsets of data, optionally summarize them, and download them to the workstation to use with other applications.

This chapter describes the capabilities of the VISION:Inform components.

Foreground Processor

The Foreground Processor provides two major functions.

- Provides the system administrator with facilities to define security constraints and monitor and control resource usage.
- Acts as a communications interface to the workstation which enforces the security constraints.

To the online environment in which it operates, the Foreground Processor is just another application program. It conforms to the same design constraints and operating considerations of other application programs running in that environment.

- As a user, you can make requests for data, called queries or tasks, to the Foreground Processor through the client software product.
- The system administrator sets up security procedures using the Foreground Processor to interactively check for internal consistency. The Foreground Processor checks the security profile to verify that the user is permitted to access the data requested or to perform the action requested.

Background Processor

The Background Processor operates in the batch processing areas of your operating system. It contains a program which translates submitted client requests for processing, batches them, if possible, with other requests, and then processes them, either individually or in batches.

The Background Processor retrieves the data and manipulates it according to the request's specifications.

When a Background Processor (for a specific processing class and data view) becomes active, it retrieves a submitted query or task from the communication file where the Foreground Processor stored it. Queries and tasks in the communication file are processed by class within database sequence.

Upon completion of processing, the Background Processor returns output to the communication file. The data remains in the communication file until the client requests delivery through the Foreground Processor.

Definition Processor

The Definition Processor provides a way to develop and maintain your VISION:Inform definitions. VISION:Inform definitions include:

- Table definitions
- Logical data view definitions
- File definitions
- Procedure definitions

The Definition Processor operates in the user friendly ISPF program development environment. In this interactive environment, you can develop your definitions quickly and easily.

The Definition Processor validates all VISION:Inform definitions and then saves them in the definition library. The definition library is a partitioned data set which holds all of your VISION:Inform source definitions. The Promote process compiles selected definitions from the definition library and catalogs them to the foreground and background libraries.

Foreground Library

The foreground library contains definitions used by the Foreground and Background Processors. It contains all of the definitions and user profiles. The definitions permit the Background Processor to recognize and access databases and files. User profiles provide the system security. VISION:Inform promotes definitions from the definition library to the foreground library using the Promote process.

Background Library

The background library contains all of the definitions used by the Background Processor. VISION:Inform promotes definitions from the definition library to the background library using the Promote process.

Definition Library

The definition library is a standard, open-architecture, partitioned data set used by the Definition Processor. It contains all of your VISION:Inform source definitions. When the definitions are ready to be put into production, they are promoted to the foreground and background libraries using the Promote process.

Utility Library

The utility library contains the definitions needed to run some of the VISION:Inform utilities.

Communication File

The Foreground Processor and the Background Processor use the communication file to transmit information between them. Queries and tasks submitted by the client software are stored in the communication file and, if possible, batched when processed. The communication file provides:

- A means for queries and tasks to be transferred from the workstation to the Background Processor.
- A storage medium for queries and tasks to await processing and extracted data to await delivery.

Work Files

The Foreground Processor uses one internal work file and the Background Processor uses three internal work files.

Log Files

Each Background Processor can optionally build log files every time it is submitted for execution. The log files contain information about the Background Processor, the queries and tasks it executes, the databases it processes, and any problems encountered during processing. This information can be made available online and in batch if the sequential log file is saved.

The VISION:Inform system administrator defines what information is written to the log files. The VISION:Inform deliverables include a sample file definition for the log files.

VISION:Inform System Requirements

VISION:Inform Release 4.0 for CICS operates on IBM® or compatible hosts, under MVS/ESA™ Version 4.3 and later, any OS/390™ or z/OS release with CICS/ESA 4.1 or higher, or any release of CICS Transaction Server.

You will need the IBM Language Environment (LE) runtime library.

VISION:Inform supports, without modification, the following terminal types:

- 3277-2 display station
- 3278-2 display station
- 3278-3 display station
- 3278-4 display station
- 3278-5 display station
- 3284 printer
- 3286 printer

Installation Instructions

This chapter explains how to install VISION:Inform and verify the installation. When you finish, you will have the components shown in the following figure.

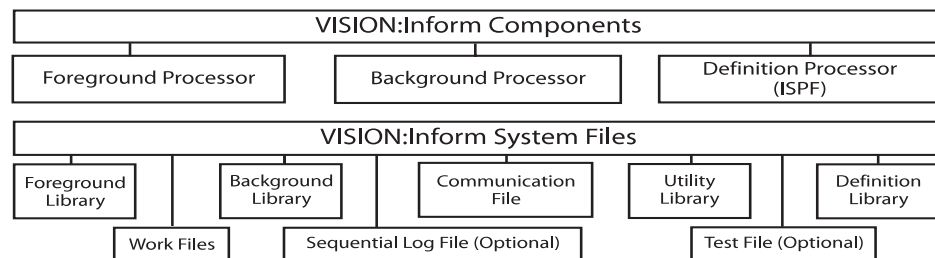


Figure 3-1 VISION:Inform Components

Note: Read all of this chapter before you begin the installation.

This chapter describes:

- Using the VISION:Inform installation check list.
- Copying the installation tape.
- Performing the SMP/E portion of the installation.
- Setting up VISION:Inform.
- Defining VISION:Inform to CICS.
- Setting up the Definition Processor.
- Setting up the COBOL, DB2, and VISION:Results file definition conversion utilities.

Using the Installation Check List

This section provides you with the installation check list.

- This check list summarizes the steps involved in the VISION:Inform installation process. Carefully review this check list and become familiar with each step before proceeding.
- You can use this check list to document and track your progress as you proceed with the actual VISION:Inform installation.

Note: The green underlined text steps (Step 1, Step2, ...) in the checklist are hypertext links to the section by the same title. When you are reading this document online, click the green underlined text to go to the text.

VISION:Inform Installation Check List

Preparation

- _____ VISION:Inform preparation activities
- _____ Browse the documentation to become familiar with the VISION:Inform components. You will use the following manuals during the installation process:
 - _____ Advantage VISION:Inform Installation Guide
 - _____ Advantage VISION:Inform Utilities for CICS
 - _____ Advantage VISION:Inform Messages and Codes

Step 1 — Copying the Installation Tape Files on page 3-5

- _____ Copy the SMP control library file from tape to disk. See [Figure 3-3](#).
- _____ Allocate and load remaining disk files using provided JCL (LOADTAPE).
- _____ Verify the VISION:Inform data sets. See [Figure 3-4](#).

Step 2 — Performing SMP/E Installation Steps on page 3-7.

- _____ Tailor and run the eight SMP/E jobs that are supplied.

Step 3 — Setting up VISION:Inform on page 3-13

- _____ Create working copies of VISION:Inform installation data sets from target libraries.
- _____ Assemble and link optional load modules.
 - _____ For relational support, assemble and link a MARKSQL interface module (DB2CALL or DB2TSO).

VISION:Inform Installation Check List

- _____ To use the PROFILE exit routine feature, assemble and link the PROFILE exit routine (PRXASMLK).
- _____ To use the INFREPT exit routine, assemble and link the INFREPT exit routine (LSXASMLK).
- _____ Customize parameter modules. Optional.
- _____ Modify, assemble, and link PARMBLK(PMBASMLK).
- _____ Modify, assemble, and link M4PARAMS (M4PASMLK).
- _____ Generate BMS maps. Optional.
- _____ Edit the BMS statements.
- _____ Compile and link edit the map sets for VISION:Inform (BMSASMLK).
- _____ Transfer load modules to the CICS program library (TRANSFER). Optional.
- _____ Allocate and initialize VISION:Inform system files.
- _____ Allocate and initialize the foreground library, background library, and communication file (INIT).
- _____ Allocate and initialize work files and sequential log file (ALLOC).
- _____ Create utility library (CREATUTL).
- _____ Create the installation verification test file, FINANCE (CREATFIN). Optional.
- _____ Upgrade from a previous release of VISION:Inform.
- _____ Back up the foreground library, background library, and communication file using the previous release's Backup Utility. Restore with current release's Library Restore Utility.

Step 4 – Defining VISION:Inform Entries to CICS on page 3-20

- _____ Define VISION:Inform to CICS using the DFHCSDUP JCL member.
- _____ Prepare transaction identifiers (GROUP, PROFILE, and TRANSACTION definitions) for the Foreground Processor.
- _____ Prepare PROGRAM and MAPSET definitions for the Foreground Processor.
- _____ Prepare FILE definitions for the Foreground Processor.

VISION:Inform Installation Check List

- _____ Add the necessary statements to the CICS startup JCL for the foreground library, the communication file, and the VISION:Inform online program library.

Step 5 – Setting Up the Definition Processor on page 3-27

Note: Make the IBM Language Environment® run-time library available to the Definition Processor.

- _____ Allocate ISPF data sets.
- _____ Specify the Definition Processor list data sets.
- _____ Specify the utility list data set.
- _____ Pre-allocate the utility data set. Optional.
- _____ Specify default processing parameters. Optional.
- _____ Specify dynamic allocation parameters for the by-product list data set. Optional.
- _____ Set up the Definition Processor start method.
- _____ Add a menu option to your ISPF primary option panel.
- _____ Use the ISPSTART command.
- _____ Perform optional steps:
 - _____ Preprocess the panel library.
 - _____ Activate the Library Management Facility (LMF) support.

Step 6 – Setting up File Definition Conversion Utilities on page 3-34

- _____ Set up DB2 file definition access using the DB2 Quick Start Utility. Optional.
- _____ Bind the DB2 Quick Start Data Base Request Module (DBRM) into a DB2 plan.
- _____ Set up COBOL file definition access using the COBOL Quick Start Utility. Optional.
- _____ Set up VISION:Results file definition access using the VISION:Results Quick Start Utility. Optional.

Step 1 — Copying the Installation Tape Files

The first step of the installation process is to copy the installation tape files to disk.

Reviewing the Installation Tape Contents

Each file on the tape has the data set name `INFORM.CICS.FILE $n$` , where n is the file number on the tape. Review the files on the installation tape, as seen below.

File	Contents
1	SMP/E control library.
2	JCL library.
3	Macro library.
4	Source library.
5	VISION:Inform system load library.
6	FINANCE test file.
7	Sample definition library.
8	Definition Processor panel library.
9	Definition Processor message library.
10	Definition Processor skeleton library.
11	Definition Processor CLIST library.
12	VISION:Inform DBRM library.
13	VISION:Inform utility library.

Figure 3-2 VISION:Inform Installation Tape Files

Copying the First File

Use the JCL shown in [Figure 3-3](#) to copy the first file from the tape to the PDS named `inform.r40.SMPCNTL`.

```
//*****  
//* THIS JOB WILL LOAD THE FIRST FILE ON THE INSTALLATION TAPE, THE *  
//* SMP CONTROL FILE, FROM TAPE TO DISK. FIRST, ADD JOB AND TAPE SETUP*  
//* STATEMENTS, THEN CHANGE ALL lowercase ENTRIES IN THE JOB TO *  
//* APPROPRIATE VALUES FOR YOUR INSTALLATION. *  
//*****  
//* DELETE PREVIOUS SMP/E LIBRARY. *  
//*****  
//STEP1 EXEC PGM=IEFBRI4  
//DELDD DD DSN=inform.r40.SMPCNTL,DISP=(MOD,DELETE), <-----  
// UNIT=sysda,SPACE=(TRK,1) <-----  
//*****  
//* ALLOCATE NEW SMP/E LIBRARY. *  
//*****  
//STEP2 EXEC PGM=IEBCOPY,REGION=2M  
//SYSPRINT DD SYSOUT=*  
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,5))  
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,5))  
//IN DD DSN=INFORM.CICS.FILE1,  
// UNIT=tape, <-----  
// DISP=(OLD,KEEP),  
// VOL=(PRIVATE,RETAIN,SER=nnnnnn), <-----  
// LABEL=(1,SL)  
//OUT DD DSN=inform.r40.SMPCNTL, <-----  
// DISP=(,CATLG,DELETE),  
// UNIT=sysda, <-----  
// VOL=SER=vvvvvv, <-----  
// SPACE=(TRK,(15,5,10)),  
// DCB=(LRECL=80,BLKSIZE=3200,RECFM=FB,DSORG=PO)  
//SYSIN DD *  
C I=IN,O=OUT
```

Figure 3-3 Copy First File JCL

Copying the Remaining files

Note: Green text indicates a [hypertext link](#). Clicking on “Figure” takes you to that figure. Clicking on a chapter or appendix title, takes you to that chapter or appendix.

After you copy the JCL library, use member `LOADTAPE` in `INFORM.R40.SMPCNTL` to copy all of the other files on the tape. You complete the remainder of the installation by modifying and submitting the copied JCL members. Each JCL member consists of one or more instream procedures followed by one or more executions of the procedures.

1. Add appropriate JOB and tape setup statements.
2. Customize the PROC parameters on the EXEC statements, following the PEND statement.

Verifying the VISION:Inform Data Sets

Note: When you finish the VISION:Inform installation, you can delete `INFORM.R40.TEMPFIN` and `INFORM.R40.TEMPUTL`.

The 13 data sets use a total of 680 tracks on a 3390 device. When you finish copying the tape, verify that you have created the following data sets.

DSN	No. of 3390 tracks	DCB Information				Tape File No.
INFORM.R40.DBRM	5 (FB	80	3120	DSORG=PO)		12
INFORM.R40.DEFLIB	30 (FB	80	3120	DSORG=PO)		7
INFORM.R40.INFCLIST	25 (FB	80	3120	DSORG=PO)		11
INFORM.R40.INFJCL	15 (FB	80	3120	DSORG=PO)		2
INFORM.R40.INFLOAD	400 (U	0	32760	DSORG=PO)		5
INFORM.R40.INFMAC	10 (FB	80	3120	DSORG=PO)		3
INFORM.R40.INFMSGGS	15 (FB	80	3120	DSORG=PO)		9
INFORM.R40.INFPANEL	100 (FB	80	3120	DSORG=PO)		8
INFORM.R40.INFSKELS	5 (FB	80	3120	DSORG=PO)		10
INFORM.R40.INFSRC	50 (FB	80	3120	DSORG=PO)		4
INFORM.R40.SMPCNTL	15 (FB	80	3200	DSORG=PO)		1
INFORM.R40.TEMPFIN	5 (VB	3612	27998	DSORG=PS)		6
INFORM.R40.TEMPUTL	5 (VBS	32768	32760	DSORG=PS)		13
Total	680					

Figure 3-4 VISION:Inform Installation Data Sets

Step 2 — Performing SMP/E Installation Steps

At this point, you need to run eight job streams to establish and define the SMP/E CSI and zones, and install the basic VISION:Inform. These job streams are located in the PDS data set loaded from File 1 of the installation tape, INFORM.R40.SMPCNTL. The following members contain these eight job streams for the basic VISION:Inform installation.

Member Name	Function of the Job within this Member
SMPJOB01	Allocate the SMP/E CSI, the SMP/E work data sets and all the associated data sets for the distribution and target libraries.
SMPJOB02	Define the SMP/E global, distribution and target zones.
SMPJOB03	Receive the MCS (Modification Control Statements) and SYSMODs into the SMP/E global zone and work data sets.
SMPJOB04	Receive the PTF and APAR SYSMODs into the SMP/E global zone and work data sets.
SMPJOB05	Apply the SYSMODS (modules and elements) to the target libraries.
SMPJOB06	Apply the SYSMODS (APARs/PTFs) to the target libraries.
SMPJOB07	Accept the SYSMODS (modules and elements) to the distribution libraries.
SMPJOB08	Apply the SYSMODS (APARs/PTFs) to the distribution libraries.

The following members are additional members in the INFORM.R40.SMPCNTL PDS data set that are referenced within the above jobs. These are control statements and SYSMODS (PTFs and APARs).

Member Name	Description
MCSHDR	MCS member - the header and copyright information for VISION:Inform.
MCSINF	MCS member – the VISION:Inform component elements.
MCSBLDR	MCS member - the VISION:Builder engine component elements.
MCSCOML	MCS member - the COMLIB component elements.
MCSWKB	MCS member - the VISION:Inform Definition Processor component elements.
MCSSASC	MCS member - the SAS/C Link Lib (runtime) elements.
CDAC400	The JCLIN (IEBCOPYs) for the distribution and target load libraries.
PTFS	The latest SYSMODS (PTFs) for the VISION:Inform system.
APARS	The latest SYSMODS (APARs) for the VISION:Inform system.

SMPJOB01

Tailor and run job SMPJOB01 from the INFORM.R40.SMPCNTL data set. In this job, you allocate all the data sets needed by SMP/E to manage, control and maintain VISION:Inform and its components. This includes the SMP/E CSI, the associated work data sets, and the distribution and target libraries.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change the "VOLUMES(VOLSER)" parameter in the STEP1 IDCAMS DEFINE CLUSTER statement to point to a valid VOLSER or VOLSER list for the CSI definition.
- Change the high-level qualifier of all datasets from the default of 'INFORM.' or 'INFORM.R40.' to one that meets your site standards. (Do not change the low-level portion of the DSNs.)
- Change the unit allocation from the default 'UNIT=SYSDA' to whatever is proper for your site standards.

Any existing or previously defined data sets of the same names are deleted before the new data sets are allocated.

The following data sets are allocated. They are shown with the default high-level qualifier.

INFORM.R40.CSI	INFORM.R40.CSI.DATA
INFORM.R40.CSI.INDEX	INFORM.R40.SMPPTS
INFORM.R40.SMPMTS	INFORM.R40.SMPSCDS
INFORM.R40.SMPSTS	INFORM.R40.SMPLOG
INFORM.R40.SMPLOGA	INFORM.R40.DISTRIB.INDLOAD
INFORM.R40.DISTRIB.INDMAC	INFORM.R40.DISTRIB.INDSRC
INFORM.R40.DISTRIB.INDJCL	INFORM.R40.DISTRIB.INDCLIST
INFORM.R40.DISTRIB.INDPANEL	INFORM.R40.DISTRIB.INDMSGS
INFORM.R40.DISTRIB.INDSKELS	INFORM.R40.TARGET.INTLOAD
INFORM.R40.TARGET.INTMAC	INFORM.R40.TARGET.INTSRC
INFORM.R40.TARGET.INTJCL	INFORM.R40.TARGET.INTCLIST
INFORM.R40.TARGET.INTPANEL	INFORM.R40.TARGET.INTMSGS
INFORM.R40.TARGET.INTSKELS	

SMPJOB02

Tailor and run job SMPJOB02 from the INFORM.R40.SMPCNTL data set. In this job, you define the VISION:Inform global, distribution, and target zones in the CSI. This is the information needed by SMP/E to manage, control, and maintain VISION:Inform.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous job (SMPJOB01). (Do not change the low-level portion of the DSNs.)
- Find the two occurrences of 'IMS.RESLIB', and change the DSN to that of the IMS system residence library.
- Find the two occurrences of 'CICS.SDFHLOAD', and change the DSN to that of the CICS system load library.
- Find the two occurrences of 'DB2.SDSNLOAD', and change the DSN to that of the DB2 system load library.

SMPJOB03

Tailor and run job SMPJOB03 from the INFORM.R40.SMPCNTL data set. In this job, you RECEIVE the Modification Control Statements (MCS) and VISION:Inform software system elements (SYSMODS) into the global zone and SMP/E data sets.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs (SMPJOB01 and SMPJOB02). (Do not change the low-level portion of the DSNs.)

SMPJOB04

Tailor and run job SMPJOB04 from the INFORM.R40.SMPCNTL data set. In this job, you RECEIVE the PTF and APAR SYSMODS into the global zone and SMP/E data sets.

Note: Prior to VISION:Inform Release 4.0, PTFs were known as SMs (System Modifications) or GSMs (General System Modifications). These types of patches apply to all systems and correct or enhance the software system.

Note: Prior to VISION:Inform Release 4.0, APARs were known as RSMs (Restricted System Modifications). These types of patches only apply, if at all, to sites with unique requirements, or they change the way the product operates, as described in the product documentation.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs. (Do not change the low-level portion of the DSNs.)

Note: After running SMPJOB04, you should retain the SYSOUT dataset with ddname SMPRPT that the job produces. The SMPRPT listing provides a list of the PTFs and APARs received by SMPJOB04, and is used to create the input in the subsequent jobs SMPJOB06 and SMPJOB08.

SMPJOB05

Tailor and run job SMPJOB05 from the INFORM.R40.SMPCNTL data set. In this job, you APPLY the VISION:Inform software system elements (SYSMODS) into the target libraries.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs. (Do not change the low-level portion of the DSNs.)

SMPJOB06

Tailor and run job SMPJOB06 from the INFORM.R40.SMPCNTL data set. In this job, you APPLY the VISION:Inform software system PTF SYSMODS into the target libraries.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs. (Do not change the low-level portion of the DSNs.)
- Change the "APPLY SELECT(NNNNNNN)" to name the APAR/PTF that is to be applied. Change only the 'NNNNNNN' portion of the statement.
- Apply APARS/PTFS one at a time, specifying only one item on each invocation of the procedure.

This job is used in one of two ways:

- During the installation process, to apply the initial PTFs and, optionally, APARS that are delivered with the system.
- After product installation, to apply maintenance to the product when necessary.

When you run this job during product installation, refer to the SMPRPT listing from the SMPJOB04 output. This listing gives you the names of the PTFs that need to be applied in SMPJOB06. Apply each PTF in a separate invocation of the PROC contained in SMPJOB06. All PTFs listed in the SMPRPT output are required; APARs are optional, and usually not needed. If you have questions about the PTFs or APARs, contact Technical Support (see [Contacting Computer Associates on page 1-9](#)).

Note: PTFs must be applied in ascending sequence, by the PTF name.

At this point, the target libraries contain the default VISION:Inform software system.

SMPJOB07

Tailor and run job SMPJOB07 from the INFORM.R40.SMPCNTL data set. In this job, you ACCEPT the VISION:Inform software system elements (SYSMODS) into the distribution libraries.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs. (Do not change the low-level portion of the DSNs.)

SMPJOB08

Tailor and run job SMPJOB08 from the INFORM.R40.SMPCNTL data set. In this job, you ACCEPT the VISION:Inform APAR/PTF SYSMODS into the distribution libraries.

Instructions for tailoring this job are contained in JCL comments within the member. To tailor this job, you must:

- Supply a valid "JOB" JCL statement.
- Change 'INFORM.' or 'INFORM.R40.' to the high-level qualifier value used in the previous jobs. (Do not change the low-level portion of the DSNs).
- Change the "ACCEPT SELECT(NNNNNNN)" to name the APAR/PTF that is to be accepted. Change only the 'NNNNNNN' portion of the statement.
- Accept APARS/PTFS one at a time, specifying only one item on each invocation of the procedure.

This job is used in one of two ways:

1. During the installation process, to accept the initial PTFs and, optionally, APARS that are delivered with the system.
2. After product installation, to accept maintenance to the product when necessary.

When you run this job during product installation, refer to the list of PTFs that you applied in SMPJOB06, which in turn came from the SMPRPT listing from SMPJOB04. This will be the list of PTFs that you accept in SMPJOB08. All PTFs applied in SMPJOB06 must be accepted with SMPJOB08; APARS are optional. Accept each PTF in a separate invocation of the PROC contained in SMPJOB08.

Note: PTFs must be applied in ascending sequence, by the PTF name.

At this point, both the distribution libraries and the target libraries contain the default VISION:Inform software system.

Step 3 — Setting up VISION:Inform

Step 3 of the installation process involves setting up VISION:Inform. This step involves the following:

- Assemble and link optional load modules.
- Customize parameter modules. Optional.
- Generate BMS maps. Optional.
- Transfer load modules to the CICS program library. Optional.
- Create the VISION:Inform system files.

Creating a Working Copy of the Installation Data Sets

At this point in the installation, the SMP/E target and distribution libraries contain identical copies of the VISION:Inform system. The next step is to create the working copies of these libraries and data sets. These working copies will then be used to customize the VISION:Inform system and complete the installation.

There are two steps involved in creating the working libraries:

1. Make a copy of the VISION:Inform load library. Use either job INFCOPY1 or INFCOPY2 from the INFORM.R40.SMPCNTL data set. Both jobs use IEBCOPY to copy the target load library to a working copy. The difference between the two jobs is that INFCOPY1 re-creates the working copy of the load library by deleting and re-allocating it before the target load library is copied. Job INFCOPY2 copies the target load library to an existing load library, with the REPLACE option, and then compresses the working copy of the load library.

Note: The VISION:Inform load library contains load modules that are link edited with the OVERLAY attribute, and cannot be copied from one library to another using the TSO/ISPF Option 3.3 Copy function. Use INFCOPY1 or INFCOPY2 to copy the load library.

2. Make a copy of the VISION Inform CLIST, JCL, MACLIB, MSGS, PANEL, SKELS, and SRCLIB libraries. Use job INFCOPY3 from the INFORM.R40.SMPCNTL data set, which invokes IEBCOPY to copy the target libraries to working copies of these libraries. This job will delete and re-allocate the libraries to be copied.

When this task is complete, you will have the following files (using the default naming conventions supplied in the JCL):

Library Data Set Name	Description of Contents
INFORM.LOADLIB	The VISION:Inform System Load library
INFORM.JCL	The VISION:Inform System JCL library
INFORM.MACLIB	The VISION:Inform System Macro library
INFORM.SRCLIB	The VISION:Inform System Source library
INFORM.CLIST	The VISION:Inform Definition Processor CLIST library
INFORM.MSGS	The VISION:Inform Definition Processor Messages library
INFORM.PANELS	The VISION:Inform Definition Processor Panel library
INFORM.SKELS	The VISION:Inform Definition Processor Skeleton library

These are the names by which these libraries will be referred to for the rest of the installation.

Assembling and Linking Optional VISION:Inform Load Modules

All VISION:Inform load modules will be linked into the load library (INFORM.LOADLIB) that you copied from the VISION:Inform target load library.

Assembling and Linking MARKSQL (optional)

The MARKSQL module contains the SQL statements used by VISION:Inform to access the tables of your DB2 databases. This module must go through the DB2 application program preparation process described in your IBM DB2 Application Programming and SQL Guide.

The MARKSQL module is in member DB2MOD in INFORM.SRCLIB.

The MARKSQL module that comes with the product effectively generates source statements which become the plan required by DB2.

- In the module, the parameter &MAX controls the number of statements in MARKSQL.
- The number of statements in the plan limit the number of tables that can be accessed per file definition by the Background Processor.

Memory Optimized Processing

If you use memory optimized processing on a segment (table), then three statements from MARKSQL are consumed instead of one. This results in lowering the number of tables available when processing the file definition. For example, if n is the number of non-memory optimized segments (tables) and m is the number of memory optimized segments, then the plan requires that $\&MAX > n + 3m$.

Note: Memory optimized processing is discussed in the VISION:Inform Definition Processor Reference Guide, in Chapter 8 in the Files Panel section.

Specifying the Number of Tables

The MARKSQL module (as supplied) provides VISION:Inform with the capability of using up to 50 individual tables. You can change a parameter within the MARKSQL module to access more than 50 tables (increase the parameter value) or to reduce storage requirements (reduce the parameter value). To change the parameter, change the value in the following statement that appears after the introductory comments of the DB2MOD member:

```
&MAX SETA 50  MAXIMUM NUMBER OF SQL STATEMENTS PER APPL
```

Binding the Application Plans

After you preprocess, compile, and link edit the required MARKSQL modules, you need to bind the application plans generated by the DB2 preprocessor.

- You can initiate the BIND function by using DB2I (DB2 Interactive) or by using the DSN command processor running in either foreground or background.
- The Background Processor does not require repeatable read (RR) isolation.
- Specify cursor stability (CS) isolation when binding application plans to provide greater access concurrency to your DB2 tables.

Using BIND REPLACE

If you need to make any changes, you must repeat this entire process. Use a BIND REPLACE, not REBIND, when you perform a new bind. See the IBM DATABASE2 Application Programming and SQL Guide for the environment you are working with for additional information on the bind process.

Sample JCL to install MARKSQL is in INFORM.JCL members DB2CALL and DB2TSO.

You can find listings of DB2CALL ([Figure A-14](#)) and DB2TSO ([Figure A-17](#)) in [Appendix A, JCL Samples](#).

Assembling and Linking PROFILE Exit Routine (Optional)

If you use the PROFILE exit feature, assemble your routine and replace the default PROFILE exit routine shipped with the VISION:Inform system. For details, see [Appendix B, Writing Exit Routines](#).

Use JCL member PRXASMLK in INFORM.JCL to assemble and link your PROFILE exit routine. This job is shown in [Figure A-41, Appendix A, JCL Samples](#).

Assembling and Linking INFREPT Exit Routine (Optional)

If you use the INFREPT exit feature, assemble your routine and replace the default INFREPT exit routine shipped with VISION:Inform. For details, see [Appendix B, Writing Exit Routines](#).

Use JCL member LSXASMLK in INFORM.JCL to assemble and link your INFREPT exit routine. This job is shown in [Figure A-36, Appendix A, JCL Samples](#).

Customizing Parameters in the PARMBLK and M4PARAMS Modules

You can modify parameters in the PARMBLK and M4PARAMS modules.

PARMBLK Parameter Module

If you make changes to the PARMBLK module, assemble and link the changed PARMBLK module for use by VISION:Inform.

Make changes to the PARMBLK module using a text editor to alter the PARMBLK module in INFORM.SRCLIB. You can find a copy of this module and additional information about PARMBLK in [Chapter 5, Modifying VISION:Inform](#).

The PMBASMLK job (for compiling and linking PARMBLK) is shown in [Figure A-36, Appendix A, JCL Samples](#). The JCL is in member PMBASMLK of INFORM.JCL.

Increasing the Foreground Library and Communication File Size

You can increase the size of either the foreground library or communication file after installation by altering the definition of the file in PARMBLK (following the instructions for making the new definition active in the system in [Chapter 5, Modifying VISION:Inform](#)). Changing only the allocation of space to a file will not result in the extra space being used.

M4PARAMS Parameter Module

If you make changes to the M4PARAMS source, you must assemble and link the modified M4PARAMS source to create a new module for use by VISION:Inform.

You can make changes to the M4PARAMS source using a text editor to alter the M4PARAMS module in INFORM.SRCLIB. A copy of this module and additional information about M4PARAMS are in [Chapter 5, Modifying VISION:Inform](#).

The M4PASMLK job (for compiling and linking M4PARAMS) is shown in [Figure A-37, Appendix A, JCL Samples](#). The JCL is in member M4PASMLK of INFORM.JCL.

Generating BMS Maps

BMS Map Assembly (Optional)

Compiled maps are shipped with the VISION:Inform system. They were compiled on CICS Version 4.1. If you are using a later version of CICS, you can recompile the maps, although this is normally not necessary.

Running BMSASMLK

Use BMSASMLK to compile and link edit the map sets for the VISION:Inform system.

To change the names of the map sets, it is not necessary to recompile the maps. The transfer job described later will make the name change for you.

The BMSASMLK job for compiling and linking map sets is shown in [Figure A-2, Appendix A, JCL Samples](#). The JCL is in member BMSASMLK of INFORM.JCL.

Transferring Load Modules to the CICS Program Library (Optional)

You can optionally run the TRANSFER job to copy online programs from the installation load library to a CICS program library.

If you have multiple copies of VISION:Inform with different versions of PARMBLK, make sure you transfer the correct version of PARMBLK when you run this job.

During the transfer step, you can also rename the online modules to conform to your naming standards.

Renaming Modules with the TRANSFER Job

The TRANSFER job can also rename the modules based on the selected prefix.

Note: If the online modules are renamed, TRANSFER creates a file of IBM SUPERZAP control statements when it is executed and it is your responsibility to run the ZAP program using this file as input to the IBM ZAP program (therefore, if you have changed the delivered six-character prefix of the online modules, you must run the ZAP program). Run the ZAP against any library to which the installation load library modules are copied.

The VISION:Inform online module names are composed of a 6-byte prefix and a 2-byte suffix constant. You can change the prefix to any 6-byte character string, but do not change the constant 2-byte suffix.

Note: Do not rename the modules in the installation load library, because the system cannot be maintained if this is done.

VISION:Inform automatically constructs the names of the modules by copying the first six bytes from the name of the entry module into a list it maintains of all modules in the system. The 2-byte suffix uniquely identifies the modules of the system.

The TRANSFER job accepts a parameter up to 6 bytes in length. It replaces the first n bytes up to 6 of the standard name with the characters you specify and then creates IEBCOPY statements to copy all needed modules to another library changing the names to the new names. The default base name of the modules in the installation library is INFORM.

Use the JCL member TRANSFER in INFORM.JCL to transfer load modules. This job is shown in [Figure A-48, Appendix A, JCL Samples](#).

Allocating and Initializing VISION:Inform System Files (Required)

This part of the installation allocates and initializes the required files for execution of VISION:Inform. If you are upgrading from a previous release of VISION:Inform, refer to [Upgrading from a Previous Release of VISION:Inform on page 3-19](#).

INIT JCL —Initializing VISION:Inform Files

The INIT JCL (shown in [Figure A-25, Appendix A, JCL Samples](#)) allocates and initializes three of the VISION:Inform files. This JCL contains three instream procedures: one for the foreground library, one for the background library, and one for the communication file. The JCL contains sample cluster definitions for each of the files using the IDCAMS utility. The INIT JCL is in the INFORM.JCL PDS. The dataset names used for the foreground library and communications file must be the same names used in the DFHCSDUP job.

Data Integrity and Performance

The share options and buffer size allocations shown in the sample JCL for the VSAM cluster definitions are correlated to the LSRPOOL parameter in the CICS File Control Table. Changing values for either of the two parameters can affect data integrity or performance.

If your installation requires changes to LSRPOOL or share options, refer to [Chapter 5, Modifying VISION:Inform](#) or contact Computer Associates Technical Support to determine acceptable combinations and the ramifications to operations.

Note: If you want to define your Foreground Library with VSAM SHAREOPTIONS of (3,3) to enable it for concurrent access from more than one region or CPU, use job **INIT2** instead of INIT to initialize system files. If this option is chosen, you must also use job **LBREST2** instead of LIBREST for the Library Restore Utility, and use job **DFHCSD2** instead of DFHCSDUP when defining the VISION:Inform system to CICS.

ALLOC JCL — Allocating Log and Work Files for the Background Processor

The ALLOC JCL member in INFORM.JCL (shown in [Figure A-1, Appendix A, JCL Samples](#)) initializes a sequential LOG file and three work files. VISION:Inform attempts to continue running despite encountering situations, such as IMS™ PSB problems, JCL problems, insufficient storage for particular queries or tasks, and so on. To inform you of problems encountered and current activity, the Background Processor uses a sequential LOG file and an online LOG in the communication file. You have the option of using either of these files or both of them.

The Background Processor also requires three work files (M4REPO, M4SORT, and M4REPI), which you must pre-allocate.

Running ALLOC

Run the ALLOC job using a different USER data set name prefix for each different Background Processor job (different CONTROL NAME) that you set up to handle concurrent query processing requirements at your installation.

Setting M4REPI Block Size

Set the block size for M4REPI:

- To be the same as M4REPO
- To match the M4REPO block size in M4PARAMS.

These files are set by the ALLOC sample JCL. You must set the M4REPI LRECL at that point.

CREATUTL JCL — Creating the Utility Library

The CREATUTL JCL in INFORM.JCL (shown in [Figure A-13, Appendix A, JCL Samples](#)) restores the utility library to its execution format so it can be used by VISION:Inform. The utility library is a background library containing definitions used by several VISION:Inform utilities, such as the Promote Process Utility and the Glossary Utility. This is a required step of the installation.

The LOADTAPE JCL copied this library from the installation tape to a temporary disk file.

CREATFIN JCL — Creating the FINANCE Test File

The CREATFIN JCL in INFORM.JCL (shown in [Figure A-12, Appendix A, JCL Samples](#)) loads the supplied FINANCE test file from the temporary disk file copied from the installation tape in the LOADTAPE job. You use this VSAM file to verify the installation, as well as train new users. You create this test file using the IDCAMS utility to define and move the data from tape to a VSAM cluster.

Upgrading from a Previous Release of VISION:Inform

Note: For releases prior to *Answer/DB* Release 4.7, refer to the VISION:Inform Release 4.0 Getting Started Guide.

If you are upgrading from a previous release of VISION:Inform, you do not need to run the INIT job as described in [INIT JCL —Initializing VISION:Inform Files on page 3-18](#).

To use the information from your previous release's foreground library, communication file, and background library, back up the previous release's files and restore them into system files for the new release. The VISION:Inform Getting Started Guide describes this process.

Foreground Library and Communication File

For the foreground library and communication file, you upgrade from a previous release by backing up the foreground library and communication file using the previous release's backup utilities to create the backup files. Then, you restore these libraries using the new release's restore utilities with the backup files from the previous release as input.

Note: If you wish to define your Foreground Library with VSAM SHAREOPTIONS of (3,3) to enable it for concurrent access from more than one region or CPU, use job **INIT2** instead of INIT to initialize system files. If this option is chosen, you must also use job **LBREST2** instead of LIBREST for the Library Restore Utility, and use job **DFHCSD2** instead of DFHCSDUP when defining the VISION:Inform system to CICS.

For additional information on the Library Backup Utility and Library Restore Utility, refer to the VISION:Inform Utilities manual for your environment.

Background Library

This step is mandatory if you are upgrading from a release of VISION:Inform prior to Release 3.0. If you are upgrading from VISION:Inform Release 3.0 or 3.1, you can back up and restore your previous release background library using the Library Backup and Restore Utilities.

For additional information on the Library Backup Utility and Library Restore Utility, refer to the VISION:Inform Utilities manual for your environment.

Step 4 – Defining VISION:Inform Entries to CICS

To run VISION:Inform in a CICS environment, you define the product to CICS and add statements to the CICS startup JCL. The requirements for each are described in the following sections. Read this section carefully before deciding how to schedule these functions to meet your installation standards.

Verifying CICS Requirements

Verify that your CICS has been implemented with the following capabilities, which are required for VISION:Inform:

- Full-function BMS.
- Dynamic backout support.
- Auxiliary temporary storage.

Once you verify the CICS requirements, define VISION:Inform to CICS. The DFHCSDUP job for defining VISION:Inform to CICS is shown in [Figure A-18, Appendix A, JCL Samples](#). The JCL is in member DFHCSDUP of INFORM.JCL.

Note: If you wish to define your Foreground Library with VSAM SHAREOPTIONS of (3,3) to enable it for concurrent access from more than one region or CPU, use job **INIT2** instead of INIT to initialize system files. If this option is chosen, you must also use job **LBREST2** instead of LIBREST for the Library Restore Utility, and use job **DFHCSD2** instead of DFHCSDUP when defining the VISION:Inform system to CICS.

Before running the DFHCSDUP or DFHCSD2 job, customize each group of definitions.

- [Preparing the GROUP, PROFILE, and TRANSACTION Definitions on page 3-22.](#)
- [Preparing the PROGRAM and MAPSET Definitions on page 3-23](#)
- [Preparing FILE Definitions on page 3-25.](#)

Note: If you are upgrading from an earlier release of VISION:Inform, you should not use older versions of the CICS definitions(DFHCSDUP or DFHCSD2 job) for VISION:Inform with Release 4.0. This is due to an increase in the TWASIZE for the transaction definitions for VISION:Inform 4.0. Using older CICS definitions with VISION:Inform 4.0 may result in abnormal termination of the online transactions due to the difference in the TWASIZE specification.

Preparing the GROUP, PROFILE, and TRANSACTION Definitions

Figure 3-5 shows the GROUP, PROFILE, and TRANSACTION definitions required for the Foreground Processor. These definitions are shown as delivered as part of the DFHCSDUP or DFHCSD2 job.

- INFJ is the CICS transaction used by the Foreground Processor to conduct a conversation with the remote clients VISION:Journey for Windows (Release 2.0 and later) and VISION:Journey for DOS (Release 3.0 and later), with data compression.
- INFM is the CICS transaction used by the Foreground Processor to conduct a conversation with a remote client other than VISION:Journey for Windows (Release 2.0 and later) and VISION:Journey for DOS (Release 3.0 and later), with no data compression.
- INFN is the CICS transaction used internally by INFM to continue the conversation with the client software product.
- INFP is the CICS transaction used to start the Foreground Processor for a host 3270 terminal session.

These CICS transaction identifiers are examples; you can customize the name. However, the pseudo conversational TRANSID INFN must match the IATRAN parameter you specified in the PARMS macro of the VISION:Inform PARMBLK.

The PROGRAM name you specify must match:

- The PREFIX parameter in the TRANSFER installation step.
- The PROGRAM name you specify in the DEFINE PROGRAM definitions.

The TPURGE=YES and SPURGE=YES entries in the table are optional; however, we recommend you use them in both the TRANSACTION definitions.

Note: If you have terminal controllers that do not support alternate screen sizes, remove the SCRNSZE (ALTERNATE) parameter.

```
*****
* DEFINE THE GROUP AND LIST ENTRIES. *
*****
ADD GROUP(INFORM) LIST(USERLIST)
*****
* DEFINE THE PROFILE ENTRY. *
*****
DEFINE PROFILE(INFORM) GROUP(INFORM) SCRNSZE(ALTERNATE)
      DESCRIPTION(VISION:INFORM RELEASE 4.0)
*****
* DEFINE THE 3270 PLATFORM INTERFACE TRANSACTION. *
*****
DEFINE TRANSACTION(INFP) GROUP(INFORM) PROGRAM(INFORMOL) UCTRAN(YES)
      TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)
*****
* DEFINE THE REMOTE PLATFORM INTERFACE FOR ALL REMOTE PLATFORMS *
* E X C E P T   FOR RELEASE 2.0B AND HIGHER OF VISION:JOURNEY FOR *
*****
```

Figure 3-5 GROUP, PROFILE, and TRANSACTION Definitions for the Foreground Processor


```

*****
*           WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR DOS. *
*
* NOTE:      REMOVE THE INFM AND INFN TRANSACTIONS IF THIS REMOTE *
*            PLATFORM SUPPORT IS NOT NEEDED                       *
*****
DEFINE TRANSACTION(INFM) GROUP(INFORM) PROGRAM(INFORMMI)
          TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)
DEFINE TRANSACTION(INFN) GROUP(INFORM) PROGRAM(INFORMOM)
          TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)
*****
* DEFINE THE REMOTE PLATFORM INTERFACE FOR RELEASE 2.0B AND HIGHER OF*
* VISION:JOURNEY FOR WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR *
* DOS.
*
* NOTE:      REMOVE THE INFJ TRANSACTION IF THIS REMOTE PLATFORM *
*            SUPPORT IS NOT NEEDED                               *
*****
DEFINE TRANSACTION(INFJ) GROUP(INFORM) PROGRAM(INFORMJY)
          TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)

```

Figure 3-5 GROUP, PROFILE, and TRANSACTION Definitions for the Foreground Processor

Preparing the PROGRAM and MAPSET Definitions

[Figure 3-6](#) shows the PROGRAM and MAPSET definitions required for the Foreground Processor. These entries are part of the DFHCSDUP or DFHCSD2 job.

```

*****
* DEFINE THE MAPSET ENTRIES. *
*****
DEFINE MAPSET(INFORMA) GROUP(INFORM)
DEFINE MAPSET(INFORMB) GROUP(INFORM)
DEFINE MAPSET(INFORMD) GROUP(INFORM)
DEFINE MAPSET(INFORME) GROUP(INFORM)
DEFINE MAPSET(INFORMF) GROUP(INFORM)
DEFINE MAPSET(INFORMH) GROUP(INFORM)
DEFINE MAPSET(INFORMK) GROUP(INFORM)
DEFINE MAPSET(INFORMN) GROUP(INFORM)
DEFINE MAPSET(INFORM0) GROUP(INFORM)
DEFINE MAPSET(INFORM1) GROUP(INFORM)
DEFINE MAPSET(INFORM2) GROUP(INFORM)
DEFINE MAPSET(INFORM3) GROUP(INFORM)
DEFINE MAPSET(INFORM4) GROUP(INFORM)
DEFINE MAPSET(INFORM5) GROUP(INFORM)
DEFINE MAPSET(INFORM6) GROUP(INFORM)
DEFINE MAPSET(INFORM7) GROUP(INFORM)
DEFINE MAPSET(INFORM8) GROUP(INFORM)
DEFINE MAPSET(INFORM9) GROUP(INFORM)
*****
* DEFINE THE PROGRAM ENTRIES. *
*****
DEFINE PROGRAM(INFORMAB) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMAR) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMAS) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMAV) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCA) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCC) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCD) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCE) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCG) GROUP(INFORM) LANGUAGE(ASSEMBLER)
DEFINE PROGRAM(INFORMCH) GROUP(INFORM) LANGUAGE(ASSEMBLER)

```

Figure 3-6 PROGRAM and MAPSET Definitions for the Foreground Processor (Page 1 of 2)

[illegible]

Figure 3-6 PROGRAM and MAPSET Definitions for the Foreground Processor
(Page 2 of 2)

The PROGRAM names must match the PREFIX parameter in the installation TRANSFER step and the PROGRAM names in the TRANSACTION definitions.

Preparing FILE Definitions

The Foreground Processor requires the FILE entries, INFORMLF and INFORMCF. These definitions are part of the DFHCSDUP or DFHCSD2 job.

- INFORMLF defines the foreground library.
- INFORMCF defines the communication file.

Naming Conventions

- The first six characters of the data set value must match the prefix you chose for the TRANSFER job (Refer to [Transferring Load Modules to the CICS Program Library \(Optional\) on page 3-17](#)).
- Do not change the last two characters (LF and CF).

Considerations

- If you did not specify journaling for restart in the CICS SYSGEN macros, remember to remove RECOVERY (BACKOUTONLY) from the INFORMLF entry.
- Do not specify RECOVERY (BACKOUTONLY) for the communication file.
- LSRPOOL specifications are critical to data integrity and product performance. For more information, refer to [Allocating and Initializing VISION:Inform System Files \(Required\) on page 3-18](#).

[Figure 3-7](#) shows the FILE definitions required for the Foreground Processor.

```
*****  
* DEFINE THE FILE ENTRIES. *  
*****  
  
DEFINE FILE (INFORMLF) GROUP (INFORM)  
    DSNAME (INFORM.FGLIB)  
    LSRPOOLID (1) STRINGS (1) DATABUFFERS (2)  
    UPDATE (YES) RECORDFORMAT (F) RECOVERY (BACKOUTONLY)  
DEFINE FILE (INFORMCF) GROUP (INFORM)  
    DSNAME (INFORM.INFCOM)  
    LSRPOOLID (NONE) STRINGS (1) DATABUFFERS (2)  
    UPDATE (YES) RECORDFORMAT (F) RECOVERY (NONE)
```

Figure 3-7 FILE Definitions

Note: If you use the DFHCSD2 job instead of DFHCSDUP, the DEFINE FILE entry for the foreground library will have the specification of LSRPOOLID(NONE) instead of LSRPOOLID(1).

Installing CICS Definitions

The GROUP, PROFILE, TRANSACTION, PROGRAM, MAPSET, and FILE definitions described in this chapter are all contained in a single job, DFHCSDUP or DFHCSD2 in INFORM.JCL. Make changes as described in this section and run the job.

Adding Statements to the CICS Startup JCL

Add JCL statements to the CICS startup JCL job to define the Foreground Processor data sets.

1. Match the ddnames to the FILE values specified in the FILE definitions in the previous step. The dataset disposition (DISP=) must be SHR.
2. If you perform TRANSFER, include the CICS program library (used as the 'TO' library in TRANSFER) in the DFHRPL program library concatenation.

If you do not perform TRANSFER, add the name of the VISION:Inform load library to the DFHRPL program library concatenation.

Figure 3-8 shows a sample of the JCL statements to add to the CICS startup job.

```

//*****
//*
//*      JCL EXCERPTS TO ADD TO CICS STARTUP DECK
//*
//*      CHANGE THE DATA SET NAMES AND DD NAMES IF NECESSARY.
//*
//*****
//*
//*      ADD THE FOLLOWING DD STATEMENTS TO THE STEP EXECUTING DFHSIP:
//*
//INFORMLF DD DSN=INFORM.FGLIB,DISP=SHR
//INFORMCF DD DSN=INFORM.INFCOM,DISP=SHR
//*
//*      IF THE STARTUP JOB HAS A STEP THAT EXECUTES IDCAMS TO VERIFY
//*      THE VSAM DATA SETS, ADD THE FOLLOWING TO THE SYSIN DD INPUT
//*      OF THE IDCAMS STEP (THE FILE NAMES SPECIFIED HERE MUST MATCH
//*      THE DDNAMES SPECIFIED ON THE SUBSEQUENT DD STATEMENTS):
//*
//*      VERIFY FILE(INFORMLF)
//*      VERIFY FILE(INFORMCF)
//*
//*      AND ADD THE FOLLOWING DD STATEMENTS TO THE IDCAMS STEP:
//*
//INFORMLF DD DSN=INFORM.FGLIB,DISP=SHR
//INFORMCF DD DSN=INFORM.INFCOM,DISP=SHR

```

Figure 3-8 CICS Startup JCL to be Added

Note: If you are running CICS Transaction Server 1.3 or higher, you can leave the DD statements for the foreground library and communication file out of the CICS start-up deck, and CICS will dynamically allocate these two VSAM files.

Step 5 – Setting Up the Definition Processor

Allocating ISPF Data Sets

The Definition Processor runs as an application under your normal ISPF session. This enables the product to take advantage of the many services available under ISPF. As a result, you must make the installed Definition Processor libraries available to the ISPF environment before you use the Definition Processor.

One way to make these libraries available to ISPF is to add these libraries to your existing ISPF library allocations. You can find these allocations in your TSO logon procedure or your ISPF startup CLIST. Check with the appropriate systems person at your installation to confirm the method used to allocate ISPF data sets.

After you determine how your existing ISPF libraries are allocated, you can allocate the necessary Definition Processor libraries by simply concatenating them to your existing ISPF library allocations. We recommend that you allocate your Definition Processor libraries at the front of each concatenation sequence.

Apply the following rules whenever you concatenate data sets:

- If libraries of unequal record length are to be concatenated, then the record formats must all be variable.
- If libraries of unequal block size are to be concatenated, then the library with the largest block size must be first in the concatenation.

The following list shows the required ISPF ddnames and the Definition Processor data sets which should be associated with them. All Definition Processor data set names shown are the supplied installation names shown earlier in this document. Change these names to reflect the names actually used during the installation process.

[Appendix C, Definition Processor Startup CLIST](#) contains a sample ISPF startup CLIST that shows how you can make the proper Definition Processor library allocations.

ISPF ddname: SYSPROC (VISION:Inform data set name: INFORM.CLIST)

Note that the Definition Processor CLIST library comes with the installation tape as a fixed block data set with a record length of 80 and a block size of 3120. This format may not adhere to your installation's standards for CLIST libraries. If your installation prefers a variable blocked format, you can copy the contents of this library to a different CLIST library of the proper format for your installation.

Note: Make the IBM Language Environment® run-time library available to the Definition Processor.

ISPF ddname: ISPLLIB (VISION:Inform data set name: INFORM.LOADLIB)

ISPLLIB functions as a task library. It is searched before the STEPLIB allocations, system link libraries, or the system link pack area.

The ISPLLIB library must also specify the IBM Language Environment (formerly LE/370) run-time library if it is not available from the system link library or link pack area. Concatenate this run-time library with the other ISPLLIB libraries.

ISPF ddname: ISPLLIB (VISION:Inform data set name: INFORM.PANELS)

If you have chosen to preprocess your Definition Processor panel library, you should concatenate your preprocessed panel library, rather than your panel source library, to this ddname. Preprocessing your panel library is an optional installation step discussed in [Applying Optional Installation Steps on page 3-32](#).

ISPF ddname: ISPLMLIB (VISION:Inform data set name: INFORM.MSGS)

ISPF uses this ddname to locate the text of all informational and diagnostic messages issued by the Definition Processor.

ISPF ddname: ISPSLIB (VISION:Inform data set name: INFORM.SKELS)

The ISPSLIB ddname specifies the location of ISPF skeletons used by the Definition Processor.

If the IBM Language Environment (formerly LE/370) run-time library is not available in the system link library or the link pack area, you must modify one of the members in the INFORM.SKELS data set before using the Definition Processor.

- Change the PDS member M9JKPROM to specify the IBM Language Environment run-time library.
- Initially, find the IBM.LANGUAGE.ENVR.RUNLIB string; it will appear as a comment as follows:

```
/* DD DSN=IBM.LANGUAGE.ENVR.RUNLIB,DISP=SHR
```

Uncomment the statement (it is then concatenated to the JOBLIB DD statement). Change the data set name to your library containing the IBM Language Environment run-time library.

ISPF ddname: DEFTLIB (VISION:Inform data set name: INFORM.DEFTLIB)

Note: This is not a delivered data set.

This ISPF Dialog data set is used to save information between panels and sessions with the Definition Processor Import dialog. Pre-allocate the data set with the following characteristics:

Data set name	INFORM.DEFTLIB
DDNAME	DEFTLIB
DSORG	PO
RECFM	FB

LRECL	80
BLKSIZE	multiple of 80
SPACE	(TRK, (5,2,2))

After allocating the ISPF Dialog data set, add this data set to the ISPF startup CLIST allocations, as follows:

```
ALLOC F (DEFTLIB) DA('inform.deftlib') SHR
```

You must use the ddname DEFTLIB. You may need to add this ddname to any FREE commands within your startup CLIST.

Additional Information Concerning Load Libraries

Rather than being allocated to ISPLLIB, you can make the VISION:Inform load library (INFORM.LOADLIB) available to ISPF through the use of a STEPLIB allocation or system link library allocations.

Using the LIBDEF Service

Some installations take advantage of the ISPF LIBDEF service to dynamically modify the ISPF library concatenations based on the ISPF application you will be running.

You can use the LIBDEF service to allocate your Definition Processor CLIST, panel, message, and skeleton libraries.

Do not use this feature to allocate load libraries. The Definition Processor relies on system services to find load modules. System services do not recognize allocations done through the ISPF LIBDEF service. The Definition Processor will not function properly if LIBDEF is used for ISPLLIB allocations.

For more information on the LIBDEF service, see the IBM ISPF Services Guide.

Using the Definition Processor List Data Sets

The Definition Processor uses two different types of list data sets, the utility list data set and the by-product list data set.

Utility list data set

The utility list data set (which corresponds to the ISPF list data set in purpose and function) holds output created by the Definition Processor utilities document option.

You can pre-allocate this list data set prior to starting the Definition Processor session, but pre-allocation is not required. If the Definition Processor finds that this list data set has not been pre-allocated, it will dynamically allocate it with a disposition of "new" when the data set is needed.

- If you pre-allocate this data set, it must have the following characteristics:

DDNAME: M9LIST

DSORG: PS or SYSOUT

RECFM: FBA

LRECL: 133

BLKSIZE: any multiple of 133

- If you pre-allocate this data set, no termination processing will be attempted by the Definition Processor at the end of the Definition Processor session.

If the Definition Processor allocates this data set, a Process List Data Set panel displays during the Definition Processor termination processing. This panel functions in the same manner as the ISPF Process List Data Set panel.

- Specifying Default Processing Parameters

You can set up default processing parameters for this data set using the Definition Processor parameters list data set option.

- M9LIST Naming Convention

If the M9LIST data set is dynamically allocated by the Definition Processor, the naming convention used (where n = number) is:

```
& SYSPREF.( &SYSUID.)M9TEMPn.LIST
```

The &SYSUID qualifier is only used if it differs from the &SYSPREF system prefix.

The By-product List Data Sets

The Definition Processor also uses a second type of list data set. These are referred to as the by-product list data sets.

Note: Do not pre-allocate these data sets.

A Definition Processor session can use up to four by-product list data sets.

- The Definition Processor automatically allocates these list data sets when needed to ddnames of M9LST1, M9LST2, M9LST3, and M9LST4. M9LST3, and M9LST4 are only required when a 3290 terminal is in use.
- The Definition Processor uses these data sets to temporarily store output that you do not specifically request, but is generated as a result of some action you take. For instance, when you validate a definition, the results of the validation are written to one of the M9LSTn list data sets. If problems occur, browse this data set.

The Definition Processor allocates and deletes these data sets as necessary. These data sets are allocated as permanent data sets.

Controlling the Dynamic Allocation Parameters

You can control some of the dynamic allocation parameters by modifying panel M9DATPMI in your Definition Processor panel library.

Use this panel to specify unit and space allocations for the by-product data sets. Just prior to dynamically allocating any of these data sets, the Definition Processor retrieves and uses the allocation information from the appropriate panel variables.

Remember, the units specified on these panels must be known to TSO and must be eligible to contain permanent data sets.

M9LIST Naming Convention

The naming convention used by the Definition Processor for the M9LSTn data sets is &SYSPREF.(& SYSUID.)M9TEMPn.LSTn (where n=number). The &SYSUID qualifier is used only if it differs from the &SYSPREF system prefix.

Specifying the Definition Processor Start Method

You can start the Definition Processor in one of the following ways:

- Add a Definition Processor selection option to an ISPF menu panel. With this method, users start the Definition Processor by selecting the Definition Processor menu option from the corresponding ISPF menu panel.
- Create a command procedure that allocates the appropriate ISPF data sets and then uses the ISPSTART command to directly invoke the Definition Processor. With this method, users start the Definition Processor directly, without having to go through an ISPF menu panel, by simply executing the command procedure. Users normally execute the command procedure in a TSO environment.
- Local customization process.

The first two methods are described in more detail in the following sections. Before starting the Definition Processor, establish a proper ISPF environment and allocate the appropriate Definition Processor data sets to the appropriate ISPF ddnames.

Adding A Menu Option

[Appendix D, Starting the Definition Processor](#) contains a sample menu panel that shows how to add the Definition Processor option to an ISPF primary option menu panel with the following entries:

1. Add the following option to the user-displayed section of the menu panel:

```
%DP+DEFPROC - Invoke the Definition Processor
```

2. Add the following command to the)INIT section of the menu panel:

```
&M9PRODUCT='Workbench'
```

3. Add the following command to the)PROC section of the menu panel:

```
DP, 'PGM(M9BOOT) PARM(PMM4) NOCHECK'
```

4. Add the following variable assignment to the menu panel)PROC section:

```
&GVNXTSEL=.TRAIL
```

This variable assignment sets a Definition Processor internal variable, GVNXTSEL, to contain any trailing command options that you specify.

These trailing command options can then be retrieved, validated, and processed by Definition Processor. If you do not add this variable assignment to the menu panel, trailing command options will not be processed by Definition Processor.

Using the ISPSTART Command

You can also start the Definition Processor directly from TSO using the ISPSTART command. You can write a CLIST to allocate the appropriate ISPF data sets and execute the ISPSTART command. The format for the ISPSTART command is:

```
ISPSTART PGM(M9BOOT) PARM(PMM4)
```

The variable assignment for GVNXTSEL is not used when you start the Definition Processor directly from the ISPSTART command (trailing command options are not an issue).

A sample CLIST is shown in [Appendix C, Definition Processor Startup CLIST](#).

Applying Optional Installation Steps

Preprocessing the Panel Library

ISPF includes a panel preprocessing utility called ISPPREP. Use this utility to convert the Definition Processor panels into an encoded format which significantly improves panel display performance. A preprocessed panel library takes up to 20 percent less space than an unprocessed panel library.

Once you preprocess a panel and it is in an encoded display format, it cannot be modified. To change a preprocessed panel, modify the original panel source member and rerun ISPPREP for that panel.

If you want to preprocess your Definition Processor panels, allocate a second panel library to hold the preprocessed panels. Leave your original panel source library unchanged.

Not all panels can be preprocessed. There are restrictions that prevent ISPPREP from successfully preprocessing certain panels. As a result, ISPPREP automatically bypasses these panels. Copy these remaining panels to the preprocessed panel library after the preprocess job, to complete the processing of all panels.

To preprocess your panel library, follow these steps:

1. Allocate a new panel library.

Allocate a new preprocessed panel library. Use the same characteristics as your installed Definition Processor panel library, except:

- Reduce the space allocation to 80 primary tracks.
- Reduce the directory blocks to 80 unless the SAVE STATISTICS option is set to YES, in which case, you must set the directory blocks to 250.

2. Run the preprocess utility.

To run the preprocess utility, go into ISPF and select the TSO command option from the primary menu.

- Enter the command ISPPREP on the TSO command line to display a preprocess utility panel.
- Specify the panel input data set (unprocessed) data set for all members.
- Specify the panel output data set (processed) where the processed panels will be stored.
- If directory blocks were set to allow the 'Save statistics' option, then select the 'Save statistics for members' option.
- Fill in the appropriate information to convert all panels and press Enter.

Informational messages appear during processing to tell you how many panels have been processed.

The ISPPREP utility recognizes the panels that cannot be preprocessed (encoded) and automatically skips them.

- When this preprocess completes, view or print your ISPF log. It will contain informational messages from the conversion process. The only error messages which should appear pertain to the panels that could not be preprocessed.

3. Copy the unprocessed panels.

After the conversion process is complete, use the ISPF copy utility (option 3.3) to copy the unprocessed panels listed below from your Definition Processor panel source library to your new preprocessed panel library.

The expected unprocessed panels are:

\$\$COPYRT	M9HCAPBR	M9HCAPDA	M9HCAPED
M9HCAPPF	M9HCAPSF	M9HCAPSS	M9SVAPBR

M9SVAPPM M9TBAPT M9TBAPT

Once the copy completes, the preprocessed panel library contains all of the Definition Processor panels.

4. Concatenate the new library to ISPPLIB.

Concatenate this library to the ISPF ddname ISPPLIB first, so that ISPF uses the encoded Definition Processor panels rather than the source versions.

You can remove the Definition Processor panel source library from the ISPPLIB concatenations, but do not delete this library.

Modifying Panels After Preprocessing

To change a Definition Processor panel, edit it in the panel source format library. After you modify the panel, replace it in the preprocessed panel library by running the panel through the ISPPREP utility.

Using Library Management Facility (LMF) Support

If your installation uses the Library Management Facility (LMF), you can apply a Definition Processor APAR (formerly RSM) that causes the Definition Processor to place an LMF lock on any members being edited from an LMF controlled definition library.

For more information, contact Computer Associates Technical Support.

Step 6 – Setting up File Definition Conversion Utilities

The VISION:Inform Quick Start utilities provide an automated process to assist in converting external file definitions to the VISION:Inform format. After the automated part of the conversion process, you might need to further tailor the file definition.

Some additional setup activity will be required if you plan to use one or more of the following three of the five VISION:Inform Quick Start utilities:

- DB2 Quick Start Utility.
- COBOL Quick Start Utility.
- VISION:Results Quick Start Utility.

If you do not run any of the Quick Start file definition converters during installation, you can run them later using the Definition Processor Main Menu Import option.

Setting up the DB2 Quick Start Utility (Optional)

Before you can use the DB2 Quick Start Utility to generate VISION:Inform file definitions from existing DB2 table definitions, first bind the supplied DB2 Quick Start Utility database request module (DBRM) into a DB2 plan.

When binding the DB2 Quick Start plan, specify the following information:

- DBRM Module: DB2QDBRM.
- DBRM Library: Your installed VISION:Inform DBRM library (INFORM.R40.DBRM).
- Table Qualifier: The DB2 SYSCOLUMNS table qualifier.

All other bind parameters can be set based on your installation's processing standards.

[Figure 3-9](#) and [Figure 3-10](#) show sample BIND panels (from the online DB2 interactive CLIST) for creating the DB2 Quick Start plan.

After you bind the DB2 Quick Start plan, the JCL to execute the DB2 Quick Start Utility is provided in the INFORM.JCL member DB2QS. It is shown in [Figure A-16, Appendix A, JCL Samples](#).

Refer to the VISION:Inform Utilities Guide for more information on the DB2 Quick Start Utility.

```

                                BIND PLAN
COMMAND ==>

Enter DBRM data set name(s):
 1 MEMBER ..... ==> DB2QDBRM
 2 PASSWORD ..... ==>
 3 LIBRARY ..... ==> 'INFORM.R40.DBRM'
 4 ADDITIONAL DBRMS? ..... ==> NO      (YES to include more DBRMs)

Enter options as desired:
 5 PLAN NAME ..... ==> DB2QS      (Required to create a plan)
 6 CHANGE CURRENT DEFAULTS? .. ==> YES      (NO or YES)
 7 ENABLE/DISABLE CONNECTIONS? ==> NO      (NO or YES)
 8 INCLUDE PACKAGE LIST?..... ==> NO      (NO or YES)
 9 OWNER OF PLAN (AUTHID)..... ==>          (Leave blank for your primaryID)
10 QUALIFIER ..... ==> SYSIBM      (For tables, views, and aliases)
11 CACHESIZE ..... ==>          (Blank, or value 0-4096)
12 ACTION ON PLAN ..... ==> REPLACE (REPLACE or ADD)
13 RETAIN EXECUTION AUTHORITY. ==> YES      (YES to retain user list)
14 CURRENT SERVER ..... ==>          (Location name)
15 INCLUDE PATH?..... ==> NO      (NO or YES)

PRESS: ENTER to process  END to save and exit  HELP for more information

```

Figure 3-9 Create the DB2 Quick Start Plan

```

DEFAULTS FOR BIND PLAN
COMMAND ===>

Change default options as necessary:

 1 ISOLATION LEVEL ..... ==> CS      (RR, RS, CS, or UR)
 2 VALIDATION TIME ..... ==> RUN     (RUN or BIND)
 3 RESOURCE RELEASE TIME ... ==> COMMIT (COMMIT or DEALLOCATE)
 4 EXPLAIN PATH SELECTION .. ==> NO    (NO or YES)
 5 DATA CURRENCY ..... ==> NO       (NO or YES)
 6 PARALLEL DEGREE ..... ==> 1       (1 OR ANY)
 7 RESOURCE ACQUISITION TIME ==> USE   (USE or ALLOCATE)
 8 REOPTIMIZE FOR INPUT VARS ==> NO    (NO or YES)
 9 DEFER PREPARE ..... ==> NO        (NO or YES)
10 KEEP DYN SQL PAST COMMIT..==> NO    (NO or YES)
11 DBPROTOCOL.....==>              (Blank, DRDA or PRIVATE)
12 OPTIMIZATION HINT.....==>        (Blank or 'hint-id')
13 DYNAMIC RULES.....==> RUN        (RUN or BIND)
14 SQLRULES.....==> DB2             (DB2 or STD)
15 DISCONNECT.....==> EXPLICIT     (EXPLICIT, AUTOMATIC, or CONDITIONAL)

PRESS: ENTER to process      END to save and exit      HELP for more information

```

Figure 3-10 Setting Bind Parameters

Setting up the COBOL Quick Start Routines (Optional)

To use the COBOL Quick Start Utility to convert definitions that are stored in a CA-Librarian or CA-Panvalet library, link edit the appropriate interface routine with the COBOL Quick Start Utility. This is accomplished by running one of the supplied JCL procedures in the INFORM.JCL library.

Link Edit CA-Librarian Support

The PDS member LINKLIB in the INFORM.JCL library contains the job necessary to link edit the support for accessing COBOL copybooks stored in a CA-Librarian master file with the COBOL Quick Start Utility. [Figure 3-11](#) shows the LINKLIB JCL procedure. Modify the procedure variables as appropriate and run the job to activate this interface. You can ignore the return code of 4 and the warning message IEW2454W.

```

// * MEMBER LINKLIB                                00010000
//*****                                           00020000
// * LINK LIBRARIAN INTERFACE MODULES WITH COBOL QUICK START UTILITY. * 00030000
//*****                                           00040000
//LINKL  PROC LOADLIB=,                            00050000
//      LIBLOAD=                                   00060001
//LINKL  EXEC PGM=IEWL,REGION=512K,PARM='LIST,MAP,LET,XREF,NCAL' 00070001
//SYSLIB DD DISP=SHR,DSN=&LIBLOAD                  00080004
//SYSPRINT DD SYSOUT=*                             00090001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))           00100001
//LIBSYS DD DISP=SHR,DSN=&LIBLOAD                   00110001
//LLIB DD DISP=SHR,DSN=&LOADLIB                     00120001
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                  00130001
//      PEND                                       00140001
//*****                                           00150000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.          * 00160001
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY:                          * 00170001

```

Figure 3-11 LINKLIB JCL—Link Edit the CA-Librarian Interface Modules with the COBOL Quick Start Utility (Page 1 of 2)

```

/* * 00180000
/* * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00190001
/* * LIBLOAD - THE LIBRARIAN SYSTEM LOAD LIBRARY. * 00200000
/* ***** 00210000
//LINK EXEC LINKL, 00220000
// LOADLIB='INFORM.LOADLIB', 00230001
// LIBLOAD='LIBRARIAN.SYSTEM.LOADLIB' 00240000
//LINKL.SYSLIN DD * 00250000
INCLUDE LIBSYS (FAIRCLS) 00260002
INCLUDE LIBSYS (FAIROPN) 00270002
INCLUDE LIBSYS (FAIRREC) 00280002
INCLUDE LIBSYS (FAIRMOD) 00290002
INCLUDE LIBSYS (FAIRERR) 00300002
INCLUDE LIBSYS (FAIRLOC) 00310002
INCLUDE LIBSYS (FAIRNTE) 00320002
INCLUDE LIBSYS (FAIRPNT) 00330002
INCLUDE LIBSYS (FAIRSEC) 00350002
INCLUDE LLIB (COMLIBL) 00360002
ENTRY COMLIBL 00370002
NAME COMLIBL (R) 00380002

```

Figure 3-11 LINKLIB JCL—Link Edit the CA-Librarian Interface Modules with the COBOL Quick Start Utility (Page 2 of 2)

Link Edit CA-Panvalet Support

The PDS member LINKPAN in the INFORM.JCL library contains the job necessary to link edit support for accessing COBOL copybooks stored in a CA-Panvalet library with the COBOL Quick Start Utility. [Figure 3-12](#) shows the LINKPAN JCL procedure. Modify the procedure variables as appropriate and run the job to activate this interface.

```

/* * MEMBER LINKPAN 00010000
/* ***** 00020000
/* * LINK PANVALET INTERFACE MODULES WITH COBOL QUICK START UTILITY. * 00030000
/* ***** 00040000
//LINK PROC LOADLIB=, 00050000
// PANLOAD= 00060001
//LINKP EXEC PGM=IEWL,REGION=512K,PARM='LIST,MAP,LET,XREF,NCAL' 00070001
//SYSLIB DD DISP=SHR,DSN=&PANLOAD 00080004
//SYSPRINT DD SYSOUT=* 00090001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1)) 00100001
//LIBSYS DD DISP=SHR,DSN=&PANLOAD 00110001
//LLIB DD DISP=SHR,DSN=&LOADLIB 00120001
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB 00130001
// PEND 00140001
/* ***** 00150000
/* * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00160001
/* * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00170001
/* * 00180000
/* * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00190001
/* * PANLOAD - THE PANVALET SYSTEM LOAD LIBRARY. * 00200000
/* ***** 00210000
//LINK EXEC LINKP, 00220000
// LOADLIB='INFORM.LOADLIB', 00230001
// PANLOAD='PANVALET.SYSTEM.LOADLIB' 00240000
//LINKP.SYSLIN DD * 00250000
INCLUDE LIBSYS (PAM) 00260000
INCLUDE LLIB (COMLIBP) 00270002
ENTRY COMLIBP 00280002
NAME COMLIBP (R) 00290003

```

Figure 3-12 LINKPAN JCL — Link edit the CA-Panvalet Interface Modules with the COBOL Quick Start Utility

Setting up the VISION:Results Quick Start Utility (Optional)

To use the VISION:Results Quick Start Utility to convert definitions that are stored in a CA-Librarian or CA-Panvalet library, link edit the appropriate interface routine with the VISION:Results Quick Start Utility. Do this link edit by running the supplied JCL procedure, LINKLIBR in the INFORM.JCL library.

Link Edit CA-Librarian Support

The PDS member LINKLIBR in the INFORM.JCL library contains the job to link edits the support for accessing VISION:Results file definitions stored in a CA-Librarian master file with the VISION:Results Quick Start Utility. [Figure 3-13](#) shows the LINKLIBR JCL procedure. Modify the procedure variables as appropriate and run the job to activate this interface. You can ignore the return code of 4 and the warning message IEW2454W.

```

/* MEMBER LINKLIBR                                00010000
/*****                                          00020000
/* LINK LIBRARIAN INTERFACE MODULES WITH RESULTS QUICK START.      * 00030000
/*****                                          00040000
//LBLNK  PROC LOADLIB=,                          00050000
//      LIBLOAD=                                00060000
//LINK   EXEC PGM=IEWL,REGION=1M, PARM='LIST,MAP,LET,NCAL'        00070000
//SYSLIB DD DISP=SHR,DSN=&LIBLOAD                      00080002
//SYSPRINT DD SYSOUT=*                                00090000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))              00100000
//LIBSYS DD DISP=SHR,DSN=&LIBLOAD                      00110000
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                    00120000
//      PEND                                         00130000
/*****                                          00140000
/* BEFORE SUBMITTING THIS JCL, YOU MUST SPECIFY THE FOLLOWING    * 00150000
/* INFORMATION:                                           * 00160000
/*                                           * 00170000
/*      LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.          * 00180000
/*      LIBLOAD - THE CA-LIBRARIAN SYSTEM LOAD LIBRARY.          * 00190000
/*****                                          00200000
//LIBLINK EXEC LBLNK,                                00210000
//      LOADLIB='INFORM.LOADLIB',                    00220000
//      LIBLOAD='LIBRARN.SYSTEM.LOADLIB'              00230000
//LINK.SYSLIN DD *                                     00240000
INCLUDE LIBSYS (FAIRCLS)                             00250000
INCLUDE LIBSYS (FAIROPN)                             00260000
INCLUDE LIBSYS (FAIRREC)                             00270000
INCLUDE LIBSYS (FAIRMOD)                             00280000
INCLUDE LIBSYS (FAIRERR)                             00290000
INCLUDE LIBSYS (FAIRLOC)                             00300000
INCLUDE LIBSYS (FAIRNTE)                             00310000
INCLUDE LIBSYS (FAIRPNT)                             00320000
INCLUDE LIBSYS (FAIRSEC)                             00340000
INCLUDE SYSLMOD (DYL280LX)                           00350000
      ENTRY DYL280L                                00360000
      NAME DYL280L (R)                             00370000

```

Figure 3-13 LINKLIBR JCL — Link Edit the CA-Librarian Interface with the VISION:Results Quick Start Utility

Link Edit CA-Panvalet Support

The PDS member LINKPANR in the INFORM.JCL library contains the job necessary to link edit the support for accessing VISION:Results file definitions stored in a CA-Panvalet library with the VISION:Results Quick Start Utility.

Figure 3-14 shows the JCL procedure. Modify the procedure variables as appropriate and run the job to activate this interface.

```

// * MEMBER LINKPANR                                00010000
// *****                                          00020000
// * LINK PANVALET INTERFACE MODULES WITH RESULTS QUICK START. * 00030000
// *****                                          00040000
// PNLNK  PROC LOADLIB=,                             00050000
//          PANLOAD=                                00060000
// LINK   EXEC PGM=IEWL,REGION=1M,PARM='LIST,MAP,LET,NCAL' 00070000
// SYSLIB DD DUMMY                                  00080000
// SYSPRINT DD SYSOUT=*                             00090000
// SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))           00100000
// LIBSYS DD DISP=SHR,DSN=&PANLOAD                  00110000
// SYSLMOD DD DISP=SHR,DSN=&LOADLIB                  00120000
//          PEND                                     00130000
// *****                                          00140000
// * BEFORE SUBMITTING THIS JCL, YOU MUST SPECIFY THE FOLLOWING * 00150000
// * INFORMATION:                                     * 00160000
// *                                                 * 00170000
// *   LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00180000
// *   PANLOAD - THE CA-PANVALET SYSTEM LOAD LIBRARY. * 00190000
// *****                                          00200000
// PANLINK EXEC PNLNK,                               00210000
//          LOADLIB='INFORM.LOADLIB',                00220000
//          PANLOAD='PANVALET.SYSTEM.LOADLIB'         00230000
// LINK.SYSLIN DD *                                  00240000
// INCLUDE LIBSYS (PAM)                             00250000
// INCLUDE SYSLMOD (DYL280PX)                        00260000
// ENTRY DYL280P                                     00270000

```

Figure 3-14 LINKPANR JCL — Link Edit the CA-Panvalet Interface with the VISION:Results Quick Start Utility

Installation Verification Process (IVP)

The Installation Verification Process (IVP) verifies that you successfully installed VISION:Inform.

- The IVP verifies that the various main functions are properly installed.
- The IVP is not a full system test since it does not exercise the entire system.
- The IVP requires you to install the FINANCE file.

When the IVP is complete, you will know:

- The Foreground Processor is working.
- The Batch Simulator is working.
- The Background Processor is working.
- The Promote process is working.
- The Definition Processor is working.
- The background and foreground communications work.

Entering the IVP Text

The text you enter for the IVP is provided for you. The IVP phases are grouped logically by function.

- The online services are shown as panels (screen prints).
- The batch portions show all modifications you need to make.

Copies of JCL

As this IVP is not intended to be a part of the installation, we recommend that you copy any JCL members that need to be updated to new members prior to modification.

Remote Platforms

Remote platforms do not have the platform steps listed here. These must be performed by someone who is proficient in their use. These steps are noted in the outline and in the various phases.

IVP Phases

The following outlines the phases of the IVP:

1. [Phase 1 — Promoting the Sample Definitions on page 4-7.](#)
 - Log on to ISPF.
 - Start the Definition Processor.
 - Promote the sample definitions.
 - Return to the Definition Processor menu.
2. [Phase 2 — Creating a Logical Data View on page 4-18.](#)
 - Create FINIVP logical data view.
 - Add required alias.
 - Validate FINIVP logical data view.
 - Save FINIVP logical data view to the definition library.
 - Promote the logical data view.
 - Exit the Definition Processor.
3. [Phase 3 — Performing System Administration Functions on page 4-40.](#)
 - Log on to the VISION:Inform SYSTEM user ID.
 - Select Option 2 (Administrative Facilities) from the Computer Associates Main Menu (also known as the Main Menu).
 - Edit the SYSTEM profile and add FINANCE and FINIVP INCLUDE statements.
 - Save the profile.
 - Log off VISION:Inform so that the profile changes can take effect.
4. [Phase 4 — Running the Background Processor on page 4-50.](#)
 - Prepare Background Processor control statements.
 - Add DB JCL for the FINANCE file.
 - Add DB JCL for FIN1 (FINANCE) file.
 - Add JCL to print the log file to the end of the Background Processor JCL.
 - Pre-allocate the reports data set or change it to a SYSOUT data set.
 - Submit the Background Processor JCL.
5. [Phase 5 — Verifying Promoted Definitions on page 4-54.](#)
 - Log on to VISION:Inform.
 - Select Option 6 (Standard Query Processing) from the Main Menu.
 - Invoke Full Screen Editor to create a new query.
 - Retrieve glossary information for FINIVP.

-
6. [Phase 6 — Creating a Query for 3270 Platforms on page 4-65.](#)
 - Enter the query.
 - Validate the query.
 - Save the query.
 - Submit the query.
 - Return to the Main Menu.
 - Log off.
 7. [Phase 7 — Creating a Query for Remote Platforms on page 4-75.](#)
 - Update or add a script for the user to connect from the remote platform to VISION:Inform.
 - Retrieve glossary for FINIVP.
 - Define a task or query.
 - Order task FINIVP.
 - Deliver data when task or query completes.
 - Disconnect the remote platform.
 - Return to CICS.
 1. Log on using SYSTEM profile.
 2. Select Option 1 (Operation Facilities) from the Main Menu.
 3. Terminate the Background Processor.
 4. Return to the Main Menu.
 - Log off.

This phase completes the IVP for remote platforms.

-
8. [Phase 8 — Viewing and Cleaning Up for 3270 Platforms on page 4-82.](#)
- Log on using SYSTEM user ID.
 - Check status of Background Processor.
 1. Select Option 1 (Operation Facilities) from the Main Menu.
 2. Enter PSTATUS command.
 - Report verification steps.
 1. Enter QSTATUS command to find query status.
 2. Enter VIEW command to view the report.
 - Purge the report and terminate the Background Processor.
 1. Enter PURGE command to purge the report.
 2. Enter TERM command to terminate the Background Processor.
 3. Return to the Main Menu.
 - Delete the saved query.
 1. Select Option 6 (Standard Query Processing) from the Main Menu.
 2. Place a D next to query name.
 3. System requests verification.
 4. Verify the delete.
 5. Return to the Main Menu.
 - Log off.

This step completes the IVP for the 3270 platforms.

The sections that follow describe each phase in detail. To verify the installation, perform the functions as described with each panel.

Menu and Panel Conventions

- The text uses the term *command line* to refer to the field after:
COMMAND ===> (top of panel)
Command ===> (near bottom of panel)
OPTION ===> (top of panel)
- In the menus and panels, user input is in **bold, underlined text**. (When read online using the Acrobat Reader, user input is blue.) Previously entered user input is in **bold text**.
- The phrase "Use the End command (PF3) ..." means to "Enter 'end' and press Enter or press the PF3 key ..."
- The term "data view" is seen in the product as "data view," "dataview", "DataView", and "Dataview."
- The term "logical data view" is in the product as "logical data view", "LOGICAL DATA VIEW," and "LDV."
- By default, ISPF messages appear in the message line below the Command line. If the default has been changed at your installation, these messages may appear in a message box at the bottom of the panel.

Long and Short Panel Names

Panels with long names may be referred to by shorter names. The alphabetized list shows panel names and their associated short names.

Long Name	Short Name
Computer Associates - DataView pop-up panel	DataView pop-up panel
Computer Associates - Detail pop-up panel	Fields Detail pop-up panel
Computer Associates - Fields pop-up panel	Fields pop-up panel
Computer Associates - Editor panel	Full Screen Editor
Computer Associates - Logon	Logon
Computer Associates - Main Menu	Main Menu
Computer Associates - Source Processing panel	Source Processing
Computer Associates - Submit panel	Submit panel
DEFINITION LIBRARY SPECIFICATION panel	Definition panel
GLOBAL VALIDATION PROCESSING panel	Validation panel
LOGICAL DATA VIEW DEFINITION menu	LDV menu
LOGICAL DATA VIEW DEFINITION panel	LDV Definition panel
LDV SEGMENT AND FIELD ALIASES panel	LDV Segment and Aliases panel
SELECT Definition Library Items panel	Select Items panel
Untitled (Promote JCL Message)	Promote JCL Message panel
VISION:Inform DEFINITION PROCESSOR FACILITY menu	Definition Processor menu
VISION:Workbench™ for ISPF Selection Menu	Selection Menu
MAINTAINING the Background and Foreground Libraries panel	Promote panel
PROMOTE JCL Build - JOB Information	JOB Information panel

PROMOTE JCL Build - IMS JOB Information	IMS JOB Information panel
PROMOTE JCL Build - Generate the Job Stream	Generate JOB Stream panel
SAVE PROCESSING	Save Processing panel

Phase 1 — Promoting the Sample Definitions

This phase verifies the correct installation of the Definition Processor and promotes the sample definitions delivered with VISION:Inform.

Starting the Definition Processor

Note: Bold underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

Start the VISION:Inform Definition Processor, based upon the manner in which it was installed, to display the VISION:Workbench for ISPF Selection Menu (Selection Menu) as shown in Panel 1.

```
SELMENU ----- VISION:Workbench for ISPF Selection Menu -----
OPTION  ===> 3

          VISION:Workbench Release 6.0
.
1 - BL (M4) Workbench for VISION:Builder 14.0
2 - TR (M5) Workbench for VISION:Transact 7.5
3 - IN (DA) Workbench for VISION:Inform 4.0 (Definition Processor)

T - Introduction To VISION:Workbench for ISPF
X - Exit the VISION:Workbench
```

Figure 4-1 Panel 1 — VISION:Workbench for ISPF Selection Menu (Selection Menu)

Enter a '3' in the Command area, as shown in blue text. Press Enter to display the next panel, which is the DEFINITION PROCESSOR FACILITY (also known as the Definition Processor menu).

When the Definition Processor menu initially appears (see Panel 2), the Command area is empty, that is, the area to the right of OPTION ==> field is blank.

```
PRIMMENU ----- VISION:Inform DEFINITION PROCESSOR FACILITY -----
OPTION ==> 31

      10  PARAMETERS - Specify Session Parameters
      19  IMPORT      - Import File Definitions from External Sources

      20  TABLE      - Create Table Definitions
      21  FILE        - Create File Definitions
      22  LDV         - Create Logical Data View Definitions
      23  PROCEDURE   - Create Procedures

      30  DISPLAY     - Review Definitions in Background Library
      31  PROMOTE     - Maintain Background and Foreground Libraries

      99  Requests    - Create Requests

      T   TUTORIAL    - View Definition Processor Tutorial
      X   EXIT        - Exit Definition Processor

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```

Figure 4-2 Panel 2 — Definition Processor Main Menu

Enter '31' in the Command area, as shown in Panel 2.

Press Enter to display the MAINTAINING the Background and Foreground Libraries panel (also known as the Promote panel).

The data entry areas, which are shown in Panel 3, are initially empty.

```

M9JK20  ----- MAINTAINING the Background and Foreground Libraries -----
COMMAND ==>

  PROMOTE  - Enter the Data Set Names and Parameters needed for Building
             a JCL Job Stream that will be Run to Promote Definitions:

From DEFINITION Library    ==> 'INFORM.DEFLIB'

To   BACKGROUND Library    ==> 'INFORM.BGLIB'
And  FOREGROUND Library    ==> 'INFORM.FGLIB'
For  ONLINE Environment    ==> CICS

General Run Parameters  for the Promote

Run Type                ==> REAL      TEST or REAL Promote Run
Promote to FG Lib       ==> ALL       ALL BG Lib Items, SELECT Items, or NONE
Print Glossaries        ==> YES       NO or YES - for every promoted definition
Condense BGLIB          ==> YES       NO or YES - compress unused space
Procedures to BG        ==> YES       NO or YES - promote associated procedures

Use  ENTER  to process information and continue to Items selection panel
                        or to JCL Build panel
Use  END    to save the information and exit
Use  CANCEL to exit without save

```

Figure 4-3 Panel 3 — Maintaining the Background and Foreground Libraries Panel (Promote Panel)

Enter the definition, background, and foreground library names (as assigned during installation in INFORM.JCL member INIT or INIT2), as well as the parameters for the Promote process. User input is shown in bold, underlined text (blue online) in Panel 3. Enter CICS for the online environment.

Press Enter to display the SELECT Definition Library Items panel (also known as the Select Items panel).

The Select Items panel appears.

```
M9JK21  -- 'INFORM.DEFLIB' -----
COMMAND ==>

  SELECT Definition Library Items - Use P to Promote and D to Delete
           Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED      CHANGED      SIZE  INIT  MOD   ID
*****
***** BOTTOM OF DATA *****

>>>> Press the ENTER KEY to Build the Item Selection List. <<<<
>>>> Press the END  KEY to Bypass the Item Selection List. <<<<
>>>> <<<<
This panel is used to Select the Items that will be Promoted from the
Definition Library to the Background Library or to specify which items are
to be deleted from the Background and Foreground Libraries.
```

Figure 4-4 Panel 4 — SELECT Definition Library Items Panel (Select Items Panel)

Press Enter to build and display the list of members in the definition library.

The Select Items panel re-displays.

```
M9JK21  -- 'INFORM.DEFLIB' ----- ROW 1 TO 4 OF 4
COMMAND ==>

  SELECT Definition Library Items - Use P to Promote and D to Delete
           Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED      CHANGED      SIZE  INIT  MOD   ID
\  \  ACCOUNT  T  01.01  92/08/18  92/08/18 15:35    5    5    0  ISPLAG1
\  \  FINANCE  F  01.12  89/05/05  92/09/11 12:30   169   108   0  ISPGOA2
\  \  LOGFD   F  01.06  89/05/04  92/09/02 17:31   182   154   0  ISPLAG1
\  \  QUARTER  T  01.01  92/08/18  92/08/18 15:35    5    5    0  ISPLAG1
*****
***** BOTTOM OF DATA*****
```

Figure 4-5 Panel 5 — Select Items Panel with Build and Display of Members

A list of the items in the VISION:Inform installation definition library appears. These are the definitions for the FINANCE test database (ACCOUNT, FINANCE, and QUARTER), and for the VISION:Inform Background Processor sequential log file (LOGFD).

```

M9JK21  -- 'INFORM.DEFLIB' ----- ROW 1 TO 4 OF 4
COMMAND ==>

  SELECT Definition Library Items - Use P to Promote and D to Delete
          Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER to process selection entries
Use END   to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP  VV.MM  CREATED      CHANGED      SIZE  INIT  MOD  ID
p  \      ACCOUNT  T    01.01  92/08/18  92/08/18 15:35    5     5    0  ISPLAG1
p  \      FINANCE  F    01.12  89/05/05  92/09/11 12:30   169   108   0  ISPGOA2
p  \      LOGFD    F    01.06  89/05/04  92/09/02 17:31   182   154   0  ISPLAG1
p  \      QUARTER  T    01.01  92/08/18  92/08/18 15:35    5     5    0  ISPLAG1
***** BOTTOM OF DATA *****

```

Figure 4-6 Panel 6 — Select Items Panel with Items to Promote

In Panel 6, enter a 'p' in the SEL column next to each of the definitions to be promoted.

When you finish marking definitions to be promoted, press Enter.

The panel re-displays with a message below the Command area.

```
M9JK21  -- 'INFORM.DEFLIB' ----- ROW 4 TO 4 OF 4
COMMAND ==>
Item selections processed. Enter a command or more selections.
  SELECT Definition Library Items - Use P to Promote and D to Delete
        Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED      CHANGED      SIZE  INIT  MOD   ID
P  '    QUARTER    T   01.01 92/08/18 92/08/18 15:35    5    5    0 ISPLAG1
***** BOTTOM OF DATA*****
```

Figure 4-7 Panel 7 — Select Items Panel with Items Selections Processed Message

The message ('Item selections processed. Enter a command or more selections. '), appears when the items to be promoted have been selected and are ready to process.

Use the End command (PF3) to continue the Promote process and display the Promote JCL Build — Job information panel (also known as the JOB Information Panel).

Panel 8 shows the JOB Information panel.

```

M9JK22 ----- PROMOTE JCL Build - JOB Information -----
COMMAND ==>

                Provide the JOB Control Information for the Promote JCL
JOB Statement
==> //          JOB(
==> //*
==> //*

JOBLIBs - Enter the VISION:Inform Program Libraries
LOAD  Library ==> 'INFORM.LOADLIB'
CLIST Library ==> 'INFORM.CLIST'

OUTPUT Destination Information
Promote Run Log      ==> SYSOUT=*
Glossary Listings   ==> SYSOUT=*
Foreground Promote Log ==> SYSOUT=*
Temporary Library Space ==> 0300 (Tracks)

Use ENTER to complete the JCL Job Stream Build

Use END to save the information and exit
Use CANCEL to exit without save

```

Figure 4-8 Panel 8 — Promote JCL Build — Job Information Panel

In the JOB Information panel:

1. Modify the JOB statement to conform to your installation's standards.
2. Specify the VISION:Inform LOAD and CLIST libraries.
3. Modify the OUTPUT Destination Information section of the panel, at this time, if necessary.
4. Press Enter to display the next panel.

The PROMOTE JCL Build — Generate the Job Stream panel appears. The blue underlined text areas are initially empty.

```

M9JK23  ----- PROMOTE JCL Build - Generate the Job Stream -----
COMMAND ==>

      The Promote Job Stream JCL will be generated and placed in the
      following Data Set and Member ready for you to Submit and Run.
      The generated JCL will be displayed for you in EDIT mode.

JCL Library for the Promote Job Stream

Data Set Name  ==> 'INFORM.JCL'
Member Name    ==> PROMOTE (replaces existing member)

Use  ENTER  to generated the Promote Job Stream JCL
Use  END    to save the information and exit
Use  CANCEL to exit without save

```

Figure 4-9 Panel 9 — Promote JCL Build — Generate the Job Stream Panel

Enter the name of the JCL library where you want to save the generated Promote JCL. You can supply a different member name as well.

Press Enter to generate the job stream JCL.

The next panel displays a message.

```

***-----***
***                                     ***
***          THE PROMOTE RUN JOB STREAM JCL          ***
***          HAS BEEN BUILT AND STORED.              ***
***                                     ***
***          PRESS THE ENTER KEY                     ***
***          TO REVIEW AND EDIT THE JCL MEMBER.       ***
***                                     ***
***-----***
***

```

Figure 4-10 Panel 10 — Promote JCL Generated Messages

The message indicates that the Promote JCL has been built and saved.

Press Enter to display the Promote JCL in an ISPF Edit session, as shown in the next panel.

Initially, the Command area is empty in the ISPF Edit session. The Command area is the area to the right of COMMAND ==> in Panel 11.

```

EDIT      INFORM.JCL(PROMOTE) - 01.00                      Columns 00001 00072
Command ==> submit                                         Scroll ==> PAGE
***** ***** Top of Data *****
000001 //JOBNAME JOB (ACCOUNTING INFORMATION),MSGCLASS=X
000002 //*
000003 //*
000004 //*              INFORM LOADLIB
000005 //JOBLIB DD DSN=INFORM.LOADLIB,DISP=SHR
000006 //*              IBM LANGUAGE ENVIRON LIB
000007 //*
000008 //*      DD DSN=IBM.LANGUAGE.ENVR.RUNLIB,DISP=SHR
000009 //*
000010 //*
000011 //* THE PRIMARY PROMOTE STEP FOR CICS AND IMS ENVIRONMENTS
000012 //*
000013 //*              TSO ENVIRONMENT PROGRAM
000014 //PROMOTE EXEC PGM=IKJEFT01,REGION=3072K
000015 //*
000016 //*              INFORM CLIST LIBRARY
000017 //SYSEXEC DD DSN=INFORM.CLIST,DISP=SHR
000018 //*              TSO ENVR PROG MSG LIST
000019 //SYSTSPRT DD SYSOUT=*

```

Figure 4-11 Panel 11 — ISPF Session with Promote JCL

Enter 'submit' in the Command area to complete the Promote process.

Press Enter to submit the job.

After the job submits, use the End command (PF3) to return to the Promote panel.

After the submit, and on return to the Promote panel, a message ('Promote Dialog completed.') appears in the Message area.

```

M9JK20 ----- MAINTAINING the Background and Foreground Libraries -----
COMMAND ==> end
Promote Dialog completed.
  PROMOTE - Enter the Data Set Names and Parameters needed for Building
            a JCL Job Stream that will be Run to Promote Definitions:

From DEFINITION Library  ==> 'INFORM.DEFLIB'

To   BACKGROUND Library  ==> 'INFORM.BGLIB'
And  FOREGROUND Library  ==> 'INFORM.FGLIB'
For  ONLINE Environment  ==> CICS

General Run Parameters  for the Promote

Run Type           ==> REAL      TEST or REAL Promote Run
Promote to FG Lib  ==> ALL       ALL BG Lib Items, SELECT Items, or NONE
Print Glossaries   ==> YES       NO or YES - for every promoted definition
Condense BGLIB     ==> YES       NO or YES - compress unused space
Procedures to BG   ==> YES       NO or YES - promote associated procedures

Use  ENTER  to process information and continue to Items selection panel
                        or to JCL Build panel
Use  END    to save the information and exit
Use  CANCEL to exit without save

```

Figure 4-12 Panel 12 — Promote Panel with Promote Dialog Completed Message

Use the End command (PF3) to return to the Definition Processor menu.

The Definition Processor menu appears.

```
OPTION ==>

    10 PARAMETERS - Specify Session Parameters
    19 IMPORT      - Import File Definitions from External Sources
    20 TABLE     - Create Table Definitions
    21 FILE        - Create File Definitions
    22 LDV         - Create Logical Data View Definitions
    23 PROCEDURE   - Create Procedures

    30 DISPLAY    - Review Definitions in Background Library
    31 PROMOTE     - Maintain Background and Foreground Libraries

    99 Requests   - Create Requests

    T TUTORIAL    - View Definition Processor Tutorial
    X EXIT        - Exit Definition Processor

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```

Figure 4-13 Panel 13 — Definition Processor Menu

Check the job output queue and verify that the Promote job has completed successfully. When the job completes, you are ready to move on the next phase of the IVP.

Phase 2 — Creating a Logical Data View

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

This phase builds a new logical data view definition, using the sample FINANCE file definition. This phase picks up where the previous phase left off, in the Definition Processor menu.

```
OPTION ==> 22

      10 PARAMETERS - Specify Session Parameters
      19 IMPORT      - Import File Definitions from External Sources
      20 TABLE      - Create Table Definitions
      21 FILE         - Create File Definitions
      22 LDV          - Create Logical Data View Definitions
      23 PROCEDURE    - Create Procedures

      30 DISPLAY      - Review Definitions in Background Library
      31 PROMOTE      - Maintain Background and Foreground Libraries

      99 Requests     - Create Requests

      T TUTORIAL      - View Definition Processor Tutorial
      X EXIT           - Exit Definition Processor

                                         Computer Associates International, Inc. (CA)
```

Figure 4-14 Panel 1 — Definition Processor Menu

This is the panel that appears at the completion of [Phase 1 — Promoting the Sample Definitions](#) of the IVP.

To build a logical data view definition, enter '22' in the Command area, as shown in Panel 1.

Press Enter to display the next panel, the DEFINITION LIBRARY SPECIFICATION panel (also known as the Definition panel).

When the DEFINITION LIBRARY SPECIFICATION panel appears, the blue underlined text area is initially empty.

```
LDV ----- DEFINITION LIBRARY SPECIFICATION-----
COMMAND ==>

ISPF DEFINITION LIBRARY:
  Project ==>
  Group   ==>           ==>           ==>           ==>
  Type    ==>
  Def Name ==>           (leave blank to view member selection list)

OTHER DEFINITION LIBRARY:
  Library Name ==> 'INFORM.DEFLIB'
  Volume Serial ==>           (if not cataloged)

Library Password ==>           (if password protected)
```

Figure 4-15 Panel 2 — Definition Panel

Enter your definition library data set name in either the ISPF DEFINITION LIBRARY field or the OTHER DEFINITION LIBRARY field, as shown in Panel 2, above.

Press Enter to display the Member Selection panel, as shown in the the following panel, Panel 3.

When the Member Selection panel appears, the Command area is initially empty.

```
ITMSELCT---- INFORM.DEFLIB ----- ROW 1 TO 4 OF 4
COMMAND ==> s finivp                SCROLL ==> CSR
```

Name	Newname	LIB	VV.MM	Created	Last Modified	Size	Init	Mod	ID
ACCOUNT		1	01 01	92/08/18	92/08/18 15:35	5	5	0	ISPLAG1
FINANCE		1	01 12	89/05/05	92/09/11 12:30	169	108	0	ISPGOA2
LOGFD		1	01 06	89/05/04	92/09/02 17:31	182	154	0	ISPLAG1
QUARTER		1	01 01	92/08/18	92/08/18 15:35	5	5	0	ISPLAG1

***** BOTTOM OF DATA *****

Figure 4-16 Panel 3 — Member Selection Panel

To create a logical data view called, FINIVP, enter 's finivp' in the Command area, as shown above.

Press Enter to display the next panel, the LOGICAL DATA VIEW DEFINITION menu (also known as the LDV menu).

The LDV menu appears, as shown in Panel 4. The Command area is initially empty.

```
LDVMENU ----- INFORM.DEFLIB (FINIVP)-----
OPTION ==> 2

                LOGICAL DATA VIEW DEFINITION: FINIVP

      1  COMMENTS   - Document Logical Dataview
      2  FILES       - Specify Files To Be Logically Joined
      3  PROCEDURES - Specify Procedures (and/or requests) To Be Invoked
```

Figure 4-17 Panel 4 — LOGICAL DATA VIEW DEFINITION menu

To specify the files from which to create the logical data view, select the FILES option by entering a '2' in the Command area, as shown in Panel 4.

Press Enter to display the LOGICAL DATA VIEW DEFINITION panel (also known as the LDV Definition panel).

When the panel re-displays, the entries appear in uppercase, as shown in Panel 6. The Line Cmd column to the left of the File Def Name column is initially empty.

LDVFILES ----- INFORM.DEFLIB (FINIVP) ----- ROW 1 OF 12
COMMAND ==> SCROLL ==> CSR

LOGICAL DATA VIEW DEFINITION: FINIVP

DBM Storage (IMS) ==> _____ DB2 Sub-System Id ==> _____
DB2 Plan Name ==> _____ DB2 SQL Id ==> _____
Updater Id ==> _____ Expiration Date ==> __/__/__

Line Cmd	File Def Name	File Usage	File DDname	Synchronize With File - Field Name	Password Auth Id	Optimize Memory?	+Where Stmt?
	FINANCE	DBFILE0	FINANCE			-	-
S'''	FINANCE	DBFILE1	FIN1	0	PROFNO		
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-

***** BOTTOM OF DATA *****

Figure 4-19 Panel 6 — Logical Data View Definition Panel with Selected Item

Place an 's' in the Line Cmd field next to the second FINANCE line, as shown in the blue text area in Panel 6.

Press Enter to display the LDV SEGMENT AND FIELD ALIASES panel (also known as the LDV Segment and Aliases panel), as shown in Panel 7.

[illegible]

Enter 'profgrp' in the Segment or Field Name column, as shown above.

Enter 'ivpgrp' in the Field Alias column, as shown above.

Press Enter to re-display the panel.

Press Enter to re-display the panel.

The Validation panel appears.

```
VALIDATE ----- GLOBAL VALIDATION PROCESSING -----  
COMMAND ==>  
  
To perform a Global Validation of the definition before saving, enter  
the name of your VISION:Inform Background Processing Library and press  
enter.  
  
Background Library ==> 'INFORM.BGLIB'  
  
NOTE: Procedures are only validated for statement syntax.  
       Field names are not validated until the procedure is promoted.  
  
  
Press ENTER To Validate The Definition  
Enter END   To By-Pass Validation And Proceed To Save Processing  
Enter CANCEL To Terminate Edit Without Saving The Definition
```

Figure 4-24 Panel 11 — Validation Panel

Enter the name of your background library, as shown in Panel 11.

Press Enter to validate the logical data view and to display the SAVE
PROCESSING panel.

The SAVE PROCESSING panel appears.

```
SAVE ----- SAVE PROCESSING -----  
COMMAND ==>  
VALIDATION SUCCESSFULLY COMPLETED, PRESS ENTER TO SAVE THE DEFINITION  
ISPF DEFINITION LIBRARY:  
  Project ==>  
  Group   ==>  
  Type    ==>  
  Def Name ==>  
  
OTHER DEFINITION LIBRARY:  
  Library Name ==> 'INFORM.DEFLIB (FINIVP) '  
  Volume Serial ==> (if not cataloged)  
  
Library Password ==> (if password protected)  
  
Press ENTER To Save The Definition  
Enter END   To Continue Editing The Definition  
Enter CANCEL To Terminate Edit Without Saving The Definition
```

Figure 4-25 Panel 12 — SAVE PROCESSING Panel with Validation Successfully Completed Message

Note the successful validation message ('VALIDATION SUCCESSFULLY COMPLETED, PRESS ENTER TO SAVE THE DEFINITION') below the Command area. This is the only acceptable message.

Press Enter to save the definition and return to the Member Selection panel.

The Member Selection panel appears.

ITMSELECT---- INFORM.DEFLIB -----										ROW 1 TO 5 OF 5
COMMAND ==>										SCROLL ==> CSR
LDV FINIVP SAVED TO INFORM.DEFLIB										
Name	Newname	LIB	VV.MM	Created	Last Modified	Size	Init	Mod	ID	
ACCOUNT		1	01 01	92/08/18	92/08/18 15:35	5	5	0	ISPLAG1	
FINANCE		1	01 12	89/05/05	92/09/11 12:30	169	108	0	ISPGOA2	
FINIVP		1	01 00	97/12/19	97/12/19 15:49	6	6	0	ISPGOA2	
LOGFD		1	01 06	89/05/04	92/09/02 17:31	182	154	0	ISPLAG1	
QUARTER		1	01 01	92/08/18	92/08/18 15:35	5	5	0	ISPLAG1	
***** BOTTOM OF DATA *****										

Figure 4-26 Panel 13 — Member Selection Panel

The message ('LDV FINIVP SAVED TO INFORM.DEFLIB') below the Command area, confirms the successful save of the FINIVP logical data view definition.

Use the End command (PF3) to return to the DEFINITION LIBRARY SPECIFICATION Panel (also known as the Definition panel).

The Definition panel appears.

LDV -----				DEFINITION LIBRARY SPECIFICATION-----							
COMMAND ==>											
ISPF DEFINITION LIBRARY:											
Project	==>										
Group	==>	==>		==>		==>					
Type	==>										
Def Name	==>						(leave blank to view member selection list)				
OTHER DEFINITION LIBRARY:											
Library Name	==>	'INFORM.DEFLIB (FINIVP) '									
Volume Serial	==>						(if not cataloged)				
Library Password	==>						(if password protected)				

Figure 4-27 Panel 14 — Definition Panel

Use the End command (PF3) to return to the Main Menu.

The Definition Processor menu appears, as shown in Panel 15.

```
PRIMMENU ----- VISION:Inform DEFINITION PROCESSOR FACILITY -----
OPTION ==> 31

      10 PARAMETERS - Specify Session Parameters
      19 IMPORT      - Import File Definitions from External Sources
      20 TABLE     - Create Table Definitions
      21 FILE        - Create File Definitions
      22 LDV         - Create Logical Data View Definitions
      23 PROCEDURE   - Create Procedures

      30 DISPLAY     - Review Definitions in Background Library
      31 PROMOTE     - Maintain Background and Foreground Libraries

      99 Requests    - Create Requests

      T TUTORIAL     - View Definition Processor Tutorial
      X EXIT         - Exit Definition Processor

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```

Figure 4-28 Panel 15 — Main Menu

To promote the logical data view, enter '31' in the Command area of the Main Menu.

Press Enter to display the MAINTAINING the Background and Foreground Libraries panel (Promote panel).

Note: Previously entered user entries are **bolded**.

The Promote panel appears.

```
M9JK20  ----- MAINTAINING the Background and Foreground Libraries -----
COMMAND ==>

  PROMOTE  - Enter the Data Set Names and Parameters needed for Building
             a JCL Job Stream that will be Run to Promote Definitions:

From DEFINITION Library  ==> 'INFORM.DEFLIB'

To   BACKGROUND Library  ==> 'INFORM.BGLIB'
And  FOREGROUND Library  ==> 'INFORM.FGLIB'
For  ONLINE Environment  ==> CICS

General Run Parameters  for the Promote

Run Type           ==> REAL      TEST or REAL Promote Run
Promote to FG Lib  ==> ALL       ALL BG Lib Items, SELECT Items, or NONE
Print Glossaries   ==> YES       NO or YES - for every promoted definition
Condense BGLIB     ==> YES       NO or YES - compress unused space
Procedures to BG   ==> YES       NO or YES - promote associated procedures

Use  ENTER  to process information and continue to Items selection panel
                        or to JCL Build panel
Use  END    to save the information and exit
Use  CANCEL to exit without save
```

Figure 4-29 Panel 16 — Promote Panel

The definition, background and foreground library names, as well as the parameters for the Promote, are already filled in from the work performed in Phase 1 of the IVP.

Verify the entries in the Promote panel.

From the Promote panel, press Enter to display the Select Items panel.

The Select Items panel appears.

```

M9JK21  -- 'INFORM.DEFLIB' -----
COMMAND ==>

  SELECT Definition Library Items - Use P to Promote and D to Delete
        Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED   CHANGED    SIZE  INIT   MOD    ID
*****
***** BOTTOM OF DATA *****

```

```

>>>>> Press the ENTER KEY to Build the Item Selection List. <<<<<
>>>>> Press the END KEY to Bypass the Item Selection List. <<<<<
>>>>> <<<<<
This panel is used to Select the Items that will be Promoted from the
Definition Library to the Background Library or to specify which items are
to be deleted from the Background and Foreground Libraries.

```

Figure 4-30 Panel 17 — Select Items Panel

Press Enter to display the list of members in the definition library.

The list of members in the definition library appears. Initially, the SEL/GLS column in Panel 18 is at default value.

```
M9JK21  -- 'INFORM.DEFLIB' ----- ROW 1 TO 5 OF 5
COMMAND ==>

  SELECT Definition Library Items - Use P to Promote and D to Delete
          Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED      CHANGED      SIZE  INIT  MOD   ID
' '      ACCOUNT   T  01.01  92/08/18  92/08/18 15:35    5     5    0  ISPLAG1
' '      FINANCE   F  01.12  89/05/05  92/09/11 12:30   169   108   0  ISPGOA2
p '      FINIVP    D  01 00  97/12/19  97/12/19 15:49    6     6    0  ISPGOA2
\ '      LOGFD     F  01.06  89/05/04  92/09/02 17:31   182   154   0  ISPLAG1
\ '      QUARTER   T  01.01  92/08/18  92/08/18 15:35    5     5    0  ISPLAG1
***** BOTTOM OF DATA*****
```

Figure 4-31 Panel 18 — Select Items Panel

Place a 'p' next to the FINIVP definition, as shown on Panel 18.

Press Enter to process the selection of the new logical data view and begin the Promote process.

Note the message ('Item selections processed. Enter a command or more selections.') below the Command area indicating the 'P' selection was processed.

```

M9JK21  -- 'INFORM.DEFLIB' ----- ROW 3 TO 5 OF 5
COMMAND ==>
Item selections processed. Enter a command or more selections.
  SELECT Definition Library Items - Use P to Promote and D to Delete
        Specific Item Glossary - Use X (by location), Y (by name), N (none)

Use ENTER  to process selection entries
Use END    to complete the JCL Job Stream Build
Use CANCEL to exit to the previous display

SEL/GLS  NAME      TYP VV.MM  CREATED      CHANGED      SIZE  INIT  MOD   ID
P '      FINIVP    D  01.02  97/12/17  97/12/17  08:42    6     7    0  ISPDFV1
' '      LOGFD     F  01.06  89/05/04  92/09/02  17:31   182   154   0  ISPLAG1
' '      QUARTER   T  01.01  92/08/18  92/08/18  15:35    5     5    0  ISPLAG1
***** BOTTOM OF DATA *****

```

Figure 4-32 Panel 19 — Select Items Panel

In the Select Items panel, use the End command (PF3) to begin the building of the Promote JCL.

The JOB Information panel appears.

```
M9JK22  ----- PROMOTE JCL Build - JOB Information -----
COMMAND ==>

                Provide the JOB Control Information for the Promote JCL
JOB Statement
==> //JOBNAME  JOB (Accounting information),MSGCLASS=X
==> /*
==> /*

JOBLIBs - Enter the VISION:Inform Program Libraries
LOAD Library ==> 'INFORM.LOADLIB'
CLIST Library ==> 'INFORM.CLIST'

OUTPUT Destination Information
Promote Run Log      ==> SYSOUT=*
Glossary Listings   ==> SYSOUT=*
Foreground Promote Log ==> SYSOUT=*
Temporary Library Space ==> 0300 (Tracks)

Use ENTER to complete the JCL Job Stream Build

Use END to save the information and exit
Use CANCEL to exit without save
```

Figure 4-33 Panel 20 — PROMOTE JCL Build — Job Information Panel

The information on this panel has been already filled in from Phase 1 of this IVP.

1. Verify that the JOB statement contains the correct information.
2. Verify that the VISION:Inform LOAD library is correct.
3. Verify that the CLIST library is correct.
4. Press Enter to display the PROMOTE JCL Build — Generate the Job Stream panel.

The PROMOTE JCL Build — Generate the Job Stream panel appears, as shown in the following panel, Panel 21.

```

M9JK23  ----- PROMOTE JCL Build - Generate the Job Stream -----
COMMAND ===>

      The Promote Job Stream JCL will be generated and placed in the
      following Data Set and Member ready for you to Submit and Run.
      The generated JCL will be displayed for you in EDIT mode.

JCL Library for the Promote Job Stream

Data Set Name  ===> 'INFORM.JCL'

Member Name    ===> PROMOTE      (replaces existing member)

Use  ENTER    to generated the Promote Job Stream JCL

Use  END      to save the information and exit
Use  CANCEL   to exit without save

```

Figure 4-34 Panel 21 — PROMOTE JCL Build — Generate the Job Stream Panel

Enter the name of the JCL library and member name where you want to save the generated Promote JCL.

You can optionally change the member name to specify a new name.

Press Enter.

Panel 22 shows that the Promote JCL has been built and saved.

```

***-----***
***                                     ***
***          THE PROMOTE RUN JOB STREAM JCL          ***
***          HAS BEEN BUILT AND STORED.               ***
***                                     ***
***          PRESS THE ENTER KEY                     ***
***          TO REVIEW AND EDIT THE JCL MEMBER.       ***
***-----***
***

```

Figure 4-35 Panel 22 — Promote JCL Generated Messages

Press Enter to continue to an ISPF edit session with the generated Promote JCL.

Initially, the Command area in Panel 23 is empty.

```

EDIT      INFORM.JCL(PROMOTE) - 01.00                      Columns 00001 00072
Command ==> submit                                         Scroll ==> PAGE
***** ***** Top of Data *****
000001 //JOBNAME JOB (ACCOUNTING INFORMATION),MSGCLASS=X
000002 //*
000003 //*
000004 //*                                INFORM LOADLIB
000005 //JOBLIB DD DSN=INFORM.LOADLIB,DISP=SHR
000006 //*                                IBM LANGUAGE ENVIRON LIB
000007 //*
000008 //* DD DSN=IBM.LANGUAGE.ENVR.RUNLIB,DISP=SHR
000009 //*
000010 //*
000011 //* THE PRIMARY PROMOTE STEP FOR CICS AND IMS ENVIRONMENTS
000012 //*
000013 //*                                TSO ENVIRONMENT PROGRAM
000014 //PROMOTE EXEC PGM=IKJEFT01,REGION=3072K
000015 //*
000016 //*                                INFORM CLIST LIBRARY
000017 //SYSEXEC DD DSN=INFORM.CLIST,DISP=SHR
000018 //*                                TSO ENVR PROG MSG LIST
000019 //SYSTSPRT DD SYSOUT=*

```

Figure 4-36 Panel 23 — Edit the Promote JCL

Enter 'submit' in the Command area and press Enter to complete the Promote process by submitting the job.

```

EDIT      INFORM.JCL(PROMOTE) - 01.00                      Columns 00001 00072
Command ==> end                                           Scroll ==> PAGE
***** ***** Top of Data *****
000001 //JOBNAME JOB (ACCOUNTING INFORMATION),MSGCLASS=X
000002 //*
000003 //*
000004 //*                                INFORM LOADLIB
000005 //JOBLIB DD DSN=INFORM.LOADLIB,DISP=SHR
000006 //*                                IBM LANGUAGE ENVIRON LIB
000007 //*
000008 //* DD DSN=IBM.LANGUAGE.ENVR.RUNLIB,DISP=SHR
000009 //*
000010 //*
000011 //* THE PRIMARY PROMOTE STEP FOR CICS AND IMS ENVIRONMENTS
000012 //*
000013 //*                                TSO ENVIRONMENT PROGRAM
000014 //PROMOTE EXEC PGM=IKJEFT01,REGION=3072K
000015 //*
000016 //*                                INFORM CLIST LIBRARY
000017 //SYSEXEC DD DSN=INFORM.CLIST,DISP=SHR
000018 //*                                TSO ENVR PROG MSG LIST
000019 //SYSTSPRT DD SYSOUT=*

```

Figure 4-37 Panel 24 — Exit INFORM.JCL (PROMOTE JCL)

Use the End command (PF3) to display the Promote panel.

The Promote panel appears. Note the message ('Promote Dialog completed.')

```

M9JK20  ----- MAINTAINING the Background and Foreground Libraries -----
COMMAND ==> end
Promote Dialog completed.
  PROMOTE - Enter the Data Set Names and Parameters needed for Building
            a JCL Job Stream that will be Run to Promote Definitions:

From DEFINITION Library  ==> 'INFORM.DEFLIB'

To   BACKGROUND Library  ==> 'INFORM.BGLIB'
And  FOREGROUND Library  ==> 'INFORM.FGLIB'
For  ONLINE Environment  ==> CICS

General Run Parameters  for the Promote

Run Type          ==> REAL      TEST or REAL Promote Run
Promote to FG Lib ==> ALL       ALL BG Lib Items, SELECT Items, or NONE
Print Glossaries  ==> YES       NO or YES - for every promoted definition
Condense BGLIB    ==> YES       NO or YES - compress unused space
Procedures to BG  ==> YES       NO or YES - promote associated procedures

Use  ENTER  to process information and continue to Items selection panel
                        or to JCL Build panel
Use  END    to save the information and exit
Use  CANCEL to exit without save

```

Figure 4-38 Panel 25 — Exit the Promote Panel

Use the End command (PF3) to return to the Definition Processor menu.

The Definition Processor menu panel appears.

```
OPTION ==> X

      10 PARAMETERS - Specify Session Parameters
      19 IMPORT      - Import File Definitions from External Sources
      20 TABLE      - Create Table Definitions
      21 FILE         - Create File Definitions
      22 LDV          - Create Logical Data View Definitions
      23 PROCEDURE    - Create Procedures

      30 DISPLAY      - Review Definitions in Background Library
      31 PROMOTE      - Maintain Background and Foreground Libraries

      99 Requests     - Create Requests

      T TUTORIAL      - View Definition Processor Tutorial
      X EXIT          - Exit Definition Processor

                                         Computer Associates International, Inc. (CA)
```

Figure 4-39 Panel 23 — Exiting the Definition Processor Menu

To exit the Menu, enter an 'x' in the Command area, as shown in Panel 23.

Press Enter to exit the Definition Processor menu and return to the Selection Menu panel.

The following panel shows the VISION:Workbench for ISPF Selection Menu.

```
SELMENU ----- VISION:Workbench for ISPF Selection Menu -----  
OPTION  ==> X  
  
          VISION:Workbench Release 6.0  
  
1 - BL (M4) Workbench for VISION:Builder 14.0  
2 - TR (M5) Workbench for VISION:Transact 7.5  
3 - IN (DA) Workbench for VISION:Inform 4.0 (Definition Processor)  
  
T - Introduction To VISION:Workbench for ISPF  
X - Exit the VISION:Workbench
```

Figure 4-40 Panel 24 — VISION:Workbench for ISPF Selection Panel

Enter an 'x' in the Command area, as shown in Panel 24.

Press Enter to exit.

Phase 2 of the IVP is now complete. Be sure to check the output from the Promote job in the output queue.

Phase 3 — Performing System Administration Functions

In this phase, you update the SYSTEM profile to add authorizations to access the IVP logical data view created in Phase 2. You can also add an optional password to the SYSTEM profile.

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

This part of the IVP requires that you be logged on to the CICS where you installed VISION:Inform and that you have entered the VISION:Inform transaction code. The default is INFP.

```
Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . system
                                     Password . . . . (if password protected)

                                     +-----+
                                     | Proprietary and confidential information of |
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                                     +-----+

Command ===>
F1 =Help    F3 =Exit
```

Figure 4-41 Panel 1 — Logon Panel

The SYSTEM profile has not yet been updated to handle the IVP files. This and the following panels assume no changes from the delivered system. If the SYSTEM profile has been changed, modify the instructions accordingly.

In the Logon panel, enter the system administrator's user ID and password.

1. Enter 'system' in the User ID field, as shown in Panel 1.
2. Password:
 - Do not enter a password if you are working with the base system.
 - If you are working with a system converted from an earlier release, you need to enter the password for the SYSTEM profile in order to log on to the system.
3. Press Enter to display the Main Menu.

The Main Menu appears.

```
Menu2                                Computer Associates - Main Menu

_ Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                      (Assisted Query Development)
5. Quick Query Immediate Response    (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                      Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-42 Panel 2 — Main Menu

When the Main Menu appears, note that Option 2 is Administration Facilities.

```
Menu2                                Computer Associates - Main Menu

2 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                      (Assisted Query Development)
5. Quick Query Immediate Response    (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                      Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-43 Panel 3 — Main Menu (Selecting Administration Facilities)

Enter '2' in the selection field, as shown in Panel 3.

Press Enter to display the Source Processing panel.

The Source Processing panel appears.

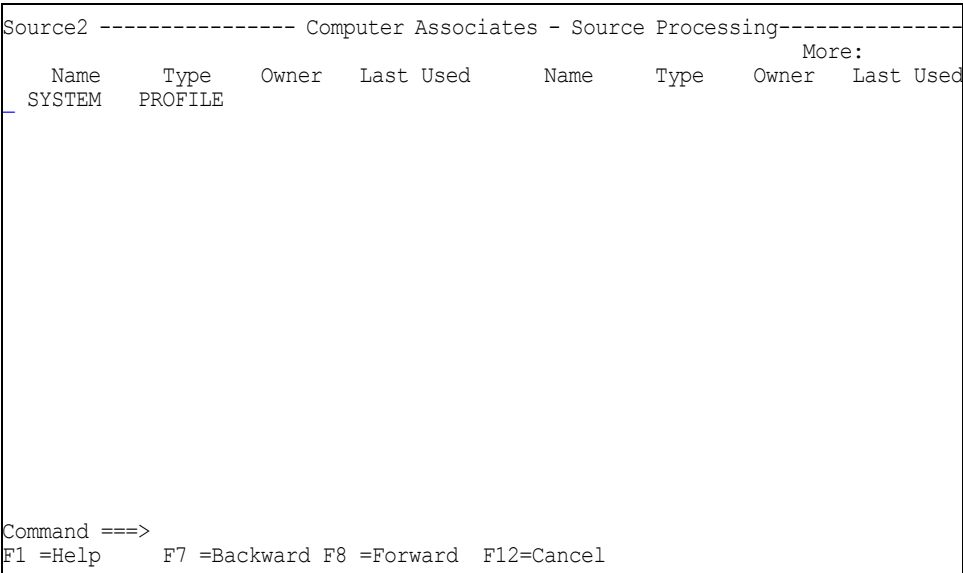


Figure 4-44 Panel 4 — Source Processing Panel

Panel 4, the Source Processing panel, shows the profiles defined to VISION:Inform.

- As this example assumes no other profiles, only the SYSTEM profile appears.
- If you have added other profiles, they also appear on this panel.

Source2 ----- Computer Associates - Source Processing-----							
				More:			
Name	Type	Owner	Last Used	Name	Type	Owner	Last Used
e SYSTEM	PROFILE						
Command ==>							
F1 =Help F7 =Backward F8 =Forward F12=Cancel							

Figure 4-45 Panel 5 — Source Processing Panel

To edit, place an 'e' next to the SYSTEM profile, as shown.

Press Enter to display the Full Screen Editor panel.

If your system contains additional profiles, you can scroll forward to locate the SYSTEM profile or use the LOCATE primary command.

```
Editor2 ----- Computer Associates - Editor ----- Name: SYSTEM   Type: PROFILE
                                                    More: >
000100 PROFILE
000200 END PROFILE

Command ==>
F1 =Help      F3 =Exit      F5 =Rfind      F6 =Rchange    F7 =Backward F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-46 Panel 6 — Full Screen Editor

The Full Screen Editor displays the SYSTEM profile, as it is delivered with VISION:Inform. Your panel could show more statements if the SYSTEM profiles have been changed.

```
Editor2 ----- Computer Associates - Editor ----- Name: SYSTEM   Type: PROFILE
                                                    More: >
i4_100 PROFILE
000200 END PROFILE

Command ==>
F1 =Help      F3 =Exit      F5 =Rfind      F6 =Rchange    F7 =Backward F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-47 Panel 7 — Full Screen Editor (Adding Four Lines)

Enter 'i4' in the Line Command area to insert four empty lines. Press Enter.

After you enter the i4 command to insert four lines, the panel looks like Panel 8.

```
Editor2 ----- Computer Associates - Editor ----- Name: SYSTEM   Type: PROFILE
                                                    More: >
000100 PROFILE
.....
.....
.....
.....
000200 END PROFILE

Command ==>
F1 =Help      F3 =Exit      F5 =Rfind      F6 =Rchange    F7 =Backward  F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-48 Panel 8 — Full Screen Editor (After Four Lines Have Been Inserted)

```
Editor2 ----- Computer Associates - Editor ----- Name: SYSTEM   Type: PROFILE
                                                    More: >
000100 PROFILE password secret
..... include finance
..... end include
..... include finivp
..... end include
000200 END PROFILE

Command ==>
F1 =Help      F3 =Exit      F5 =Rfind     F6 =Rchange   F7 =Backward F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-49 Panel 9 — Full Screen Editor (Enter Statements)

1. Enter the four lines exactly as shown above. The INCLUDE statements provide the profile with explicit access to the FINANCE and FINIVP definitions.
2. You can also add a password as shown in the example.
 - In the IVP, the word 'secret' is used.
 - You can, of course, use whatever password you want.
3. Press Enter.

The Full Screen Editor returns panel displaying the lines you entered with line numbers and in uppercase.

```
Editor2 ----- Computer Associates - Editor ----- Name: SYSTEM  Type: PROFILE
                                                    More:      >
000100 PROFILE PASSWORD SECRET
000110 INCLUDE FINANCE
000120 END INCLUDE
000130 INCLUDE FINIVP
000140 END INCLUDE
000200 END PROFILE

Command ==>
F1 =Help      F3 =Exit      F5 =Rfind      F6 =Rchange    F7 =Backward F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-50 Panel 10 — Verify New Statements in the SYSTEM Profile

Use the Exit command (PF3) to save the profile and return to the Source Processing panel.

```
Source2 ----- Computer Associates - Source Processing-----
                                     More:
      Name      Type      Owner      Last Used      Name      Type      Owner      Last Used
  SYSTEM      PROFILE
  Edited

IY01** Item SYSTEM   type PROFILE   has been saved.
Command ==>
F1 =Help      F7 =Backward F8 =Forward  F12=Cancel
```

The Main Menu appears.

```
Menu2                                Computer Associates - Main Menu

2 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:

1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:

4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                       Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-52 Panel 12 — Main Menu

From the Main Menu, use the Cancel command (PF12) to return to the Logon panel.

The Logon panel appears

```
Logon2                               Computer Associates - Logon

Welcome to VISION:Inform Release 4.0.

Please Enter Your User ID and Password:

User ID . . . . system
Password . . . . (if password protected)

+-----+
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| Computer Associates International, Inc.     |
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| as an unpublished work. All rights reserved. |
+-----+

Command ==>
F1 =Help      F3 =Exit
```

Figure 4-53 Panel 13 — Logon Panel

You are now ready to proceed to the next phase of the IVP.

Phase 4 — Running the Background Processor

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

This phase verifies the installation of the Background Processor.

In this phase, you will:

- Create and modify the Background Processor control member.
- Create and modify the Background Processor JCL.
- Submit the Background Processor job.

Make the indicated changes to your JCL and the control statements. Then submit the job. When the Background Processor is up and running, go to Phase 5.

Note that once the query has been processed, the Background Processor is not active. It is waiting for more work. Phase 8 terminates the Background Processor for 3270 platforms and Phase 7 terminates the Background Processor for remote platforms.

Background Processor Job Steps

There are three steps to the Background Processor job.

1. The first step is an IDCAMS VERIFY that will probably return a condition code of 12 because the foreground library is allocated to CICS. Ignore this return code. The Background Processor uses the library as read-only. No updates take place.
2. The second step is the Background Processor. This step should end with a condition code of zero. It also creates a log file on disk.
3. The third step is an IEBPTPCH to print the log file. This step is added to the standard EXECOS job for the IVP.

Creating OSCIVP

1. Create a new member named OSCIVP in INFORM.SRCLIB by copying the existing member, OSCNTL.

The following statements, which make up the new member OSCIVP, control the Background Processor.

- The Background Processor will stay up for one hour (MAXTIME 60).
- The two DATABASE statements are required.
- Use Phase 7 or Phase 8 to shut down the Background Processor from the CICS region.
- This confirms communication between the Background Processor and VISION:Inform in CICS.

```

CONTROL  NAME BGIVP  MAXTIME 60 QTIME 1
DATABASE NAME FINANCE  HELD AWAITING
DATABASE NAME FINIVP   HELD AWAITING
BS00 LOG      STAT
BT00 LOG      STAT
BE00 LOG      STAT
CE00 LOG      STAT
DB00 LOG      STAT
LG00 LOG      STAT
QS00 LOG      STAT      WRAPNO 40
QT00 LOG      STAT
QE00 LOG      STAT

```

1. Copy the JCL member EXECOS in INFORM.JCL to a new member, IVPOS.

- The excerpt of JCL below shows the changes to be made to IVPOS. The blue underlined text areas show the lines that you need to add or change for the IVP.

Figure 4-54 Member EXECOS

```

//*****
//* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.
//* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:
//*
//* RGN      - THE REGION SIZE. THE DEFAULT IS 1200K.
//* LOADLIB  - THE INFORM INSTALLATION LOAD LIBRARY.
//* SORTLIB  - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB).
//* FGLIB    - THE INFORM FOREGROUND LIBRARY.
//* INFCOM   - THE INFORM COMMUNICATION FILE.
//* INFLOG   - THE INFORM HARDCOPY LOG FILE.
//* BGLIB    - THE INFORM BACKGROUND LIBRARY.
//* REPORTS  - THE DATASET FOR PRINTED REPORTS.
//* RUNCNTL  - THE DATASET CONTAINING THE BACKGROUND PROCESSOR INPUT
//*              PARAMETERS. **** NOTE **** SAMPLE CONTROL INPUT EXISTS
//*              MEMBER OSCNTL OF DATASET 'INFORM.SRCLIB'.
//* HCSCFG   - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF
//*              ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER
//*              NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO
//*              USED FOR THE HOST CONNECT SERVER WITH INTRACCESS.
//* HTMP TPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML
//*              TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS
//*              THE INSTALLATION SOURCE LIBRARY.
//* M4REPO   - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE.
//* M4SORT   - BACKGROUND PROCESSOR SORT CONTROL INPUT/OUTPUT.
//* M4REPI   - BACKGROUND PROCESSOR WORK FILE, SORT OUTPUT FILE.
//*****
//EXECOS EXEC EXECOS,RGN=1200K,
//              LOADLIB='INFORM.LOADLIB',           These files are
//              SORTLIB='SYS1.SORTLIB',              shown using the
//              FGLIB='INFORM.FGLIB',                default installation
//              INFCOM='INFORM.INFCOM',              names. You would
//              INFLOG='INFORM.INFLOG',              use your own names,
//              BGLIB='INFORM.BGLIB',                of course...
//              REPORTS='INFORM.REPORTS',
//              RUNCNTL='INFORM.SRCLIB(OSCNTL)',      Note new member name
//              HCSCFG='INFORM.SRCLIB(HCSCNFIG)',
//              HTMP TPL='INFORM.SRCLIB',
//              M4REPO='INFORM.M4REPO',
//              M4SORT='INFORM.M4SORT',
//              M4REPI='INFORM.M4REPI'
//VER.SYSIN DD *
//              VERIFY FILE(FGLIB)
//              VERIFY FILE(INFCOM)
//              VERIFY FILE(BGLIB)
//INFBG.FINANCE DD DISP=SHR,DSN=INFORM.FINANCE      Add these two DD
//INFBG.FIN1 DD DISP=SHR,DSN=INFORM.FINANCE          statements
//***** SOME MORE LINES LEFT OUT *****
//*****

```

Figure 4-55 Member EXECOS

The two files in the JCL above are the FINANCE file used in the IVP. The FINANCE file is delivered as a part of the VISION:Inform installation tape.

3. Add the following JCL (to print the log file) to the Background Processor JCL for running the IVP.

```
//PRT EXEC PGM=IEBPTPCH
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD DISP=SHR,DSN=INFORM.INFLOG
//SYSUT2 DD SYSOUT=*,DCB=(LRECL=133,BLKSIZE=133)
//SYSIN DD *
PRINT TYPORG=PS,MAXFLDS=1
TITLE ITEM=('VISION:INFORM IVP BACKGROUND LOG FILE',37)
TITLE ITEM=(' ')
RECORD FIELD=(132)
```

Figure 4-56 JCL to Print the Log File

4. Submit the job.

Phase 5 — Verifying Promoted Definitions

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

This phase verifies the Promote process from [Phase 1 — Promoting the Sample Definitions](#) and [Phase 2 — Creating a Logical Data View](#).

In [Phase 3 — Performing System Administration Functions](#) of the IVP, you modified the SYSTEM profile. This phase assumes you added a password. If you did not, ignore the instructions about the password.

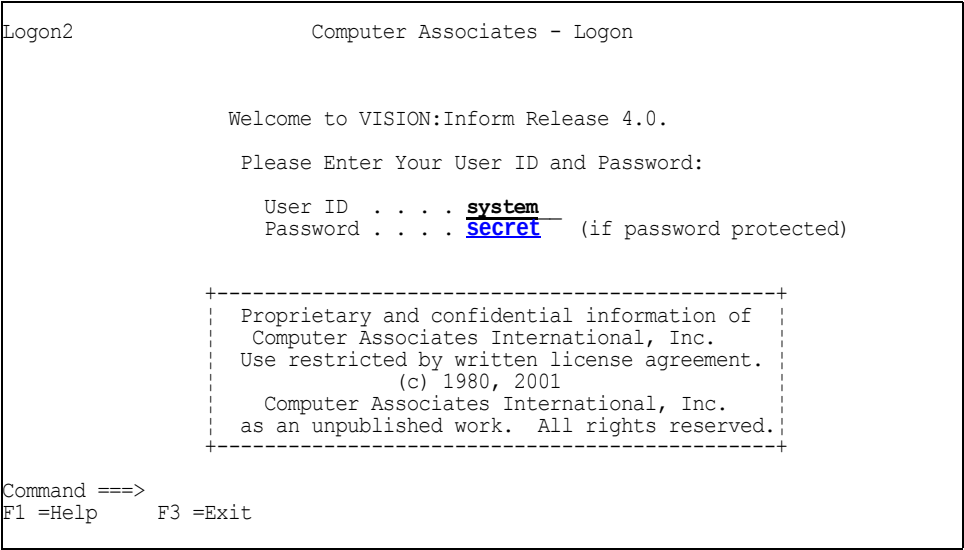


Figure 4-57 Panel 1 — Logon Panel

Enter 'system' in the User ID field and the password ('secret' in the example) in the Password field. Note that the password, when entered, does not actually appear visible in the non-display Password field.

Press Enter to display the Main Menu.

Note that the Main Menu Options Selection field (the area in front of the word Enter) is initially empty.

Menu2	Computer Associates - Main Menu
6 Enter one of the following VISION:Inform or VISION:Bridge Options:	
VISION:Inform Options:	
1. Operation Facilities	(Background Processor Status)
2. Administration Facilities	(Profile Development)
3. Report Facilities	(Report Handling)
VISION:Bridge Options:	
4. Quick Query	(Assisted Query Development)
5. Quick Query Immediate Response	(Assisted Query Development)
6. Standard Query Processing	(Submit, Delete, Edit Queries and Stmts)
7. Immediate Response Query Processing	(Run Queries and Immed Mode)
Command ==>	
F1 =Help	F12=Cancel

Figure 4-58 Panel 2 — Main Menu

Enter a '6' in the Options Selection field, as shown in blue text in Panel 2.

Press Enter to display the Source Processing panel.

The Source Processing panel initially displays an empty Command area.

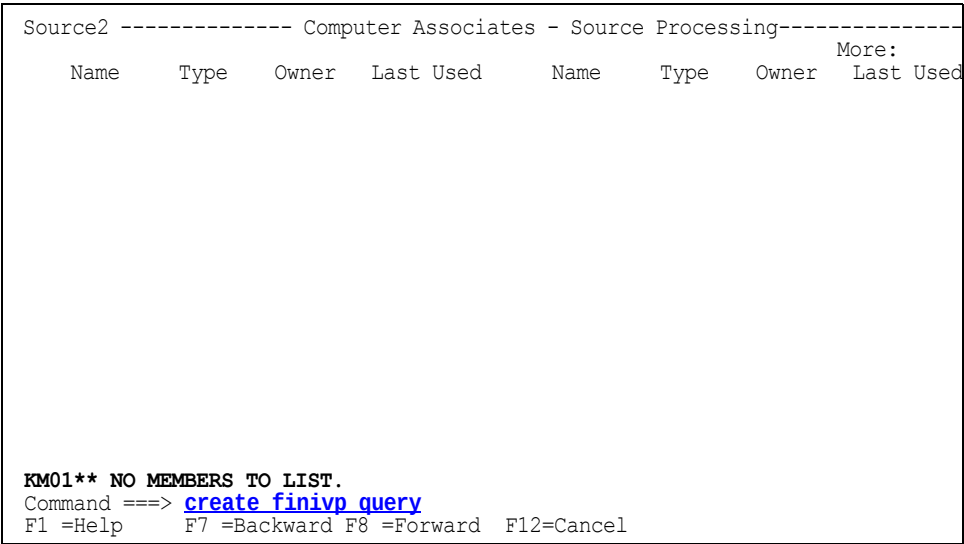


Figure 4-59 Panel 3 — Source Processing Panel

Enter 'create finivp query' in the Command area, as shown in blue text at the bottom of Panel 3. Note the KM01 message, which indicates there are no items to list for the SYSTEM user ID. If queries exist, they are listed on this panel, and the KM01 message does not display.

Press Enter to proceed to the Full Screen Editor.

The Full Screen Editor text area and Command area are initially empty.

```
Editor2 ----- Computer Associates - Editor ----- Name: FINIVP   Type: QUERY
More: >

.....

Command ==> dataview
F1 =Help    F3 =Exit    F5 =Rfind    F6 =Rchange  F7 =Backward F8 =Forward
F10=Left    F11=Right   F12=Cancel
```

Figure 4-60 Panel 4 — Full Screen Editor

Enter the 'dataview' command in the Command area and press Enter for the Editor to display a pop-up panel listing the available data views.

Note: The terms 'data view' and 'logical data view' are seen as the word 'dataview' in the product.

[illegible]

The list contains FINANCE and FINIVP, which were promoted earlier in the IVP.

Place an 's' next to the FINIVP dataview in the pop-up panel as shown in Panel 5.

Press Enter for the Editor to display another pop-up panel (Fields panel) with a list of the fields in the FINIVP data view.

You select a field for the query using the Fields pop-up panel on the right.

```
Editor2 ----- Computer Associates-Editor ----- Name: FINIVP Type: QUERY
```

```
+-----+  
Fields2 Computer Associates-Fields  
Dataview: FINANCE More: +  
ACCOUNT  
- ACCOUNT AMOUNT  
s ACCOUNT BUDGET AMOUNT  
ACCOUNT CHARGE MONTH  
- ACCOUNT CHARGE PERIOD  
- ACCOUNT CHARGE YEAR  
- ACCOUNT DATE  
- ACCOUNT DAY  
- ACCOUNT DESCRIPTION  
- ACCOUNT MONTH  
- ACCOUNT NUMBER  
- ACCOUNT TYPE  
- ACCOUNT YEAR  
- ACCTCNT  
- DATECNT  
  
Command ==>  
F1 =Help F7 =Backward  
F8 =Forward F12=Cancel  
+-----+
```

```
F10=Left F11=Right F12=Cancel
```

Figure 4-62 Panel 6 — The Fields Pop-up Panel

Enter an 's' next to the ACCOUNT_BUDGET_AMOUNT field, as shown in the pop-up panel in Panel 6.

Press Enter to display the Fields Detail pop-up panel.

The Fields Detail pop-up panel appears across the top

```
Editor2 ----- Computer Associates - Editor ---- Name: FINIVP   Type: QUERY
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Detail2                Computer Associates-Detail                |
|                                                                    |
| Details for Field: ACCOUNT_BUDGET AMOUNT          DataView: FINANCE |
| Dsc: The budgeted dollar amounts for each account. Primary Name: ACTAMTBD |
| Type: PACKD Decimals:      Length:  5 Print Length: 12 Start:  16 |
| Key Field Ind:             Segment: DATESEG        Parent: ACCTNUMB |
|                                                                    |
| Command ==>                                                    |
| F1 =Help      F12=Cancel                                         |
|                                                                    |
+-----+-----+-----+-----+-----+-----+-----+-----+
| ..... | | ACCOUNT_MONTH |
| ..... | | ACCOUNT_NUMBER |
| ..... | | ACCOUNT_TYPE |
| ..... | | ACCOUNT_YEAR |
| ..... | | ACCTCNT |
| ..... | | DATECNT |
| ..... | |
| Command ==> |
| F1 =Help    F3 =Exit    F5 =Rfind |
| F10=Left    F11=Right   F12=Cancel |
+-----+-----+-----+-----+-----+-----+-----+-----+
|                                                                    |
| F1 =Help    F7 =Backward |
| F8 =Forward  F12=Cancel  |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

Figure 4-63 Panel 7 — Fields Detail Pop-up Panel

The detailed fields information for the selected field is shown above.

In the Fields Detail pop-up panel, enter the Cancel command (PF12) to return to the previous panel, the Fields pop-up panel.

The Dataview pop-up panel appears on the right.

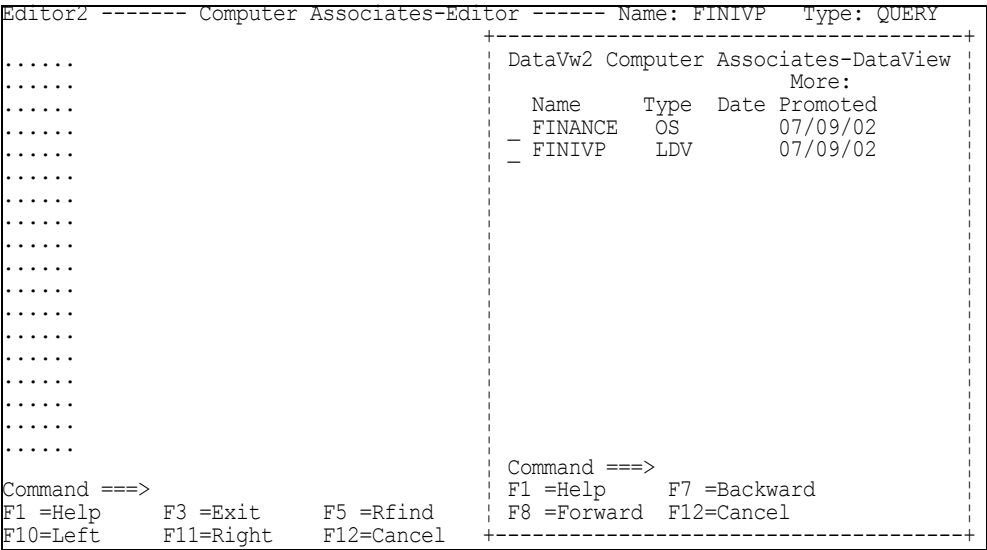


Figure 4-65 Panel 9 — Dataview Pop-up Panel After the Fields Pop-up Panel

You have now verified that the Promote process functions correctly.

From the Dataview pop-up panel, use the Cancel command (PF12) to return to the Full Screen Editor.


```
Editor2 ----- Computer Associates - Editor ----- Name: FINIVP      Type: QUERY  
More: >  
  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .  
  
Command ==>  
F1 =Help       F3 =Exit     F5 =Rfind    F6 =Rchange  F7 =Backward F8 =Forward  
F10=Left      F11=Right   F12=Cancel
```

- If you are using a 3270 platform for query development, skip the rest of this phase and proceed to [Phase 6 — Creating a Query for 3270 Platforms on page 4-65](#).
- If you are using a remote platform product for query development, finish the subsection which follows, skip Phase 6, and proceed to [Phase 7 — Creating a Query for Remote Platforms on page 4-75](#).

Exiting for Remote Platform Users Only

Remote platform users proceed with the following steps:

1. Use the Cancel command (PF12) to continue back to the Source Processing panel.
2. Then use the Cancel command (PF12) again to return to the Main Menu.
3. From the Main Menu, the Cancel command returns you to the Logon panel, where the Exit command (PF3) terminates VISION:Inform.

The last screen after the Exit command on the Logon panel appears, as shown in Panel 1.

```
Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
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                                     +-----+

#800** Please press the CLEAR key to exit the session.
Command ==>
F1 =Help   F3 =Exit
```

Figure 4-67 Panel 11 — Terminating the VISION:Inform CICS Transaction

Note the #800 message above the Command area. Use the CLEAR key to return to a blank CICS screen. Skip Phase 6 and proceed to [Phase 7 — Creating a Query for Remote Platforms on page 4-75](#).

To create a query for the FINIVP logical data view, enter the four lines, as shown in blue text in the following panel.

[illegible]

Figure 4-69 Panel 2 — Entering a Query in the Full Screen Editor

Verify your entries and press Enter.

The statements you entered re-display with line numbers and in uppercase text, as shown in Panel 3.

```
Editor2 ----- Computer Associates - Editor ----- Name: FINIVP      Type: QUERY
                                                    More:      >

000100 QUERY DATABASE FINIVP
000200 REPORT PROFGRP IVPGRP
000300 END REPORT
000400 END QUERY

Command ===>
F1 =Help      F3 =Exit      F5 =Rfind     F6 =Rchange   F7 =Backward F8 =Forward
F10=Left      F11=Right     F12=Cancel
```

Figure 4-70 Panel 3 — Full Screen Editor with Entered Query

```
Editor2 ----- Computer Associates - Editor ----- Name: FINIVP   Type: QUERY
More: >
000100 QUERY DATABASE FINIVP
000200 REPORT PROFGRP IVPGRP
000300 END REPORT
000400 END QUERY

Command ==> validate
F1 =Help    F3 =Exit    F5 =Rfind    F6 =Rchange  F7 =Backward F8 =Forward
F10=Left    F11=Right   F12=Cancel
```

Figure 4-71 Panel 4 — Full Screen Editor

Enter 'validate' in the Command area, as shown at the bottom of Panel 4.

Press Enter to execute the command for your query.

After the query has been validated, the panel looks like the following.

```
Editor2 ----- Computer Associates - Editor ----- Name: FINIVP   Type: QUERY
                                                    More:      >
000100 QUERY DATABASE FINIVP
000200 REPORT PROFGRP IVPGRP
000300 END REPORT
000400 END QUERY

#V03** Validation is complete. No errors were detected.
Command ==>
F1 =Help      F3 =Exit      F5 =Rfind     F6 =Rchange   F7 =Backward F8 =Forward
F10=Left     F11=Right   F12=Cancel
```

Figure 4-72 Panel 5 — Full Screen Editor

Note the message ('#V03** Validation is complete. No errors were detected.') above the Command field. If this message does not appear, correct the query and repeat the Validate command.

From the Full Screen Editor, use the Exit command (PF3) to save the query and return to the Source Processing panel.

The Source Processing panel appears.

```
Source2 ----- Computer Associates - Source Processing -----
      Name      Type      Owner      Last Used      Name      Type      Owner      Last Used      More:      >
      FINIVP     QUERY     SYSTEM     07/09/02
      _____

TY01** Item FINIVP   type QUERY   has been saved.
Command ==>
F1 =Help      F7 =Backward F8 =Forward  F12=Cancel
```

Figure 4-73 Panel 6 — Source Processing Panel

The query has been saved and this panel re-appears with a save message ('TY01** ...'). The last used date reflects the current date.

Note that the Line Command area, the area to the left of the Name column, is initially empty.

Source2 ----- Computer Associates - Source Processing-----

	Name	Type	Owner	Last Used		Name	Type	Owner	Last Used
S	FINIVP	QUERY	SYSTEM	07/09/02					

More:

IY01** Item FINIVP type QUERY has been saved.
Command ==>
F1 =Help F7 =Backward F8 =Forward F12=Cancel

Figure 4-74 Panel 7 — Source Processing Panel (Submitting a Query)

To submit the query, enter an 's' next to the query name, FINIVP.
Press Enter to display the Submit panel.

The Submit panel appears.

Submit2			Computer Associates - Submit		
			Name: FINIVP Type: QUERY OwnerId: SYSTEM		
To Submit the query enter EXIT					
To leave the panel without submitting the query enter CANCEL					
Class	10	(Enter 1-14)			
Maximum number of roots	_____	(Enter 1-99999999)			
Maximum number of lines	_____	(Enter 1-9999)			
Route to batch printer?	_____	(Y)			
Format for logical terminal	_____	(Terminal Id)			
Generate query source with report	_____	(Y)			
Output Format	I	(1 - Standard Report 2 - HTML 3 - Tab Delimited 4 - Comma Delimited 5 - Plain Text)			
Override Query Output Format	-	(Y)			
Command ==>					
F1 =Help	F3 =Exit	F12=Cancel			

Figure 4-75 Panel 8 — Submit Panel

Your panel will look like Panel 8.

Submit2			Computer Associates - Submit		
			Name: FINIVP Type: QUERY OwnerId: SYSTEM		
To Submit the query enter EXIT					
To leave the panel without submitting the query enter CANCEL					
Class	10	(Enter 1-14)			
Maximum number of roots	_____	(Enter 1-99999999)			
Maximum number of lines	_____	(Enter 1-9999)			
Route to batch printer?	_____	(Y)			
Format for logical terminal	_____	(Terminal Id)			
Generate query source with report	_____	(Y)			
Output Format	I	(1 - Standard Report 2 - HTML 3 - Tab Delimited 4 - Comma Delimited 5 - Plain Text)			
Override Query Output Format	-	(Y)			
Command ==> <u>exit</u>					
F1 =Help	F3 =Exit	F12=Cancel			

Figure 4-76 Panel 9 — Submit Panel

To submit the query, enter 'Exit' in the Command area, as shown, and press Enter.
Alternatively, press PF3.

The Source Processing panel appears.

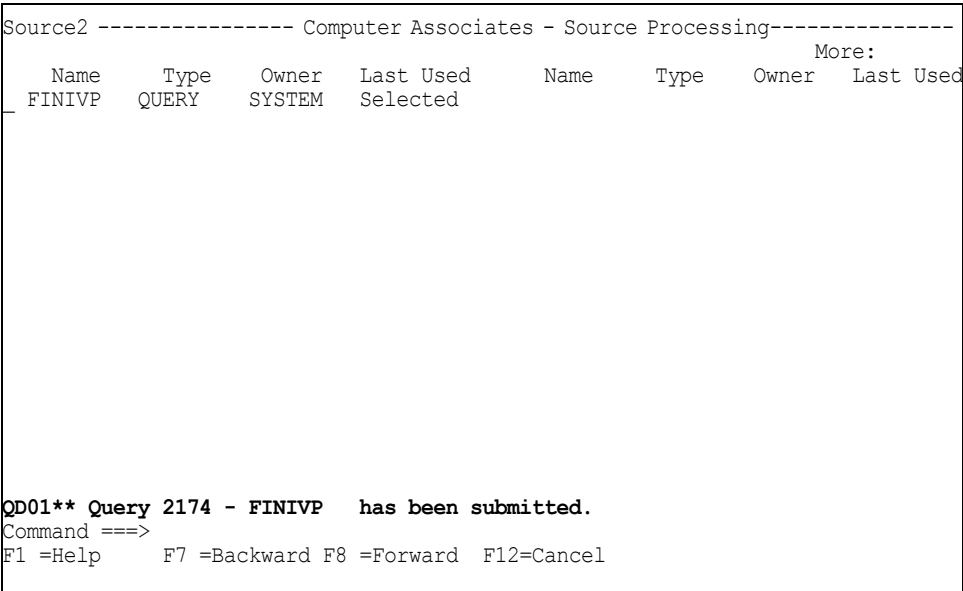


Figure 4-77 Panel 10 — Source Processing Panel

Note the submit confirmation message ('QD01** Query 2174 - FINIVP has been submitted.'). The query number on your panel will most likely differ from the one shown in Panel 10.

Use the Cancel command (PF12) to return to the Main Menu.

The Main Menu appears.

```

Menu2                                Computer Associates - Main Menu

6 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response    (Assisted Query Development)
6. Standard Query Processing         (Submit, Delete, Edit
                                   Queries and Stmtns)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel

```

Figure 4-78 Panel 11 — Main Menu

Your panel will look like Panel 11.

From the Main Menu, use Cancel (PF12) to return to the Logon panel.

The Logon panel appears.

```

Logon2                               Computer Associates - Logon

Welcome to VISION:Inform Release 4.0.

Please Enter Your User ID and Password:

User ID . . . . _____
Password . . . . _____ (if password protected)

+-----+
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+-----+

Command ==>
F1 =Help      F3 =Exit

```

Figure 4-79 Panel 12 — Logon Panel

Use the Exit command (PF3) to log off VISION:Inform.

When you log off, a message (“#800** Please press the CLEAR key to exit the session.”) appears.

```
Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
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                                     +-----+

#800** Please press the CLEAR key to exit the session.
Command ===>
F1 =Help      F3 =Exit
```

Figure 4-80 Panel 13 — Logon Panel

Follow the instructions in the message and press CLEAR.

This completes [Phase 6 — Creating a Query for 3270 Platforms](#). Skip Phase 7 and proceed to [Phase 8 — Viewing and Cleaning Up for 3270 Platforms on page 4-82](#).

Phase 7 — Creating a Query for Remote Platforms

Note: Remote platforms are VISION:Journey for DOS with VISION:Inform, and VISION:Journey for Windows with VISION:Inform. VISION:Bridge is the 3270 platform.

Phase 7 is for remote platforms only. If you are using a 3270 platform, use [Phase 6 — Creating a Query for 3270 Platforms on page 4-65](#).

In this phase, you enter a task or query from a remote platform. As there are a number of different platforms, the following instructions are generic. Refer to the remote platform manuals for specific instructions.

1. First, check the script used to log on to VISION:Inform. This might have changed. Make the required changes.
2. Log on to the platform and retrieve the glossary for FINIVP.
3. Define a task/query reporting the fields PROFGRP and IVPGRP.
4. Order the task or query FINIVP.
5. Deliver the data when the task/query complete.
6. Disconnect the remote platform.

The remaining steps are contained in this section with each panel accompanied by instructions.

At this time, go to the host, log on to CICS, and follow the panels in this phase. When you have completed this phase you will be done with the IVP.

Verify that the Background Processor is still running. If not, restart the Background Processor by re-submitting IVPOS in the INFORM.JCL library.

If you are a VISION:Bridge user, do not terminate the Batch Processor and proceed to [Phase 8 — Viewing and Cleaning Up for 3270 Platforms on page 4-82](#).

After entering the VISION:Inform transaction ID, the Logon panel appears.

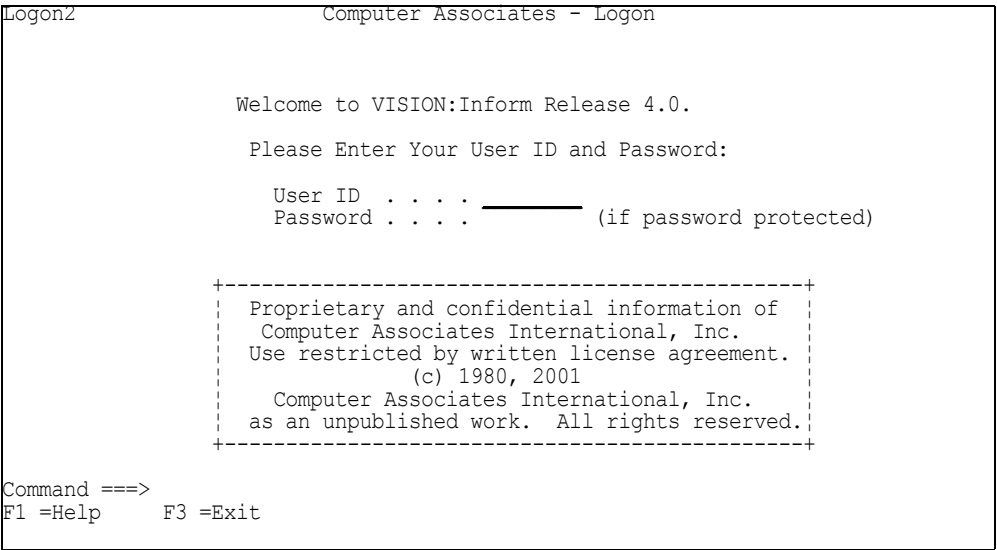


Figure 4-81 Panel 1 — Logon Panel

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

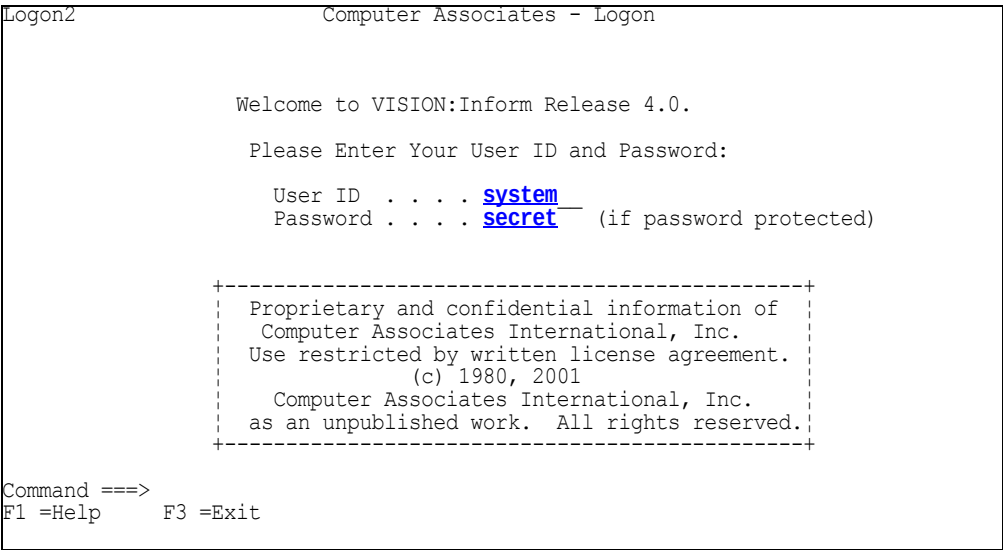


Figure 4-82 Panel 2 — Logon Panel with User ID and Password

Enter 'system' and 'secret' (or your own password) as shown. The password does not display as you type it.

Press Enter to display the Main Menu.

The Main Menu appears.

```
Menu2                                Computer Associates - Main Menu
_ Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                       Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-83 Panel 3 — Main Menu

```
Menu2                                Computer Associates - Main Menu
1 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                       Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-84 Panel 4 —Main Menu with Option 1 Selected

To select Operation Facilities, enter a '1' preceding the word Enter, as shown.

Press Enter to display the next panel, the Command Input panel.

The Command Input panel appears, as show in the Panel 5.

A screenshot of a command input panel. It features a large rectangular area with a vertical line of tick marks on the left side. At the top left corner, there is a prompt consisting of a question mark followed by a colon (?:).

Figure 4-85 Panel 5 — Command Input Panel

Initially, the panel is empty.

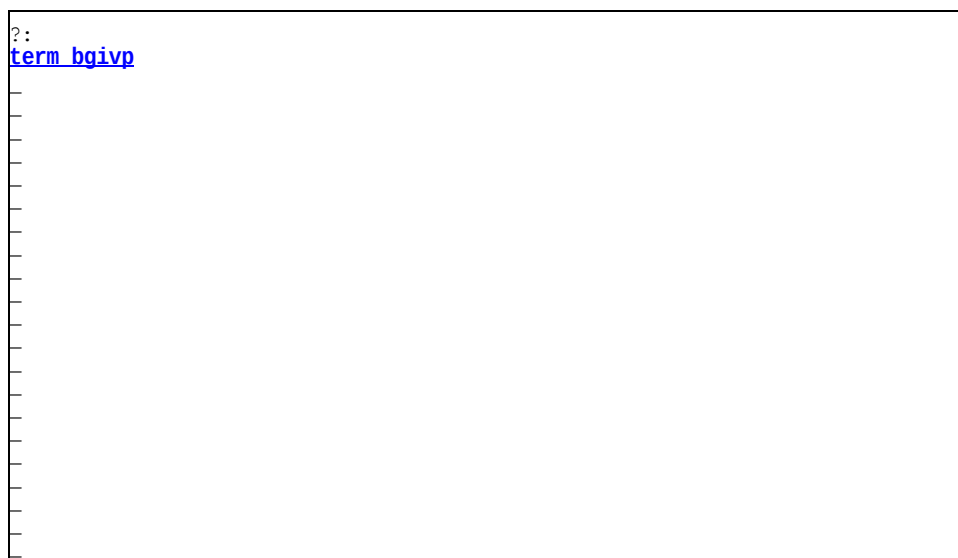
A screenshot of the same command input panel as in Figure 4-85, but now it contains the text 'term bgivp' in blue, underlined font. The text is positioned just below the '?' prompt. The rest of the panel, including the tick marks on the left, remains the same.

Figure 4-86 Panel 6 — Command Input Panel with TERMINATE Command (term bgivp)

In the Command Input panel, after the ?: prompt, enter 'term bgivp', as shown. This command terminates the Background Processor.

Press Enter.

The message ('TM01** BACKGROUND PROCESSOR BGIVP WILL TERMINATE.') displays, as shown in Panel 7.

```
?:  
term bgivp  
TM01** BACKGROUND PROCESSOR BGIVP    WILL TERMINATE.  
?:  
—
```

Figure 4-87 Panel 7 — Command Input with Terminate Message

```
?:  
term bgivp  
TM01** BACKGROUND PROCESSOR BGIVP    WILL TERMINATE.  
?:  
quit
```

Figure 4-88 Panel 8 — Command Input with Quit Command

In the Command Input panel, enter 'quit' after the ?: prompt.

Press Enter to return to the Main Menu.

The Main Menu appears, as shown in Panel 9.

```
Menu2                                Computer Associates - Main Menu

1 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:

1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:

4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                       Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-89 Panel 9 — Main Menu Panel After Terminating the Background Processor

From the Main Menu, use the Cancel command (PF12) to return to the Logon panel.

The Logon panel appears.

```
Logon2                                Computer Associates - Logon

Welcome to VISION:Inform Release 4.0.

Please Enter Your User ID and Password:

User ID . . . . 
Password . . . . (if password protected)

+-----+
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+-----+

Command ==> exit
F1 =Help      F3 =Exit
```

Figure 4-90 Panel 10 — Logon Panel

Enter 'exit' in the Command area and press Enter, or press PF3.

The Logon panel displays a message.

```
Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
                                     | Proprietary and confidential information of |
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                                     +-----+

#800** Please press the CLEAR key to exit the session.
Command ==>
F1 =Help    F3 =Exit
```

Figure 4-91 Panel 11 — Logon Panel with Exit Message

When you receive the #800 message, press CLEAR to display to a CICS screen.

Phase 8 — Viewing and Cleaning Up for 3270 Platforms

Note: Remote (or client) platforms are VISION:Journey for DOS with VISION:Inform, and VISION:Journey for Windows with VISION:Inform.

VISION:Bridge is the 3270 platform.

This phase is for 3270 platforms. If you are accessing VISION:Inform by means of a remote platform, skip this section.

In this phase:

- View and purge the report created in previous phases.
- Check the status of the Background Processor.
- Terminate the Background Processor.
- Delete the IVP query source.

At the end of this phase, the Installation Verification Process is complete.

To begin, log onto CICS and enter the VISION:Inform transaction code to display the Logon panel. The transaction code delivered with the product is INFP.

The Logon panel appears.

```

Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
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                                     +-----+

Command ==>
F1 =Help    F3 =Exit

```

Figure 4-92 Panel 1 — Logon Panel

Note: Bold, underlined text areas indicate user input. (When read online using the Acrobat Reader, user input is blue.)

```

Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . system
                                     Password . . . . secret (if password protected)

                                     +-----+
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                                     +-----+

Command ==>
F1 =Help    F3 =Exit

```

Figure 4-93 Panel 2 — Logon Panel with User ID and Password

Enter 'system' and 'secret' (or your own password) as shown. The password does not display as you type it.

Press Enter to display the next panel, which is the Main Menu.

The Main Menu appears.

```
Menu2                                Computer Associates - Main Menu
_ Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                      Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-94 Panel 3 — Main Menu

```
Menu2                                Computer Associates - Main Menu
1 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)

VISION:Bridge Options:
4. Quick Query                       (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                      Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-95 Panel 4 — Main Menu with Operation Facilities Selected

Enter '1' in the field to the left of the word Enter, as shown.

Press Enter to display the next panel, the Command Input panel.

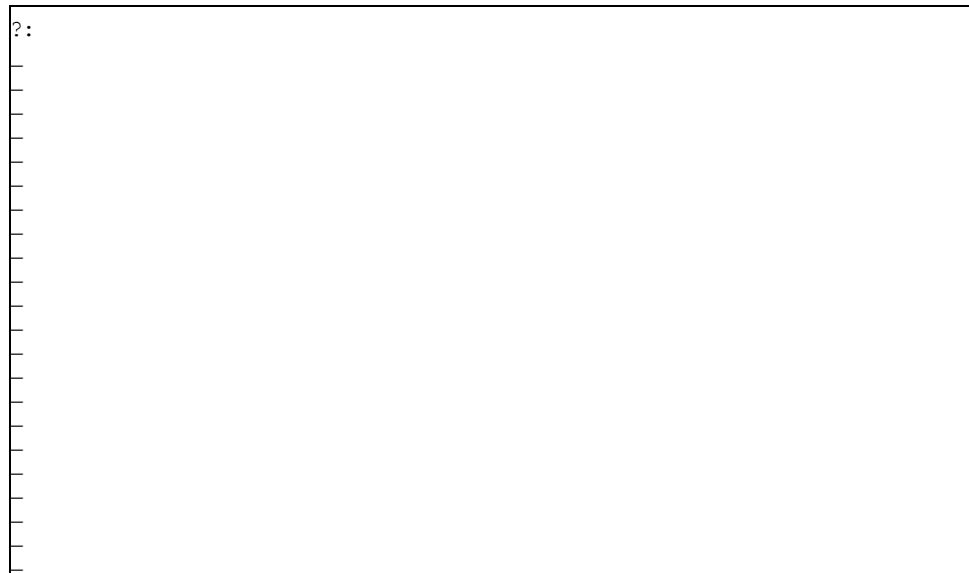


Figure 4-96 Panel 5 — Command Input Panel Showing Prompt

The Command Input panel appears and the ? : prompt displays, as shown in Panel 5.

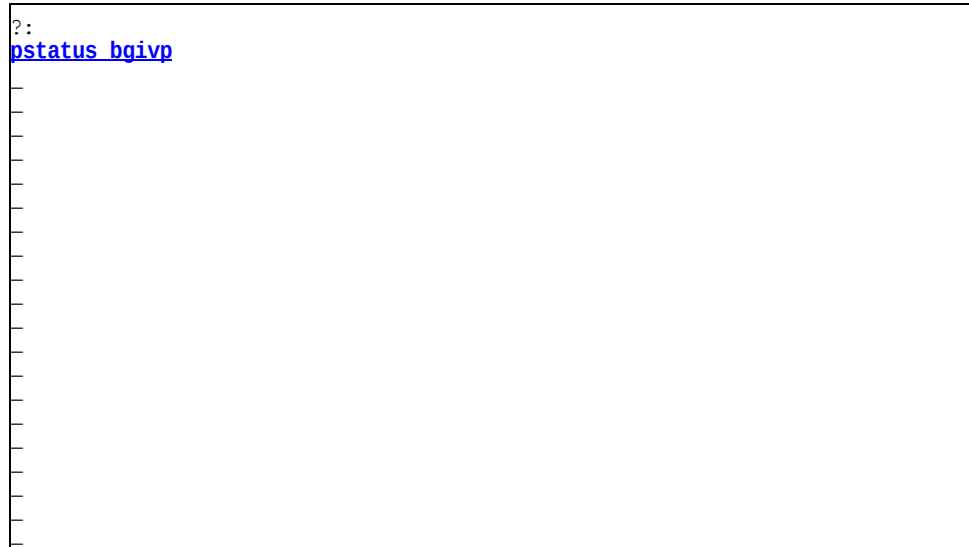
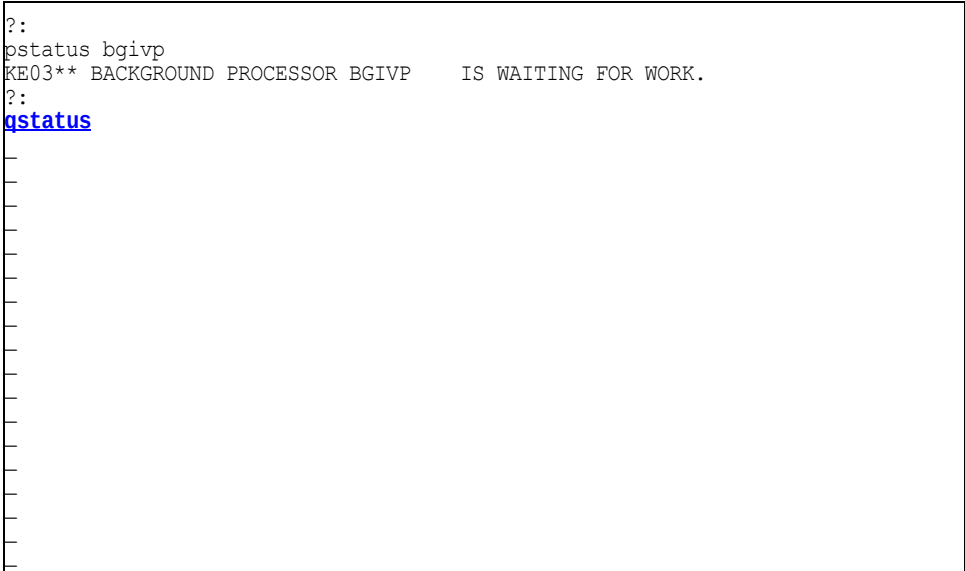


Figure 4-97 Panel 6 — Command Input with PSTATUS Command

To request the status of the bgivp Background Processor, enter 'pstatus bgivp', as shown.

Press Enter.

The processor status (pstatus) message is followed by the ?: prompt.



```
?:
pstatus bgivp
KE03** BACKGROUND PROCESSOR BGIVP    IS WAITING FOR WORK.
?:
qstatus

```

Figure 4-99 Panel 8 — Command Input Showing QSTATUS Command

Enter 'qstatus' on the next line after the ?: prompt.

Press Enter.

Note: The panel you see will be similar to Panel 9. The query number, destination, and class could be different than what is in Panel 9.

A panel, similar to the following, appears.

QUERY #	NAME	STATUS	DEST.	PAGES	DATAVIEW	CLASS	USERID
2174	FINIVP	READY	\$000	2	FINIVP	10	
?:							

Figure 4-100 Panel 9 — Qstatus Panel

Panel 9 shows the status of the query submitted in Phase 4.

- It is a status of READY which indicates it is ready to view.
- If the status is AWAITING or ACTIVE, re-key 'qstatus' until the query processes and is READY. If it does not process, a problem could exist and you should contact Computer Associates Technical Support.

QUERY #	NAME	STATUS	DEST.	PAGES	DATAVIEW	CLASS	USERID
2174	FINIVP	READY	\$000	2	FINIVP	10	
?:							
view finivp							

Figure 4-101 Panel 10 — Qstatus Panel with VIEW Command

Enter 'view finivp' to view the report output. The command, 'view finivp' is shown in blue in Panel 10.

Press Enter to display the report in the View panel.

However, you could get a ?: prompt instead a report. If so, just press Enter to display the View panel. This anomaly is the result of BMS page scheduling.

Panel 11 shows the View panel.

```
**OUTPUT FOR USER SYSTEM **
**ID                               **
**QUERY 2174-FINIVP , CLASS 10**
**REPORT NO. 1, PAGE COUNT      2**
**AGAINST DATABASE FINIVP **
**PROCESSED 07/09/02      AT 13:42:55**

P/N
```

Figure 4-102 Panel 11 — View Panel

The View command displays the report header. Note the BMS page controls, the P/N, shown in the lower left corner. Press Enter to display the next page of the panel.

JUL 09, 2002		PAGE 1
PROFIT GROUP	PROFIT GROUP	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
P/1		

Figure 4-103 Panel 12 — View Panel

Panel 12 shows the body of the report. The IVP query does not have a big report, so it fits on one page.

JUL 09, 2002		PAGE 1
PROFIT GROUP	PROFIT GROUP	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
10	10	
t/c		

Figure 4-104 Panel 13 — Terminate Paging in the View Panel

To terminate the BMS paging, change the BMS controls to 't/c' and press Enter.

You could use something other than t/c. This is determined by how your BMS page controls are set, that is, how they are defined to CICS and to VISION:Inform in the PARMBLK PARMS macro.

The Command Input panel appears, as shown in Panel 14.

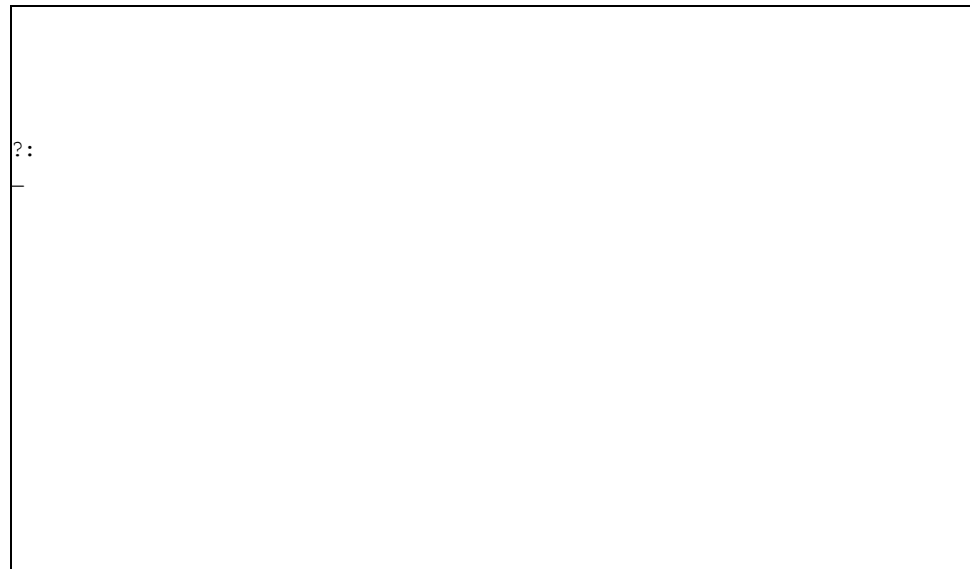


Figure 4-105 Panel 14 — Command Input Panel After Terminating the Report Display

If you see a flash of a BMS message, ignore it. The message says it is purging the queue.



Figure 4-106 Panel 15 — Command Input Panel with PURGE Command

Enter 'purge finivp' as shown.

Press Enter to purge the report. When purge completes, messages appear.

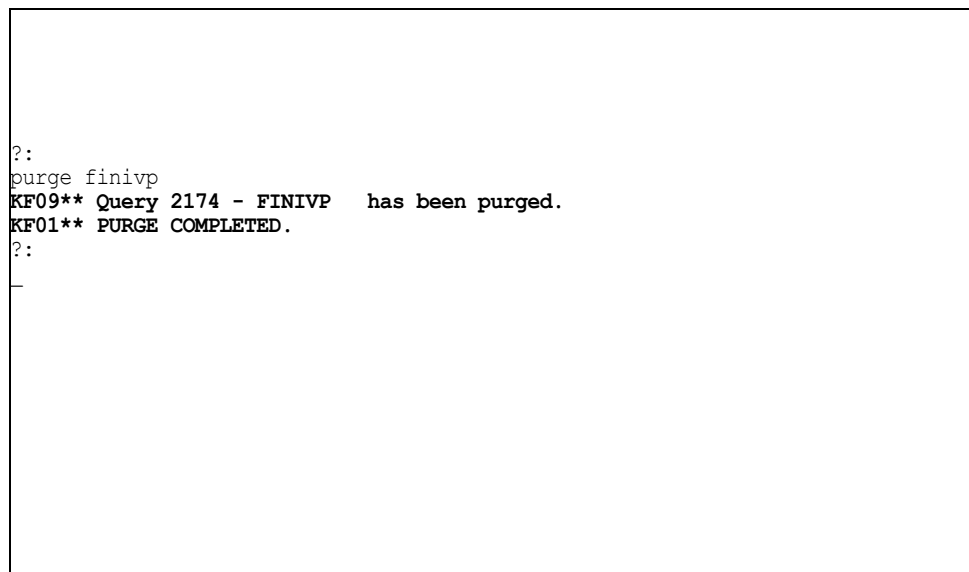


Figure 4-107 Panel 16 — Command Input Panel with Purge Messages

The query number in the KF09 message will not exactly match the number in your message.

```
?:  
purge finivp  
KF09** Query 2174 - FINIVP   has been purged.  
KF01** PURGE COMPLETED.  
?:  
term bgivp
```

Figure 4-108 Panel 17 — Command Input Panel with the Terminate Background Processor Command

Enter 'term bgivp' as shown to terminate the Background Processor. Press Enter.

```
?:  
purge finivp  
KF09** Query 2174 - FINIVP   has been purged.  
KF01** PURGE COMPLETED.  
?:  
term bgivp  
TM01** BACKGROUND PROCESSOR BGIVP   WILL TERMINATE.  
?:  
—
```

Figure 4-109 Panel 18 — Command Input Panel with Terminate Background Processor Message

The TM01 message appears.

```
?:
purge finivp
KF09** Query 2174 - FINIVP   has been purged.
KF01** PURGE COMPLETED.
?:
term bgivp
TM01** BACKGROUND PROCESSOR BGIVP   WILL TERMINATE.
?:
quit
```

Figure 4-110 Panel 19 — Command Input with QUIT Command

To return to the Main Menu, enter 'quit' and press Enter.

The Main Menu appears.

```
Menu2                      Computer Associates - Main Menu

6 Enter one of the following VISION:Inform or VISION:Bridge Options:

VISION:Inform Options:
1. Operation Facilities           (Background Processor Status)
2. Administration Facilities      (Profile Development)
3. Report Facilities              (Report Handling)

VISION:Bridge Options:
4. Quick Query                   (Assisted Query Development)
5. Quick Query Immediate Response (Assisted Query Development)
6. Standard Query Processing      (Submit, Delete, Edit
                                   Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)

Command ==>
F1 =Help      F12=Cancel
```

Figure 4-111 Panel 20 — Main Menu After Standard Query Processing

Enter a '6' for Standard Query Processing, as shown in Panel 20.

Press Enter.

The Source Processing panel appears.

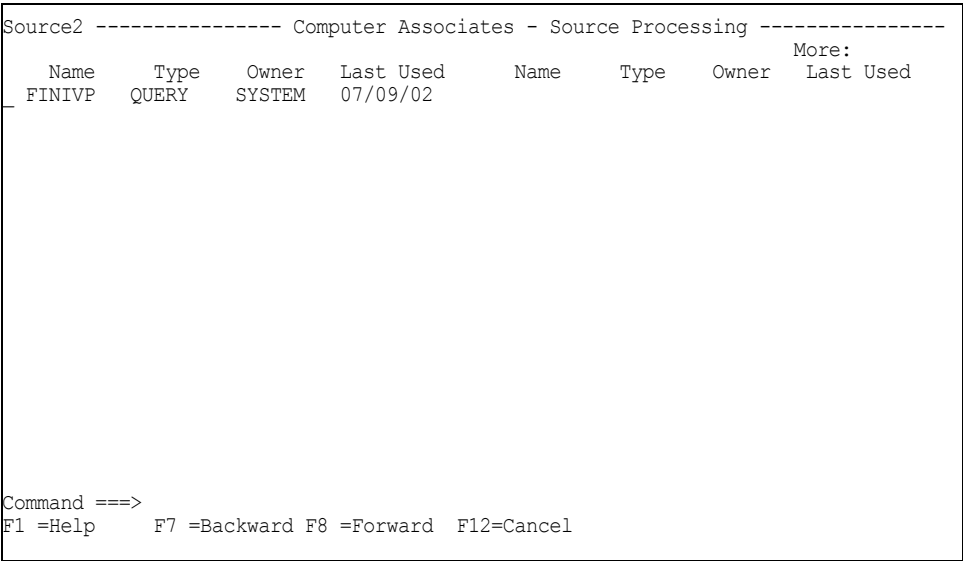


Figure 4-112 Panel 21 — Source Processing Panel

The date in the display is the date you created your query. Use the Source Processing panel to delete query source.

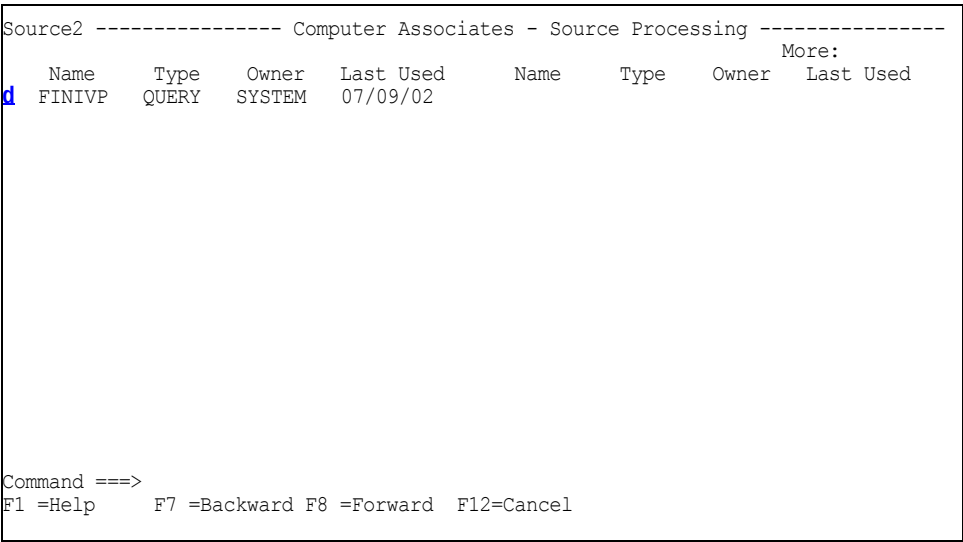


Figure 4-113 Panel 22 — Source Processing Panel with Query Delete Command

To delete the query source, enter 'd' as shown next to query FINIVP.
Press Enter.

The panel re-displays.

```
Source2 ----- Computer Associates - Source Processing -----
      Name      Type      Owner      Last Used      Name      Type      Owner      Last Used
? FINIVP      QUERY      SYSTEM      07/09/02

#W00** To confirm DELETE re-enter the "D", otherwise no delete will occur.
Command ==>
F1 =Help      F7 =Backward F8 =Forward  F12=Cancel
```

Figure 4-114 Panel 23 — Source Processing Panel with Query Delete Message

When the #W00 message ('#W00** To confirm DELETE re-enter the "D", otherwise no delete will occur.') appears, enter a second 'd' over the '?' to confirm the delete.

Press Enter.

```
Source2 ----- Computer Associates - Source Processing -----
      Name      Type      Owner      Last Used      Name      Type      Owner      Last Used
d FINIVP      QUERY      SYSTEM      07/09/02

#W00** To confirm DELETE re-enter the "D", otherwise no delete will occur.
Command ==>
F1 =Help      F7 =Backward F8 =Forward  F12=Cancel
```

Figure 4-115 Panel 24 — Source Processing Panel with Confirm Delete Command

Enter a 'd' as shown.

Press Enter.

```
Source2 ----- Computer Associates - Source Processing-----
      Name      Type      Owner      Last Used      Name      Type      Owner      More:
      FINIVP                                     Deleted      Last Used
-----

```

Command ==>

F1 =Help F7 =Backward F8 =Forward F12=Cancel

From the Source Processing panel, use the Cancel command (PF12) to return to the Main Menu.

```
Menu2                                Computer Associates - Main Menu

6 Enter one of the following VISION:Inform or VISION:Bridge Options:


VISION:Inform Options:

1. Operation Facilities                (Background Processor Status)
2. Administration Facilities          (Profile Development)
3. Report Facilities                  (Report Handling)


VISION:Bridge Options:

4. Quick Query                        (Assisted Query Development)
5. Quick Query Immediate Response     (Assisted Query Development)
6. Standard Query Processing          (Submit, Delete, Edit
                                       Queries and Stmts)
7. Immediate Response Query Processing (Run Queries and Immed Mode)


Command ==>
F1 =Help      F12=Cancel
```

The Logon panel appears.

```

Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
                                     | Proprietary and confidential information of |
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                                     | Use restricted by written license agreement.  |
                                     | (c) 1980, 2001                             |
                                     | Computer Associates International, Inc.      |
                                     | as an unpublished work. All rights reserved. |
                                     +-----+

Command ==>
F1 =Help    F3 =Exit

```

Figure 4-118 Panel 27 — Logon Panel After Query Deletion

Use the Exit command and press Enter, or press PF3 to exit.

```

Logon2                                Computer Associates - Logon

                                     Welcome to VISION:Inform Release 4.0.

                                     Please Enter Your User ID and Password:

                                     User ID . . . . _____
                                     Password . . . . _____ (if password protected)

                                     +-----+
                                     | Proprietary and confidential information of |
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                                     | as an unpublished work. All rights reserved. |
                                     +-----+

#800** Please press the CLEAR key to exit the session.
Command ==>
F1 =Help    F3 =Exit

```

Figure 4-119 Panel 28 — Logon Panel

When you receive the #800 message, press CLEAR to display a CICS screen.

This completes the IVP.

Modifying VISION:Inform

Use the information in this chapter to modify your VISION:Inform system after you complete installation and customization, and the system is ready for production.

The four categories of modifications are:

- Modifications made by changing the PARMBLK parameter module.
- Modifications made by changing the M4PARAMS parameter module.
- Increasing the size of the VISION:Inform foreground library and the communication file.
- Configuration of your VISION:Inform system for multiple concurrent update access to the foreground library.

Modifying the PARMBLK Parameter Module

The PARMBLK source member contains data in both uppercase and lowercase letters, as shown in [Figure 5-1](#).

- Enter parameters for the PARMS, QFILE, and LTERM macros, as well as the COMMAND positional subparameters of the CUSTOM macro in uppercase.
- You can use mixed case for the function key positional subparameter of the CUSTOM macro.

```
PARMBLK  TITLE 'VISION:Inform CICS/MVS PARMBLK SOURCE'          00010001
*                                                00020000
* THIS IS THE DEFAULT INSTALLATION PARAMETER SPECIFICATION    00030000
*                                                00040000
      PARMS ,                                                *00050000
      PSBNAME=INFPSB,      INQUIRY DEFAULT PSB NAME          *00060000
      MAXPAGE=99,          MAX PAGES RETURNED TO COMFILE      *00070000
      MCRPAGE=99,          COMFILE MAXPAGES FOR REMOTE CLIENT  *00080000
      TSSIZE=4096,         TEMP STORAGE SIZE                  *00090000
      IATRAN=INFN,         REMOTE CLIENT INTERACTIVE TRANCODE  *00100000
      BKLRECL=4276,        BACKUP/RESTORE RECORD LENGTH       *00110000
      MAXQRY=10,           MAX QUERIES TO BE BATCHED          *00120000
```

Figure 5-1 PARMBLK Source Module (Page 1 of 3)

```

MINQRY=1,          MIN QUERIES TO BE BATCHED          *00130000
DEFCLAS=10,        DEFAULT CLASS OF SUBMITTED QUERIES *00140000
ERROPT=CONT,       BACKGROUND PROCESSOR ERROR OPTION  *00150000
ENQNAME=INFENQUE,  MAJOR ENQ NAME                     *00160000
INVSUM=YES,        INVALID SUMMARY FLAG               *00170000
LEVRPT=NO,         OVERFLOWING REPORTS STAY ON COMFILE *00180000
SORTLIM=0,         DEFAULT ONLINE SORT LIMIT 0=NO LIMIT*00190000
SORTSIZ=62000,     INQUIRY BATCH SORT AREA SIZE       *00200000
DEFLTRM=NO,        USE FIRST LTERM AS DEFAULT?        *00210000
DBCSSO=,           DBCS SHIFT OUT CHARACTER          *00220000
DBCSSI=,           DBCS SHIFT IN CHARACTER           *00230000
OPTMODE=1,         FULL DATABASE ACCESS OPTIMIZATION  *00240000
PGRET=P/,         BMS PAGE RETRIEVAL CODE            *00250000
PGPURGE=T/,       BMS PAGE PURGE CODE                *00260000
BGPRINT=ALL,       ALL BG PROCESSORS PROCESS PRINT Q. *00270001
TMPSYNC=NO,        DO NOT ALLOW TEMP FIELD SYNCH.     *00280001
ENQWAIT=(20,20),   ONLINE, BATCH ENQ WAIT CONTROL    *00290001
RECONN=YES,        ONLINE SESSION RECONNECTION ACTIVE *00291003
PASSWDX=NO,        NO LOGON PASSWORD EXIT            *00292003
ENTRYTP=STANDARD,  PRODUCT ENTRY FROM TRAN CODE      *00300000
INFTRAN=,          PRODUCT TRANCODE IF XCTL ENTRY     *00310001
EXITTP=STANDARD,   PRODUCT EXITS TO CICS              *00320000
XCTLNAM=,          XCTL PROGRAM NAME IF XCTL EXITTYP  *00330000
FREESIZ=0          STATIC FREESIZE                   00340000
EJECT              00350000
QFILE LIB,         FOREGROUND LIBRARY                *00360000
ROOTBLK=0160,      NUMBER OF ROOT BLOCKS              *00370000
OVFLBLK=0224,      NUMBER OF OVERFLOW BLOCKS          *00380000
BLKSIZE=4088,      BLOCK SIZE                        *00390000
BKTLSIZE=1016      BUCKET SIZE                       00400000
EJECT              00410000
QFILE COM,         COMMUNICATION FILE                *00420000
ROOTBLK=0120,      NUMBER OF ROOT BLOCKS              *00430000
OVFLBLK=0288,      NUMBER OF OVERFLOW BLOCKS          *00440000
BLKSIZE=4088,      BLOCK SIZE                        *00450000
BKTLSIZE=1016      BUCKET SIZE                       00460000
EJECT              00470000
*                  00480000
* SAMPLE INVOCATION OF LTERM MACRO FOR USE WHEN ROUTING REPORTS. IF 00490000
* THIS FEATURE IS USED, REMOVE THE ASTERISK ON COLUMN 1 AND ADD    00500000
* CONTINUATION CHARACTER IN COL 72 AS NECESSARY, SPECIFYING      00510000
* APPROPRIATE VALUES FOR LTERM OPERANDS AS NEEDED.              00520000
*                  00530000
*                  00540000
*                  00550000
* LTERM NAME=USERNAME, NAME USED IN PRODUCT              00560000
* TERMID=TRM1,        CICS DEVICE NAME                  00570000
* TYPE=32702          DEVICE TYPE (3270 MOD 2)           00580000
*                  00590000
* LTERM NAME=PRINTER1, NAME USED IN PRODUCT              00600000
* TERMID=PRT1,        CICS DEVICE NAME                  00610000
* TYPE=UPRINT,        USER ONLINE PRINTER              00620000
* HEIGHT=11,          DEVICE PAGE HEIGHT               00630000
* WIDTH=131,          DEVICE PAGE WIDTH                00640000
*                  00650000
* LTERM NAME=PRINTER2, NAME USED IN PRODUCT              00660000
* TERMID=PRT2,        CICS DEVICE NAME                  00670000
* TYPE=SCS,           USER ONLINE SCS PRINTER          00680000
* HEIGHT=11,          DEVICE PAGE HEIGHT               00690000
* WIDTH=131,          DEVICE PAGE WIDTH                00700000
* NULLCHR=40          PAD CHARACTER                    00710000
EJECT              00720000
CUSTOM BKWD=('BACKWARD','Backward','F7'), BACKWARD SCROLL *00730000
CANCEL=('CANCEL','Cancel','F12'), SCREEN CANCEL        *00740000
CHANGE=('CHANGE','Change','0'), EDITOR TEXT CHANGE     *00750000
CLEAR=('CLEAR','Clear','0'), QQUERY CLEAR COMMAND*00760000
COPY=('COPY','Copy','0'), EDITOR EXTERNAL COPY*00770000
CREATE=('CREATE','Create','0'), EDITOR CREATE NEW      *00780000
EXIT=('EXIT','Exit','F3'), SCREEN EXIT                *00790000
FIELDS=('FIELDS','Fields','0'), EDITOR FIELDS CMD      *00791002

```

Figure 5-1 PARMBLK Source Module (Page 2 of 3)


```

FIND=('FIND','Find','0'),          EDITOR TEXT FIND      *00800000
FWD=('FORWARD','Forward','F8'),    FORWARD SCROLL       *00810000
HELP=('HELP','Help','F1'),         SCREEN HELP          *00820000
LEFT=('LEFT','Left','F10'),        LEFT SCROLL          *00830000
LOCATE=('LOCATE','Locate','0'),    EDITOR LINE # LOCATE *00840000
RCHANGE=('RCHANGE','Rchange','F6'), EDITOR REPEAT CHANGE *00850000
RENAME=('RENAME','Rename'),        QUICK QUERY RENAME   *00860000
RENUM=('RENUMBER','Renumber','0'), EDITOR RESEQUENCE     *00870000
RESET=('RESET','Reset','0'),        EDITOR LINECMD RESET *00880000
RFIND=('RFIND','Rfind','F5'),       EDITOR REPEAT FIND   *00890000
RIGHT=('RIGHT','Right','F11'),      RIGHT SCROLL         *00900000
SAVE=('SAVE','Save','0'),           ITEM SAVE IN FGLIB   *00910000
SUBMIT=('SUBMIT','Submit','0'),     SUBMIT ITEM          *00920000
VALID=('VALIDATE','Validate','0'),  EDITOR VALIDATE ITEM *00930000
VIEWLST=('DATAVIEW','Dataview','0'), EDITOR DATAVIEW CMD *00931002
ALL=ALL,                           CHANGE CMD OPERAND    *00940000
ASIS=ASIS                          SAVE CMD OPERAND     00950000
EJECT                               00960000
ENDPARMS                           00970000
*                                  00980000
END                                 00990000

```

Figure 5-1 PARMBLK Source Module (Page 3 of 3)

PARMBLK Macros

PARMBLK uses five macros, PARMS, QFILE, LTERM, CUSTOM, and ENDPARMS. The following is a brief description of the five macros:

PARMS	Use the PARMS macro (required) to begin the generation of the installation parameter module. It defines various options that can be tailored to your specifications.
QFILE	Use the QFILE macro (required) to define the foreground library and communication file.
LTERM	Use the LTERM macro (optional) to define online devices to which reports will be routed.
CUSTOM	Use the CUSTOM macro (required) to customize the 3270 Panel command area entries and function key labels, as well as to assign function keys to primary commands.
ENDPARMS	Use the ENDPARMS macro (required) to end the specification of the parameters and cause the PARMBLK module to be generated.

The sections which follow describe the parameters for each macro.

PARMBLK PARMS Macro Parameters

Note: In the statement syntax, the parameters are in alphabetical order, the default is underlined, and the continuation character is not shown.

The PARMS statement syntax is:

```
PARMS,      BGPRINT={ ALL | ONLY },
             BKLRECL={ 4276 | nnnn },
             DBCSSI=hh,
             DBCSSO=hh,
             DEFCLAS={ 10 | nn },
             DEFLTRM={ NO | YES },
             ENTRYTP={ STANDARD | XCTL | LINK },
             ENQNAME={ INFENQUE | enqname },
             ENQWAIT={ (20,20) | (online,batch) },
             ERROPT={ CONT | TERM },
             EXITYP={ STANDARD | XCTL | RETURN },
             FREESIZ={ 0 | nnnn },
             IATRAN={ INFN | tranid },
             INFTRAN=trancode,
             INVSUM={ YES | NO },
             LEVRPT={ NO | YES },
             MAXPAGE={ 99 | nnnnnnnn },
             MAXQRY={ 10 | nnn },
             MCRPAGE={ 99 | nnnnnnnn },
             MINQRY={ 1 | nnn },
             OPTMODE={ 1 | 2 | 3 },
             PASSWDX={ NO | YES },
             PGPURGE={ T | ppppppp },
             PGRET={ P | rrrrrrr },
             PSBNAME={ INFPSB | psbname },
             RECONN={ YES | NO },
             SORTLIM={ 0 | recmax },
             SORTSIZ={ 62000 | sortspac },
             TMPSYNC={ NO | YES },
             TSSIZE={ 4096 | nnnn },
             XCTLNAM={progrname}
```

The PARMS parameter descriptions are in alphabetical order.

BGPRINT	This parameter controls the processing of the communication file print queue by the Background Processors. Acceptable values are ALL or ONLY. ■ Specifying ONLY indicates that only the single Background Processor with PRINT specified on the CONTROL statement can process the print queue. ■ Specifying ALL indicates that any and all Background Processors can process the print queue. ■ The default is ALL.
BKLRECL	This is the block size of the backup/restore data sets (used with the library or communication file utilities). ■ The default is 4276. ■ Specify a value equal to or greater than 2048.

DBCSSI	This is the Double Byte Character Set Shift In character. It can be a character representation of a single hexadecimal character only. Enter this parameter only if your system supports DBCS. If you use this parameter, you must also use the DBCSSO parameter.						
DBCSSO	This is the Double Byte Character Set Shift Out character. It can be a character representation of a single hexadecimal character only. Enter this parameter only if your system supports DBCS. If you use this parameter, you must also use the DBCSSI parameter.						
DEFCLAS	This is the default class for all submitted queries or tasks, if you do not specify a class during the submit process or in the user profile. ■ Specify a value from 1 to 14. ■ The default is class 10.						
DEFLTRM	Use this parameter to supply default LTERM device information if no LTERM definition exists in PARMBLK for a specified device name. ■ YES tells the system to use the first LTERM specification in PARMBLK to obtain default device information when no match is found. ■ The default NO indicates there is no default device.						
ENTRYTP	This parameter specifies the method of starting the VISION:Inform default transaction (INFP) under CICS. Acceptable values are STANDARD, XCTL, or LINK. <table><tr><td>STANDARD</td><td>Invoke the transaction by the entry of the transaction code at a terminal.</td></tr><tr><td>XCTL</td><td>Invoke the transaction by another CICS program by means of the CICS XCTL function.</td></tr><tr><td>LINK</td><td>Invoke the transaction by another CICS program by means of the CICS LINK function.</td></tr></table> The default is STANDARD. ■ If you use STANDARD, do not specify the INFTRAN parameter. ■ If you use XCTL or LINK, you must specify the INFTRAN parameter.	STANDARD	Invoke the transaction by the entry of the transaction code at a terminal.	XCTL	Invoke the transaction by another CICS program by means of the CICS XCTL function.	LINK	Invoke the transaction by another CICS program by means of the CICS LINK function.
STANDARD	Invoke the transaction by the entry of the transaction code at a terminal.						
XCTL	Invoke the transaction by another CICS program by means of the CICS XCTL function.						
LINK	Invoke the transaction by another CICS program by means of the CICS LINK function.						
ENQNAME	This parameter specifies the major ENQ name for the ENQ/DEQ process used by VISION:Inform. The default name is INFENQUE.						

ENQWAIT	Use this parameter to customize the amount of time spent waiting during times of resource contention between online and batch access to the foreground library and communication file. ■ The values are specified as (online,batch). ■ For ENQWAIT=(online,batch), specify values from (1,1) to (2400,720). ■ The default specification is ENQWAIT=(20,20). The default specifies 20 online waits (at 3-second intervals) and 20 batch waits (at 10-second intervals) that will occur before a 3521 (time-out) termination occurs.
ERROPT	This parameter controls the operation of the Background Processor when errors occur during startup processing. The options are TERM or CONT. ■ TERM causes the Background Processor to terminate on any startup error. ■ CONT causes the Background Processor to continue operation even though startup errors do occur. ■ The default is CONT.
EXITTYP	This parameter specifies the type of return VISION:Inform makes when the online session terminates. Acceptable values are STANDARD, XCTL, or RETURN. The default is STANDARD. STANDARD VISION:Inform exits by means of BMS with the session termination message. XCTL VISION:Inform returns by means of the CICS XCTL function to a program whose name is supplied in the XCTLNAM parameter. RETURN VISION:Inform returns to CICS by means of the CICS RETURN function.
FREESIZ	This specifies the static freesize value for the Background Processor (in K increments). ■ Specify a whole number between 0 and 1024. ■ The default, which is normally sufficient, is 0.

IATRAN	This is the transaction identifier for remote client software products (except VISION:Journey for Windows Release 2.0 and later, and VISION:Journey for DOS Release 3.0). This is the pseudo conversational transaction for these products. ■ Match this value to that specified in the DFHCSDUP or DFHCSD2 job used to add the VISION:Inform resource definition entries to the CICS resource definition file. ■ The default is INFN.
INFTRAN	This is the VISION:Inform transaction code. Specify this parameter only if the ENTRYTP is XCTL or LINK. INFTRAN specifies the transaction code used to display the VISION:Inform Logon panel. ■ Make this entry from 1 to 4 characters in length. ■ This value, if specified, must correspond to that specified in the DFHCSDUP or DFHCSD2 job used to add the VISION:Inform resource definition entries to the CICS resource definition file. ■ There is no default value.
INVSUM	Use this parameter to specify whether or not summarized fields which contain instances of invalid data are to be flagged with a question mark (?). Acceptable values for this parameter are YES or NO. ■ YES indicates that these fields are to be flagged. ■ NO turns the flagging off. ■ The default is YES.
LEVRPT	This parameter tells VISION:Inform whether reports which exceed the MAXPAGE value should remain on the communication file up to the MAXPAGE value, or be deleted. Acceptable values are YES or NO. ■ YES indicates these partial reports are to remain on the communication file. ■ NO indicates that the partial reports are to be deleted. In either case, the entire report is directed to the system printer. ■ The default is NO.

MAXPAGE	This specifies the maximum number of report pages that can be written to the communication file for online viewing by a query submitted by VISION:Bridge or the Batch Simulator. When this amount is exceeded, the entire report is re-directed to the INFREPT data set as specified in the Background Processor JCL. ■ Specify a value from 0 to 99999999. ■ Specifying 0 indicates that there is no MAXPAGE limit. ■ The default is 99.
MAXQRY	MAXQRY specifies the maximum number of queries or tasks to be batched together for processing in a single pass of the file or database by the Background Processor. ■ Specify a value between 1 and 255. ■ Make MAXQRY equal to or greater than the MINQRY value. ■ The default is 10.
MCRPAGE	MCRPAG specifies the maximum number of pages of data which can be written to the communication file for any task submitted by any client software product except VISION:Bridge or the Batch Simulator. When this amount is exceeded, the part of the data already on the communication file is left on the file, and a copy of the output is written to the INFREPT data set as specified in the Background Processor JCL. ■ Specify a value from 0 to 99999999. ■ Specifying 0 indicates that there is no MCRPAGE limit. ■ The default is 99.
MINQRY	MINQRY specifies the minimum number of queries or tasks to be batched together for processing in a single pass of the file or database by the Background Processor. No queries or tasks will be processed against a file or database until this number is available. ■ Specify a value between 1 and 255. ■ Make MINQRY equal to or less than MAXQRY. ■ The default is 1.

OPTMODE	OPTMODE specifies the database access optimization method to be used by VISION:Inform. Valid entries are 1, 2, or 3. The OPTMODE values are defined as follows: ■ 1 — Full optimization at all database levels (dynamic tuning). ■ 2 — Optimization at the root level only (dynamic tuning). ■ 3 — No optimization (static tuning). The default is 1. See the VISION:Inform System Administrator Guide for further details.
PASSWDX	PASSWDX specifies whether (YES) or not (NO) to activate the password processing entry to the user Profile Exit routine. The standard Profile Exit routine processing will not include a Password processing entry unless PASSWDX is specified as YES. The default value is NO. Specifying YES allows you to provide a Profile Exit routine that can interface to your security system (e.g., ACF2, RACF, Top Secret) for password validation. See Profile Exit Routines on page B-1 for more information.
PGPURGE	This specifies the BMS page purge code as defined in the CICS System Initialization Table. ■ Make the entry from 1 to 7 characters in length. ■ The VISION:Inform default value is T/.
PGRET	This specifies the BMS page retrieval code as defined in the CICS System Initialization Table. ■ Make the entry from 1 to 7 characters in length. ■ The VISION:Inform default value is P/.
PSBNAME	This specifies the default PSB in the Immediate Response mode for queries to be run against DL/I databases. If a PSB is specified in a user's profile for a particular database, that PSB will be used instead of this PSB. ■ Specify a value from 1 to 8 characters in length. ■ The default PSB name is INFPSB.
RECONN	The RECONN keyword specifies whether VISION:Inform will attempt to re-establish a disconnected session at the point of disconnection (YES), or at the LOGON Panel (NO). The default is YES.

SORTLIM	This is the maximum number of records that can be sorted in an online sort by the Immediate Response mode processor. A message is issued if this limit is exceeded by a user's query. The default value is 0, which indicates there is no limit. In practice, however, the record limit is the size of the available sort space (see Note below) divided by the size of the sort record. Note: This value is used only in the online version of Immediate Response. It is not used in batch versions (Batch Simulator). In the online version of Immediate Repsonse, VISION:Inform itself performs the sorts, in-core. The amount of storage available for online sorts is 512K. Queries with large amounts of data or records to be sorted may not run successfully in the online region, and should be run in batch.
SORTSIZ	This is the amount of space, in bytes, to be used for sort space by the batch version (Batch Simulator) of Immediate Response. The default is 62000 bytes. You can make the value higher or lower. Note: This value is used only in batch (Batch Simulator) with Immediate Response. It is not used by the online version of Immediate Response. In the batch version of Immediate Response, sorts are performed by interfacing with your shop's IBM or IBM-compatible SORT program, and the SORTSIZ parameter is used to set the sort space for the SORT program. Queries with large amounts of data or records to be sorted may not run successfully in the online region, and should be run in batch.
TMPSYNC	This parameter specifies whether or not queries against logical data views that use a temporary field for coordination can be built. Acceptable values are YES or NO. ■ NO indicates that they cannot. ■ The default value is NO. ■ YES indicates that such queries can be built. If YES is specified, note the following: Logical data view (LDV) coordination utilizing a temporary field as the coordinating key differs from coordination to a field in another file in both implementation and use. – To implement, define the temporary field in a PROCEDURE. – Include PROCEDURE as a component of the LDV. Note that a T will be entered under 'File' entry preceding the temporary field name on the LDVFILES panel.

- Promote the PROCEDURE and LDV with the Definition Processor. The PROCEDURE is automatically invoked when the LDV is referenced.
- Use differs from coordination to database fields, in that the PROCEDURE is processed before any statements in the user queries. The temporary field will be built and coordination will take place just once for each master file record. There is never any looping when temporary fields are used for coordination with VISION:Inform.

Refer to the VISION:Inform Definition Processor Reference Guide.

TSSIZE	Use this parameter to specify the size of the external CICS temporary storage record. The default is 4096.
XCTLNAM	This is the program name to receive control by means of the CICS XCTL function if EXITTYP=XCTL. ■ If you use XCTLNAM, make this entry from 1 to 8 characters in length. ■ There is no default value.

PARMBLK QFILE Macro Parameters

Note: In the statement syntax, the parameters are in alphabetical order, the default is underlined, OVFLBLK defaults to 224 for LIB and 288 for COM, and ROOTBLK defaults to 160 for LIB and 120 for COM.

The QFILE statement syntax is:

QFILE	LIB,	QFILE	COM,
	BLKSIZE={ <u>4088</u> nnnn },		BLKSIZE={ <u>4088</u> nnnn },
	BKTSIZE={ <u>1016</u> nnnn },		BKTSIZE={ <u>1016</u> nnnn },
	OVFLBLK={ <u>0224</u> nnn },		OVFLBLK={ <u>0288</u> nnn },
	ROOTBLK={ <u>0160</u> nnn }		ROOTBLK={ <u>0120</u> nnn }

The QFILE parameters are:

LIB or COM	The first parameter in the QFILE specification for a file is positional, and must be the file indicator, either LIB or COM. ■ Use LIB to define foreground library parameters. ■ Use COM to specify communication file parameters.

BLKSIZE	This is the block size or control interval size for the file. ■ The default value is 4088. ■ Make this value less than or equal to 32,768. ■ You can specify another size to better fit a particular disk device or to improve performance by placing more data into a block. ■ Be careful to match the changed value with the record size in the VSAM cluster definition. ■ Make the control interval size at least 8 bytes greater than the record size and the control interval size a multiple of 512. ■ Make the buffer size in the cluster definition twice the CFSIZE. Make the CICS temporary storage CFSIZE at least as large as the LIB CFSIZE if LOG=YES is specified in the CICS File Resource Definition entry for the foreground library.
BKTSIZE	This entry specifies the maximum space an item can occupy in the root addressable area of the file. ■ Make this entry less than the value of BLKSIZE-20. ■ Make this entry a multiple of 4. ■ The default size is 1016.
OVFLBLK	This entry specifies the number of blocks in the overflow area of the file. This area contains the remainder of items which overflow the bucket size in the root area. ■ If the foreground library or communication file runs out of space, increase this parameter. ■ Make this number a multiple of 8. ■ The default is 224 for the foreground library (LIB) and 288 for the communication file (COM). For optimum use of VSAM file space, make the number of blocks you specify in the VSAM RECORDS parameter of the file initialization or restore JCL equal $ROOTBLK + OVFLBLK + 1$. The File Initialization JCL member is INIT or INIT2. The Restore JCL member is LBRESTOR or LBREST2. ■ If $ROOTBLK + OVFLBLK + 1$ is less than the file size, the excess space will not be used. ■ If $ROOTBLK + OVFLBLK + 1$ is more than the file size, errors can occur.

- ROOTBLK This parameter specifies the number of blocks to be used in the root addressable area of the file.
- For the foreground library, make this number approximately the number of file definitions plus the number of users anticipated to use the system. When adding a significant number of new users or file definitions, increase this parameter.
 - For the communication file, make this number approximately equal to the sum of the number of databases which can be queried through the file, the number of users of the file, the number of Background Processors to use the file plus 2, and the estimated number of reports/queries to be on the file at any time.
 - The default is 160 for the foreground library (LIB) and 120 for the communication file (COM).

PARMBLK LTERM Macro Parameters

The LTERM macro identifies and defines CICS terminals and printers to VISION:Inform for the purpose of formatting and routing output.

Note: In the statement syntax, the parameters are in alphabetical order and the default is underlined.

The LTERM statement syntax is:

```
LTERM      HEIGHT={ 11 | rrr },
           MAPSET=mapset,
           MAPNAME=mapname,
           NAME=USER device name,
           NULLCHR={ 40 | hh },
           TERMID=CICS device name,
           TYPE={32702 | 32703 | 32704 | 32705 | 3284 | 3286 | SCS | UPRINT},
           WIDTH={ 131 | ccc }
```

The LTERM parameters are:

- HEIGHT Specify the number of rows you define for a user defined printer (UPRINT) or SCS printer (SCS). The default is 11. The maximum is 240.
- MAPSET Specify the name of the mapset containing the map for this device. Use it only with UPRINT or SCS printer device definitions.
- MAPNAME Specify the name of the MAP in the mapset to output reports to this device. Use it only with UPRINT or SCS printer device definitions.

NAME	Specify a 1- to 8-byte user assigned name for the device. This is the name used in the SUBMIT or ROUTE command. ■ This parameter is optional, and if you omit it, the default is the CICS terminal name. ■ Make this name unique in the LTERM list.										
NULLCHR	Use this parameter for an SCS printer only. Use it to specify the character to produce a blank line on the printed page. ■ Specify it as a 2-character hexadecimal representation. ■ The default is 40.										
TERMID	Specify the 1- to 4-byte CICS terminal name for the device. This operand is required.										
TYPE	Required. Specify the terminal or printer type. Acceptable values are: <table> <tr> <th>Terminals</th><th>Printers</th></tr> <tr> <td>32702</td><td>3284</td></tr> <tr> <td>32703</td><td>3286</td></tr> <tr> <td>32704</td><td>SCS</td></tr> <tr> <td>32705</td><td>UPRINT</td></tr> </table> When you specify a UPRINT or SCS device, either: ■ Modify the BMS map provided for a user defined printer (INFMSRP source module item 328X) to correspond to the UPRINT Device Height and Device Width specifications. ■ Specify the name of your mapset and map with the MAPSET and MAPNAME parameters of the LTERM macro.	Terminals	Printers	32702	3284	32703	3286	32704	SCS	32705	UPRINT
Terminals	Printers										
32702	3284										
32703	3286										
32704	SCS										
32705	UPRINT										
WIDTH	Specify the number of columns for the user defined printer (UPRINT) or SCS printer (SCS). ■ The default is 131. ■ The maximum is 132. ■ Do not exceed M4LIST width in M4PARAMS.										

LTERM Considerations

VISION:Inform CICS online printer support does not extend to PC emulator programs that emulate through software a particular printer device. This does not mean that a PC network emulated printer will not work with VISION:Inform. It just means that our experiences with emulated devices is that each PC emulator application, or even different releases of the same emulator, do not always operate exactly as the actual device being emulated does.

LTERM Examples

Example 1

```
LTERM  TERMID=$000,
        TYPE=32702
```

Example 2

```
LTERM  NAME=PTN1,
        TERMID=A0A4,
        TYPE=UPRINT,
        HEIGHT=11,
        WIDTH=131
```

Example 3

```
LTERM  NAME=PRINTER1,
        TERMID=A0A4,
        TYPE=SCS
        HEIGHT=44,
        WIDTH=128,
        NULLCHR=40,
        MAPSET=MYSET,
        MAPNAME=FORMX
```

PARMBLK CUSTOM Macro Parameters

Use the CUSTOM macro to customize the screen command area entries, function key labels, and assign function keys to commands. The macro contains a list of parameters which have a series of two or three operands:

```
CUSTOM      BKWD=('BACKWARD','Backward','F7'),
            CANCEL=('CANCEL','Cancel','F12'),
            CHANGE=('CHANGE','Change','0'),
            CLEAR=('CLEAR','Clear','0'),
            COPY=('COPY','Copy','0'),
            CREATE=('CREATE','Create','0'),
            EXIT=('EXIT','Exit','F3'),
            FIELDS=('FIELDS','Fields','0'),
            FIND=('FIND','Find','0'),
            FWD=('FORWARD','Forward','F8'),
            HELP=('HELP','Help','F1'),
            LEFT=('LEFT','Left','F10'),
            LOCATE=('LOCATE','Locate','0'),
            RCHANGE=('RCHANGE','Rchange','F6'),
            RENAME=('RENAME','Rename'),
            RENUM=('RENUMBER','Renummer','0'),
            RESET=('RESET','Reset','0'),
            RFIND=('RFIND','Rfind','F5'),
            RIGHT=('RIGHT','Right','F11'),
            SAVE=('SAVE','Save','0'),
            SUBMIT=('SUBMIT','Submit','0'),
            VALID=('VALIDATE','Validate','0'),
            VIEWLST=('DATAVIEW','Dataview','0'),
            ALL=ALL,
            ASIS=ASIS
```

The CUSTOM operands operate in the following manner:

First operand	The first word shown within the parentheses. Use it to specify a customized name for the keyword (command) for which it is an operand. ■ The customized name can be up to 20 columns in length. ■ This name is used when the user keys a command name in the command line area.
Second operand	The second word shown within the parentheses. Use it to specify a customized name to be shown with a function key area of the command area of each panel. This name may be up to 8 columns long.
Third operand	The third word shown within the parentheses. Use this operand to equate a function key to the command represented by the keyword. If a macro keyword is not shown with a third operand, it represents a keyword for a command and, thus, cannot have a function key equated to it.

Note: The ALL and ASIS CUSTOM macro keywords may only specify the first operand. They are operand keywords, and cannot be assigned a function key or label.

PARMBLK ENDPARMS Macro

Make this macro specification the final macro statement in PARMBLK. It is required and has no parameters. Follow it with an END statement only.

Implementing the PARMBLK Changes

If you are completing the definition of a new library:

1. Run the PMBASMLK job in INFORM.JCL to compile and link the new PARMBLK.
2. Transfer the online modules with the TRANSFER utility.
3. Run the INIT job to initialize the files.

If you are changing the definition of an existing library or communication file and you want to preserve the previous contents:

1. Run the backup job (CMBACKUP or LBBACKUP) for the communication file or foreground library, respectively.
2. Run the PARMBLK assembly and link job (PMBASMLK) and the TRANSFER utility.
3. Run the restore job (CMRESTOR or LBRESTOR) for the communication file or foreground library, respectively. The restore jobs initialize the file before restoring the backed up data.

If you are making changes to the QFILE specifications of PARMBLK, it is necessary to initialize the file whose specifications have been changed.

For detailed information, refer to [Changing the Size of the Foreground Library or Communication File on page 5-28](#).

Modifying the M4PARAMS Parameter Module

VISION:Inform provides default conditions for many of the parameters usually determined by the operating environment in each installation. These parameters affect various functions of the system. Since these parameters are part of the installation process, VISION:Inform provides you with the capability of changing their default values.

Use the special program module, called M4PARAMS, for changing default values. M4PARAMS is supplied with VISION:Inform. It is supplied as an Assembly language source CSECT and is well documented in its source form. The default is clearly indicated for each parameter.

You can change the value of any of the parameters, but do not make any changes that would modify the relative location of any field. The M4PARAMS CSECT is link edited as a load module after the installation of VISION:Inform. It can be changed at any time using the procedure described in [Customizing Parameters in the PARMBLK and M4PARAMS Modules on page 3-16](#).

Note: Use the M4PASMLK job in INFORM.JCL to implement changes to M4PARAMS. Run the TRANSFER job to complete the process.

The following specifications affect your VISION:Inform system:

CKPCHAR	COREINDX	CURCHAR	DECCHAR	DELIMITR
DIGCHAR	GRPCHAR	HEIGHT	LSTWIDTH	LSTDFWOP
MINCHAR	Month table	PLUCHAR	SORTPGM	SORTSIZE
SUBTITLE	ZSPCHAR			

For VISION:Inform systems used with workstation client platforms, the following are the only parameters that can be changed: SORTSIZE, Month table, SORTPGM, and COREINDX.

[Figure 5-2](#) shows the listing of the M4PARAMS CSECT.

```

MPOVS      TITLE 'M4PARAMS - COMPUTER ASSOCIATES INTERNATIONAL, INC.'      00010000
          ISEQ 73,80                                                         00020000
*****
*                                                         * 00030000
*                                                         * 00040000
*          PROPRIETARY AND CONFIDENTIAL INFORMATION OF      * 00050000
*          COMPUTER ASSOCIATES INTERNATIONAL, INC.          * 00060000
*          USE RESTRICTED BY WRITTEN LICENSE AGREEMENT      * 00070000
*                                                         * 00080000
*          DO NOT REMOVE THIS NOTICE                        * 00090000
*                                                         * 00100000
*                                                         * 00110000
*          COPYRIGHT (C) COMPUTER ASSOCIATES INTERNATIONAL, * 00120000
*          AS AN UNPUBLISHED WORK. ALL RIGHTS RESERVED.     * 00130000
*                                                         * 00140000
*****
          SPACE 3                                                         00150000
          MACRO                                                         00160000
          M4TODAY &FORMAT C265 00170000
          LCLA &ACCUM C265 00180000
&ACCUM SETA 0 C265 00190000
          AIF ('&FORMAT' EQ 'MDDYY').EQU C265 00200000
&ACCUM SETA 4 C265 00210000
          AIF ('&FORMAT' EQ 'DDMMYY').EQU C265 00220000
&ACCUM SETA 8 C265 00230000
          AIF ('&FORMAT' EQ 'YYMMDD').EQU C265 00240000
&ACCUM SETA 12 C265 00250000
          AIF ('&FORMAT' EQ 'YDDMM').EQU C265 00260000
&ACCUM SETA 16 C265 00270000
          AIF ('&FORMAT' EQ 'DDYYMM').EQU C265 00280000
&ACCUM SETA 20 C265 00290000
          AIF ('&FORMAT' EQ 'MMYYDD').EQU C265 00300000
          MNOTE 8, 'ILLEGAL TODAY FORMAT, MDDYY ASSUMED' C265 00310000
&ACCUM SETA 0 C265 00320000
          .EQU ANOP C265 00330000
TODAY EQU &ACCUM C265 00340000
          MEND C265 00350000
          EJECT 00360000
***** 00370000
*          USERS MUST NOT MAKE CHANGES BEFORE THIS PAGE C265 00380000
***** 00390000
          EJECT 00400000
M4PARAMS CSECT 00410000
***** 00420000
*          00430000
*          THIS ROUTINE CONTAINS ALL PARAMETERS WHICH MAY BE SET AS USER * 00440000
*          OPTIONS. * 00450000
*          1. USERS MAY CHANGE ANY OF THE ITEMS WITHIN THE RANGES SPECIFIED. * 00460000
*          2. USERS MUST NOT CHANGE THE LENGTH OF ANY ASSEMBLY ITEMS. * 00470000
*          3. USERS MUST NOT CHANGE ITEMS THAT PRECEDE THE PAGE MARKED * 00480000
*          " * USERS MUST NOT MAKE CHANGES BEFORE THIS PAGE *." * 00490000
*          4. USERS MUST NOT CHANGE ITEMS THAT FOLLOW THE PAGE MARKED * 00500000
*          " * USERS MUST NOT MAKE CHANGES FOLLOWING THIS PAGE *." * 00510000
*          * 00520000
*          * 00530000
*          THIS ROUTINE MAY BE ASSEMBLED AND LINK EDITED AFTER BUILDER * 00540000
*          INSTALLATION IS COMPLETE. IF ALL OF THE DEFAULT PARAMETERS * 00550000
*          ARE SATISFACTORY, NO ACTION IS NEEDED. OTHERWISE, THE MODIFIED * 00560000
*          MODULE MUST BE ASSEMBLED AND LINK EDITED ACCORDING TO THE * 00570000
*          INSTRUCTIONS PROVIDED IN THE INSTALLATION MANUAL. * 00580000
*          * 00590000
***** 00600000
          EJECT 00610000
*          00620000
*          * 00630000
*          USER ID - THIRTY-TWO CHARACTERS OF TEXT TO PRINT IN THE * 00640000
*          SIGN ON. * 00650000
*          * 00660000
USERID DC CL32' ' 00670000
          SPACE 5 00680000
*          * 00690000
*          SYSTEM - ANY VALID PRINTABLE OR UNPRINTABLE CHARACTER 11.0

```

Figure 5-2 M4PARAMS Module Source (Page 1 of 10)


```

* DELIMITER      EXCEPT UNDERSCORE (X'6D') AND TILDE (X'A1').      11.0 00700000
* THIS CHARACTER IS RESERVED AND MAY NOT APPEAR      11.0 00710000
* IN ANY STATEMENTS EXCEPT FOR ITS USE      00720000
* AS A DELIMITER.      00730000
*      00740000
DELIMITR EQU C'#'      DEFAULT = POUND (NUMBER) SIGN      00750000
SPACE 5      00760000
*      00770000
* PAGE - THE NUMBER OF PRINTABLE LINES ON A PAGE. THIS      00780000
* HEIGHT NUMBER MUST BE GREATER THAN ZERO AND MUST BE      00790000
* COMPATIBLE WITH THE DEFAULT PRINTER FORM AND      00800000
* SIZE SPECIFICATION FOR THE PRINTERS AT YOUR SITE.      00810000
* THE VALUE ASSUMES A SETTING OF 6 LINES PER INCH.      00820000
*      00830000
HEIGHT EQU 66      DEFAULT = 11 INCH PAGE AT 6 LPI      00840000
SPACE 5      00850000
*      00860000
* M4LIST - THE NUMBER OF PRINTABLE COLUMNS ON THE M4LIST      QN10 00870000
* WIDTH OUTPUT DEVICE, NOT INCLUDING THE ASA CONTROL      QN10 00880000
* CHARACTER. THIS IS THE M4LIST RECORD LENGTH-1,      QN10 00890000
* AND MUST BE AT LEAST 132 COLUMNS.      QN10 00900000
*      QN10 00910000
LSTWIDTH EQU 132      DEFAULT = 132 COLUMNS      QN10 00920000
*      QN10 00930000
* DEFAULT - THE NUMBER OF PRINTABLE COLUMNS ON AN OUTPUT      QN10 00940000
* WIDTH OF REPORT PAGE, NOT INCLUDING THE ASA CONTROL      QN10 00950000
* PAGE CHARACTER. THIS IS THE DEFAULT VALUE USED IF      QN10 00960000
* "WIDTH OF PAGE" ON THE EN/ER STATEMENT IS LEFT      QN10 00970000
* BLANK. THIS VALUE MUST NOT EXCEED THE M4LIST      QN10 00980000
* WIDTH (LSTWIDTH) SPECIFIED ABOVE.      QN10 00990000
* NOTE: A ZERO VALUE WILL CAUSE THE SYSTEM TO      QN10 01000000
* USE M4LIST WIDTH FOR THIS SPECIFICATION.      QN10 01010000
*      QN10 01020000
LSTDFWOP EQU 0      DEFAULT = M4LIST WIDTH      QN10 01030000
EJECT      01040000
*      01050000
* AUTOMATIC - THE AUTOMATIC GRAND SUMMARIES FEATURE PROVIDES      01060000
* GRAND GRAND SUMMARIES FOR ALL FIELDS FOR WHICH A      01070000
* SUMMARIES SUMMARY HAS BEEN REQUESTED ON A REPORT. THE      01080000
* FEATURE IS ACTIVATED BY ENTERING AN 8. THE      01090000
* FEATURE IS DEACTIVATED BY ENTERING A 0.      01100000
*      01110000
AUTOGRND EQU 0      DEFAULT - NO AUTO GRAND SUMS      01120000
SPACE 5      01130000
*      01140000
* REPORT - ANY VALID PRINTABLE OR UNPRINTABLE CHARACTER.      01150000
* COLUMN THIS CHARACTER WILL BE USED TO FORM THE LINES      01160000
* HEADING AROUND COLUMNS HEADINGS ON REPORTS. IF A BLANK      01170000
* CHARACTER IS SPECIFIED, ONE BLANK LINE WILL BE PRINTED      01180000
* BETWEEN THE COLUMN HEADINGS AND THE DETAIL LINES      01190000
* FOR SINGLE-SPACED REPORTS, TWO FOR DOUBLE-SPACED      01200000
* REPORTS, ETC.      01210000
*      01220000
HEADCHAR EQU C'-'      DEFAULT = DASH (HYPHEN)      01230000
SPACE 5      01240000
*      01250000
* S-TYPE - THE REPEATING SUBTITLE FEATURE PROVIDES FOR      01260000
* SUBTITLE THE PRINTING OF THE PREVIOUS S-TYPE SUBTITLE      01270000
* CONTROL UPON THE COMPLETION OF PAGE OVERFLOW. THE      01280000
* FEATURE IS ACTIVATED BY ENTERING A 1. THE      01290000
* FEATURE IS DEACTIVATED BY ENTERING A 0.      01300000
*      01310000
SUBTITLE EQU 0      DEFAULT = NO REPEATED SUBTITLES      01320000
EJECT      01330000
*      01340000
* SPECIAL - THESE CHARACTERS ARE PRINTED WHEN SPECIAL      01350000
* OUTPUT SITUATIONS OCCUR DURING REPORTING:      01360000
* CHARACTERS (1) FIELD IS INVALID      01370000
* (2) FIELD DOES NOT EXIST      01380000
* (3) FIELD CANNOT BE EDITED (EITHER WILL NOT      01390000

```

Figure 5-2 M4PARAMS Module Source (Page 2 of 10)

```

*          CONVERT OR IS TOO BIG FOR THE COLUMN)                                01400000
*                                                                                   01410000
INVALID EQU C'-'          DEFAULT = STAR FOR INVALID                          01420000
NOTEXIST EQU C'-'        DEFAULT = DASH FOR MISSING                          01430000
NOTEDIT EQU C'+'        DEFAULT = PLUS FOR UNEDITABLE                        01440000
SPACE 5                                                           01450000
*                                                                                   01460000
* PERCENT - THIS CHARACTER IS PRINTED FOLLOWING A PERCENT                      01470000
* CHARACTER SUMMARY VALUE (E.G., 75.25%). J145 01480000
*                                                                                   01490000
PERCENT EQU C'%'          DEFAULT = PERCENT SIGN                            01500000
SPACE 5                                                           01510000
*                                                                                   01520000
* SUMMARY - THIS TABLE CONTAINS ONE FIVE-CHARACTER ENTRY                    01530000
* LABEL FOR EACH TYPE OF SUMMARY, PLUS ENTRIES FOR                          01540000
* TABLE PAGE AND GRAND. EACH ENTRY MUST BE EXACTLY                          01550000
* FIVE CHARACTERS LONG. LEADING OR TRAILING                                  01560000
* BLANKS ARE ACCEPTABLE. 01570000
*                                                                                   01580000
*                                                                                   01590000
TOTAL ORG M4PARAMS+105 ***** DO NOT CHANGE THIS STATEMENT SYM 01600000
DC CL5'TOTAL' 01610000
CUM DC CL5'CUM. ' 01620000
COUNT DC CL5'COUNT' 01630000
MAX DC CL5'MAX. ' 01640000
MIN DC CL5'MIN. ' 01650000
AVG DC CL5'AVG. ' 01660000
RATIO DC CL5'RATIO' 01670000
PCT DC CL5'PCT. ' 01680000
PAGE DC CL5'PAGE ' 01690000
GRAND DC CL5'GRAND' 01700000
EJECT 01710000
*                                                                                   01720000
* LISTING - THESE CHARACTERS ARE USED AS SEPARATORS IN                       01730000
* DELIMITER THE FORMATTED SOURCE STATEMENT LISTING. THE                      01740000
* CHARACTERS SINGLE SEPARATOR IS USED WHEN A LEFT AND                        01750000
* RIGHT SEPARATOR WOULD OTHERWISE OCCUPY THE                                01760000
* SAME POSITION. 01770000
*                                                                                   01780000
LEFTMRK EQU C'('          DEFAULT = LEFT PARENTHESIS                       01790000
RIGHTMRK EQU C')'         DEFAULT = RIGHT PARENTHESIS                       01800000
SINGSEP EQU C','          DEFAULT = COMMA 01810000
SPACE 5 01820000
*                                                                                   01830000
* SOURCE - ASA CARRIAGE CONTROL CHARACTER FOR FORMATTED                      01840000
* STATEMENT SOURCE STATEMENT LISTING. THIS CARRIAGE                          01850000
* LISTING CONTROL CHARACTER IS USED ON ALL FORMATTED                         01860000
* VERTICAL SOURCE LINES AND ON THE FIRST LINE OF ANY                          01870000
* SPACING FORMATTED SOURCE STATEMENT COLUMN HEADINGS.                        01880000
* ACCEPTABLE CARRIAGE CONTROL CHARACTERS ARE:                                01890000
* BLANK = SINGLE SPACING 01900000
* 0 = DOUBLE SPACING 01910000
* - = TRIPLE SPACING 01920000
*                                                                                   01930000
SLCCTL EQU C' '          DEFAULT = SINGLE SPACING 01940000
SPACE 5 01950000
*                                                                                   01960000
* MESSAGE - THE MESSAGE CONTROL FEATURE PROVIDES FOR                          01970000
* CONTROL SUPPRESSION OF MESSAGES OUTPUT TO M4LIST                           01980000
* AND/OR THE CONSOLE TYPEWRITER. MESSAGES 01990000
* ARE INHIBITED BY ENTERING A 1. MESSAGES 02000000
* ARE NOT INHIBITED BY ENTERING A 0. 02010000
*                                                                                   02020000
PRINT EQU 0          DEFAULT = PRINTER MESSAGES ON 02030000
CONSOLE EQU 1        DEFAULT = CONSOLE MESSAGES OFF 02040000
EJECT 02050000
*                                                                                   02060000
* M4REPO - THE BLOCKSIZE FOR REPORT FILES. THE SIZE                          02070000
* BLOCKSIZE MUST BE AT LEAST 264. NOTE THAT THIS J228 02080000
* BLOCKSIZE IS ALSO USED AS THE DEFAULT 02090000
* BLOCKSIZE FOR VARIABLE LENGTH SUBFILES QN06

```

Figure 5-2 M4PARAMS Module Source (Page 3 of 10)

```

*          AND PROGRAM ANALYZER (PAL) OUTPUT.          QN06 02100000
*          ALSO, THIS BLOCKSIZE - 8 IS USED AS        QN06 02110000
*          THE DEFAULT BLOCKSIZE FOR UNDEFINED        02120000
*          LENGTH SUBFILES.                          02130000
*                                                    02140000
REPOSIZ EQU 4096          DEFAULT = 4096 BLOCKSIZE 02150000
          SPACE 5        02160000
*                                                    02170000
* NUMBER      - NUMBER OF I/O BUFFERS TO BE ASSIGNED 02180000
* OF I/O      TO USER DATA FILES.                  02190000
* BUFFERS                                           02200000
*                                                    02210000
INPUT EQU 2              DEFAULT = 2 INPUT BUFFERS/FILE 02220000
OUTPUT EQU 1             DEFAULT = 1 OUTPUT BUFFER/FILE 02230000
          SPACE 3        RIP 02240000
*                                                    RIP 02250000
* ONE-STEP    - THIS IS THE DEFAULT MAIN STORAGE ALLOCATION FOR RIP 02260000
* REPORT      THE REPORTER WHEN REPORT FILE OPTIMIZATION RIP 02270000
* STORAGE     IS USED IN A NO-SORT TYPE RUN.          RIP 02280000
*                                                    RIP 02290000
*                                                    RIP 02300000
*          THIS VALUE MUST BE AT LEAST 1024 AND NO GREATER RIP 02310000
*          THAN 1048576.                               RIP 02320000
REPTSIZE EQU 8192        DEFAULT = 8K               RIP 02330000
          SPACE 3        SIP 02340000
*                                                    SIP 02350000
* ONE-STEP    - THIS IS THE DEFAULT MAIN STORAGE ALLOCATION FOR SIP 02360000
* SORT        THE SORT PROGRAM WHEN REPORT FILE OPTIMIZATION SIP 02370000
* STORAGE     IS USED IN A RUN REQUIRING A SORT OF THE SIP 02380000
*          REPORT FILE.                               SIP 02390000
*          THIS VALUE MUST BE AT LEAST 1024 AND NO GREATER SIP 02400000
*          THAN 16777216.                             SIP 02410000
*                                                    SIP 02420000
SORTSIZE EQU 524288      DEFAULT = 512K             SIP 02430000
          EJECT
***** ULS 02440000
*          * ULS 02450000
* C H A R A C T E R S   U S E D   I N   E D I T   P A T T E R N S * U026 02460000
*          * ULS 02470000
* THE FOLLOWING EIGHT M4PARAMS OPTIONS CONTROL THE FORMAT OF * ULS 02480000
* FIELDS THAT ARE USING EXPLICIT EDIT PATTERNS.          * U026 02490000
*          * ULS 02500000
* THE EIGHT PARAMETERS ARE: DIGIT SELECT CHARACTER.      DIGCHAR* ULS 02510000
*          ZERO SUPPRESS CHARACTER.                      ZSPCHAR* ULS 02520000
*          CURRENCY SYMBOL CHARACTER.                    CURCHAR* ULS 02530000
*          PLUS SYMBOL CHARACTER.                        PLUCHAR* ULS 02540000
*          MINUS SYMBOL CHARACTER.                       MINCHAR* ULS 02550000
*          CHECK PROTECTION CHARACTER.                   CKPCHAR* ULS 02560000
*          DECIMAL POINT CHARACTER.                     DECCHAR* ULS 02570000
*          GROUPING CHARACTER.                           GRPCHAR* ULS 02580000
*          * ULS 02590000
* THE DECIMAL POINT AND GROUPING CHARACTERS ARE ALSO USED FOR * ULS 02600000
* OUTPUT REPORT EDITING OF NUMERIC FIELDS WHEN NO EXPLICIT * U026 02610000
* PATTERN IS SPECIFIED AND ARE RECOGNIZED AS DECIMAL POINT * ULS 02620000
* AND GROUPING CHARACTERS RESPECTIVELY WHEN CONVERTING INPUT * ULS 02630000
* CHARACTER STRING DATA TO NUMERIC VALUES.             * ULS 02640000
*          * ULS 02650000
*          * ULS 02660000
* VALID ENTRIES FOR THESE PARAMETERS INCLUDE ANY CHARACTER * ULS 02670000
* PRINTABLE OR UNPRINTABLE EXCEPT CHARACTERS IN THE RANGE * ULS 02680000
* OF HEXADECIMAL VALUES X'00' THROUGH X'30'. IN ADDITION, * ULS 02690000
* EACH SYMBOL MUST BE UNIQUE AMONG ALL THE EIGHT EDITING * ULS 02700000
* SYMBOLS AND THE SYSTEM DELIMITER. THAT IS, NONE OF THE * ULS 02710000
* NINE PARAMETERS (EIGHT EDIT SYMBOLS AND ONE SYSTEM * ULS 02720000
* DELIMITER) MAY BE THE SAME CHARACTER.                  * ULS 02730000
*          * ULS 02740000
*          * ULS 02750000
*          * ULS 02760000
***** ULS 02770000
          SPACE 3        ULS 02780000
*          ULS 02790000

```

Figure 5-2 M4PARAMS Module Source (Page 4 of 10)

```

* DIGIT      - SPECIFIES A DIGIT POSITION IN NUMERIC EDITED
* SELECT     FIELDS.
* CHARACTER
*
DIGCHAR EQU C'9'          DEFAULT = 9
SPACE 3
*
* ZERO      - SPECIFIES DIGIT POSITIONS IN NUMERIC EDITED
* SUPPRESS  FIELDS WHICH WILL BE BLANKED IF ZERO.
* CHARACTER
*
ZSPCHAR EQU C'Z'          DEFAULT = Z
SPACE 3
*
* CURRENCY  - SPECIFIES A LEADING/FLOATING CURRENCY SYMBOL
* SYMBOL    FOR NUMERIC EDITED FIELDS.
* CHARACTER
*
CURCHAR EQU C'$'          DEFAULT = $
SPACE 3
*
* PLUS      - SPECIFIES A LEADING/FLOATING/TRAILING PLUS
* SYMBOL    SYMBOL FOR NUMERIC EDITED FIELDS.
* CHARACTER
*
PLUCHAR EQU C'+'          DEFAULT = +
SPACE 3
*
* MINUS     - SPECIFIES A LEADING/FLOATING/TRAILING MINUS
* SYMBOL    SYMBOL FOR NUMERIC EDITED FIELDS.
* CHARACTER
*
MINCHAR EQU C'-'          DEFAULT = -
SPACE 3
*
* CHECK     - SPECIFIES A FILL CHARACTER FOR LEADING ZERO
* PROTECTION DIGITS IN NUMERIC EDITED FIELDS.
* CHARACTER
*
CKPCHAR EQU C'*'          DEFAULT = *
SPACE 3
*
* DECIMAL   - DECIMAL POINT CHARACTER FOR NUMERIC FIELDS.
* POINT
* CHARACTER
*
DECCHAR EQU C'.'          DEFAULT = .
SPACE 5
*
* GROUPING  - GROUPING CHARACTER FOR NUMERIC FIELDS.
* CHARACTER
*
GRPCHAR EQU C','          DEFAULT = ,
EJECT
*****
* GRAF 03330000
* GRAF 03340000
* GRAF 03350000
* GRAF 03360000
* GRAF 03370000
* GRAF 03380000
* GRAF 03390000
* GRAF 03400000
* GRAF 03410000
* GRAF 03420000
* GRAF 03430000
* GRAF 03440000
* GRAF 03450000
* GRAF 03460000
* GRAF 03470000
* GRAF 03480000
* GRAF 03490000
* THE FOLLOWING SEVEN M4PARAMS OPTIONS CONTROL THE CHARACTERS
* IN PLOTTING A GRAPH.
*
* THE SEVEN PARAMETERS ARE: PRIMARY PLOT CHARACTER
* SECONDARY PLOT CHARACTER
* FIT PLOT CHARACTER
* HORIZONTAL AXIS CHARACTER
* HORIZONTAL HASH CHARACTER
* VERTICAL AXIS CHARACTER
* VERTICAL HASH CHARACTER
*
* THE ONLY RESTRICTIONS APPLY TO THE PRIMARY AND SECONDARY PLOT

```

Figure 5-2 M4PARAMS Module Source (Page 5 of 10)

```

* CHARACTERS WHICH CANNOT BE BLANK.
*
*
*
*****
      SPACE 3
*
* PRIMARY      - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* PLOT          SINGLE POINTS (SCATTER DIAGRAM)
* CHARACTER     BARS
*
PRMCHAR EQU C'X'          DEFAULT = X
      SPACE 3
*
* SECONDARY    - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* PLOT          OVERLAID POINTS (SCATTER DIAGRAM)
* CHARACTER
*
SCDCHAR EQU C'*'          DEFAULT = * (ASTERISK)
      SPACE 3
*
* FIT          - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* PLOT          A LEAST SQUARES FIT LINE.
* CHARACTER
*
FITCHAR EQU C'.'          DEFAULT = . (PERIOD)
      SPACE 3
*
* HORIZONTAL    - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* AXIS          THE HORIZONTAL AXES.
* CHARACTER
*
HZACHAR EQU C'_'          DEFAULT = _ (UNDERSCORE)
      SPACE 3
*
* HORIZONTAL    - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* HASH          THE HORIZONTAL HASH CHARACTERS MARKING
* CHARACTER     INTERVALS.
*
HZHCHAR EQU C'|'          DEFAULT = | (VERTICAL BAR)
      SPACE 3
*
* VERTICAL      - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* AXIS          THE VERTICAL AXES.
* CHARACTER
*
VTACHAR EQU C'|'          DEFAULT = | (VERTICAL BAR)
      SPACE 3
*
* VERTICAL      - SPECIFIES THE CHARACTER TO USE WHEN PLOTTING
* HASH          THE VERTICAL HASH CHARACTERS MARKING INTERVALS.
* CHARACTER
*
VTHCHAR EQU C'-'          DEFAULT = - (DASH)
      EJECT
*
* UNIT          - TIME PROCESSING CAPABILITY UNIT
* CONVERSION    CONVERSION MULTIPLIERS AND DELIMITER.
* MULTIPLIERS   THE MULTIPLIER VALUES MUST BE POSITIVE
* AND DELIMITER INTEGERS LESS THAN 100. THE DEFAULT
*               VALUES ARE SET FOR HOURS/MINUTES/SECONDS.
*
MULTPLR1 EQU 60          DEFAULT = 60 MINUTES/HOUR
MULTPLR2 EQU 60          DEFAULT = 60 SECONDS/MINUTE
TIMEDELM EQU C':'        DEFAULT = HH:MM:SS
      EJECT
*
* MONTH        - THIS TABLE CONTAINS ONE THREE-CHARACTER ENTRY
* TABLE       FOR EACH MONTH OF THE YEAR. EACH ENTRY MUST BE

```

Figure 5-2 M4PARAMS Module Source (Page 6 of 10)

```

*          EXACTLY THREE CHARACTERS LONG.  LEADING OR TRAILING 04200000
*          BLANKS ARE ACCEPTABLE.                                04210000
*                                                                04220000
*          ORG M4PARAMS+69 ***** DO NOT CHANGE THIS STATEMENT  SYM 04230000
JAN      DC CL3'JAN'                                           04240000
FEB      DC CL3'FEB'                                           04250000
MAR      DC CL3'MAR'                                           04260000
APR      DC CL3'APR'                                           04270000
MAY      DC CL3'MAY'                                           04280000
JUN      DC CL3'JUN'                                           04290000
JUL      DC CL3'JUL'                                           04300000
AUG      DC CL3'AUG'                                           04310000
SEP      DC CL3'SEP'                                           04320000
OCT      DC CL3'OCT'                                           04330000
NOV      DC CL3'NOV'                                           04340000
DEC      DC CL3'DEC'                                           04350000
          SPACE 5                                             04360000
*                                                                04370000
* DATE FLAG - SPECIFIES THE FORMAT OF THE DATE FLAG.  THE FORMATS 04380000
* FORMAT    AVAILABLE AND THE VALUES ENTERED TO SELECT THEM ARE: 04390000
*          MMM DD, YYYY 0                                         04400000
*          DD MMM YYYY 1                                         04410000
*          YYYY MMM DD 2                                         04420000
*                                                                04430000
DATE     EQU 0                                           DEFAULT = MMM DD, YYYY 04440000
          SPACE 5                                             04450000
*                                                                04460000
* TODAY FLAG - SPECIFIES THE FORMAT OF THE TODAY FLAG.  THE FORMATS 04470000
* FORMAT    AVAILABLE AND THE VALUES ENTERED TO SELECT THEM ARE: 04480000
*          MMDDYY MMDDYY                                         04490000
*          DDMMYY DDMMYY                                         04500000
*          YYMMDD YYMMDD                                         04510000
*          MMYYYD MMYYYD                                         04520000
*          DDYYMM DDYYMM                                         04530000
*          YYDDMM YYDDMM                                         04540000
*                                                                04550000
          M4TODAY MMDDYY                                           DEFAULT = MMDDYY 04560000
          EJECT                                                    04570000
*                                                                04580000
* TODAY FLAG - SPECIFIES THE DELIMITER USED TO FORMAT THE TODAY 04590000
* DELIMITER  FLAG WHEN USED AS A REPORT DATE OR FREE FORM DATE 04600000
*          FLAG.  ALSO USED TO FORMAT A USER-SUPPLIED REPORT 04610000
*          DATE.                                              04620000
*                                                                04630000
TODAYDLM EQU C'/'                                           DEFAULT = MM/DD/YY 04640000
          SPACE 5                                             04650000
*                                                                04660000
* ISDATE FLAG - SPECIFIES THE DELIMITER USED TO FORMAT THE ISDATE 04670000
* DELIMITER  FLAG WHEN USED AS A REPORT DATE OR FREE FORM DATE 04680000
*          FLAG.                                              04690000
*                                                                04700000
ISDATDLM EQU C'-'                                           DEFAULT = YYYY-MM-DD 04710000
          SPACE 5                                             04720000
*                                                                04730000
* JULIAN FLAG - SPECIFIES THE DELIMITER USED TO FORMAT THE JULIAN 04740000
* DELIMITER  FLAG WHEN USED AS A REPORT DATE OR FREE FORM DATE 04750000
*          FLAG.                                              04760000
*                                                                04770000
JULDLM   EQU C'.'                                           DEFAULT = YY.DDD 04780000
          SPACE 5                                             04790000
* SORT - SPECIFIES THE SORT PROGRAM FOR WHICH SORT CONTROL 04800000
* PROGRAM STATEMENTS ARE TO BE GENERATED.  THE SORT PROGRAMS 04810000
*          AND THE VALUES ENTERED TO SELECT THEM ARE: 04820000
*          SM-023 0 I136 04830000
*          5734-SM1 1 I136 04840000
*          5740-SM1 2 04850000
*                                                                04860000
SORTPGM  EQU 2                                           DEFAULT = 5740-SM1 04870000
          EJECT                                                    04880000
*                                                                04890000

```

Figure 5-2 M4PARAMS Module Source (Page 7 of 10)

```

* MAXIMUM      - SPECIFIES THE MAXIMUM AMOUNT OF STORAGE, IN K,      Z021 04900000
* WORKING      TO ALLOCATE FOR WORKING STORAGE.  THIS STORAGE        Z021 04910000
* STORAGE      DOES NOT INCLUDE FILE BUFFERS.                        Z021 04920000
*                                                     Z021 04930000
MAXGETMN EQU   1024                      DEFAULT = 1024K             Z021 04940000
*                                                     04950000
* MINIMUM      - SPECIFIES MINIMUM AMOUNT OF STORAGE, IN K, TO      SYSM 04960000
* STORAGE      BE RELEASED TO THE SYSTEM AT THE START OF THE        SYSM 04970000
* RELEASED     RUN VIA THE 'FREEMAIN' MACRO.                         04980000
* TO SYSTEM    04990000
*                                                     05000000
MINCORE EQU    12                      DEFAULT = 12K                SYSM 05010000
SPACE 5                                               05020000
* ALTERNATE    - THE NUMBER OF PRINTABLE COLUMNS ON THE ALTERNATE  QN10 05030000
* M4LIST       M4LIST OUTPUT DEVICE, NOT INCLUDING THE ASA          QN10 05040000
* WIDTH        CONTROL CHARACTER.  THIS IS THE M4LIST1 RECORD       QN10 05050000
*                                                     QN10 05060000
*                                                     QN10 05070000
ALTWIDTH EQU   132                      ALT DEFAULT = 132 COLUMNS QN10 05080000
*                                                     QN10 05090000
* ALTERNATE    - THE NUMBER OF PRINTABLE COLUMNS ON AN ALTERNATE  QN10 05100000
* DEFAULT      REPORT PAGE, NOT INCLUDING THE ASA CONTROL           QN10 05110000
* WIDTH OF     CHARACTER.  THIS IS THE DEFAULT VALUE USED IF        QN10 05120000
* PAGE        "WIDTH OF PAGE" ON THE EN/ER STATEMENT IS LEFT        QN10 05130000
*                                                     QN10 05140000
*                                                     QN10 05150000
*                                                     QN10 05160000
*                                                     QN10 05170000
*                                                     QN10 05180000
*                                                     QN10 05190000
ALTDFWOP EQU   0                      ALT DEFAULT = M4LIST1 WIDTH  SNDS 05200000
SPACE 5                                               SNDS 05210000
*                                                     SNDS 05220000
* SUPPRESS     - WHEN NO DATA IS SELECTED FOR A REPORT A SKELETON  SNDS 05230000
* NO-DATA-     REPORT IS PRODUCED INDICATING NO SELECTED DATA.     SNDS 05240000
* SELECTED     THIS PARAMETER WILL ALLOW SUPPRESSION OF THAT       SNDS 05250000
* REPORT       SKELETON REPORT.  ENTER 'N' TO INDICATE PRINTING     SNDS 05260000
*                                                     SNDS 05270000
*                                                     SNDS 05280000
*                                                     SNDS 05290000
SUPRSNDS EQU   C'N'                      DEFAULT = NO              X054 05300000
SPACE 5                                               X054 05310000
* SUPPRESS     - THE FOLLOWING 3 SPECIFICATIONS ALLOW INFORMATION  X054 05320000
* INFO AND     AND WARNING MESSAGES (MESSAGE TYPES 0 AND 1) TO      X054 05330000
* WARNING      BE OPTIONALLY SUPPRESSED FOR ANY OF THE DECODE/      X054 05340000
* MESSAGES     COMPILATION, FILE PROCESSING OR REPORT GENERATION    X054 05350000
*                                                     X054 05360000
*                                                     X054 05370000
*                                                     X054 05380000
*                                                     X054 05390000
*                                                     X054 05400000
*                                                     X054 05410000
*                                                     X054 05420000
DECMISOPT EQU  C'Y' DECODE/COMPILATION PHASE INFO MESSAGES = YES  X054 05430000
PROMSOPT EQU   C'Y' FILE PROCESSING   PHASE INFO MESSAGES = YES  X054 05440000
RPTMSOPT EQU   C'Y' REPORT GENERATION  PHASE INFO MESSAGES = YES  X054 05450000
SPACE 5                                               Z007 05460000
* FILE         - THIS OPTION SPECIFIES THE DEFAULT ADDRESSING      Z007 05470000
* PROCESSING   MODE TO BE USED DURING THE FILE PROCESSING          Z007 05480000
* PHASE        PHASE OF THE APPLICATION.  ENTER 'Y' TO INDICATE    Z007 05490000
* ADDRESS      THAT 31-BIT ADDRESSING BE USED AND THAT FILE        Z007 05500000
* MODE        BUFFERS AND OTHER FILE PROCESSING STORAGE AREAS      Z007 05510000
*                                                     Z007 05520000
*                                                     Z007 05530000
*                                                     Z007 05540000
*                                                     Z007 05550000
*                                                     Z007 05560000
*                                                     Z007 05570000
*                                                     Z007 05580000
*                                                     Z007 05590000
AMODE31 EQU    C'Y'                      FILE PROCESSING AMODE(31) = YES
SPACE 5

```

Figure 5-2 M4PARAMS Module Source (Page 8 of 10)

```

* M4PAOUT      - THE MAXIMUM NUMBER OF LINES TO BE          QN06 05600000
* MAXIMUM      PROVIDED FOR THE PROGRAM ANALYZER           QN06 05610000
* LINES        REQUEST EXECUTION TRACE.                   QN06 05620000
*                                                     QN06 05630000
PALTRCMX EQU   1024          DEFAULT = 1024 LINES         QN06 05640000
EJECT                                                  QN10 05650000
* ----- QN10 05660000
* - QN10 05670000
* - S Y S T E M   D E P E N D E N T   V A L U E S   - QN10 05680000
* - QN10 05690000
* ----- QN10 05700000
SPACE 3 QN10 05710000
* 05720000
* HIGH LEVEL - SPECIFIES WHETHER OR NOT THE HIGHEST LEVEL ISAM 05730000
* ISAM INDEX INDICES FOR BISAM INPUT AND BISAM INPUT/OUTPUT 05740000
* CONTROL    FILES ARE TO RESIDE IN MAIN STORAGE FOR IMPROVED 05750000
*            EFFICIENCY. THE HIGHEST LEVEL INDICES MAY BE 05760000
*            TRACK, CYLINDER, OR (IF OPTCD=M WAS SPECIFIED 05770000
*            WHEN THE ISAM FILE WAS CREATED) MASTER INDICES. 05780000
*            THE HIGHEST LEVEL INDICES ARE MADE RESIDENT BY 05790000
*            ENTERING A 1. THE HIGHEST LEVEL INDICES REMAIN 05800000
*            NON-RESIDENT BY ENTERING A 0. 05810000
* 05820000
COREINDX EQU   0          DEFAULT = NO INDICES IN STORAGE 05830000
SPACE 3 11.0 05840000
***** 05850000
* FOLLOWING ARE THE DEFAULT CONDITION CODES * 05860000
***** 05870000
SPACE 1 11.0 05880000
CONDCOD1 EQU   0          NORMAL TERMINATION 11.0 05890000
CONDCOD2 EQU   4          ERROR TERMINATION 11.0 05900000
CONDCOD3 EQU   8          NO SORTING (RC SPECIFICATION) 11.0 05910000
CONDCOD4 EQU  16          NO SORTING (INVALID REQUESTS) 11.0 05920000
EJECT 05930000
***** 05940000
* USERS MUST NOT MAKE CHANGES FOLLOWING THIS PAGE * 05950000
***** 05960000
EJECT 05970000
ORG M4PARAMS+L'USERID , QN06 05980000
M4RELNO DC CL4'14.0' RELEASE NUMBER Y015 05990000
M4DELIM DC AL1(DELIMITR) SYSTEM DELIMITER 06000000
M4HEIGHT DC AL1(HEIGHT) PAGE HEIGHT 06010000
DC X'00' ***** UNUSED ***** Z019 06020000
M4AUTOG DC AL1(AUTOGRND) AUTOMATIC GRAND SUMMARIES 06030000
M4SING DC AL1(SINGSEP) LISTING DELIMITER CHARACTER 06040000
M4HEADER DC AL1(HEADCHAR) REPORT COLUMN HEADING CHARACTER 06050000
M4SUBTIT DC AL1(SUBTITLE) SUBTITLE CONTROL 06060000
M4MESAND DC AL1(X'FF'-10*CONSOLE) MESSAGE CONTROL 06070000
M4MESOR DC AL1(PRINT) MESSAGE CONTROL 06080000
M4LFTMRK DC AL1(LEFTMRK) LISTING DELIMITER CHARACTER 06090000
M4RHTMRK DC AL1(RIGHTMRK) LISTING DELIMITER CHARACTER 06100000
M4INVFLD DC AL1(INVALID) SPECIAL OUTPUT CHARACTER 06110000
M4NONEXT DC AL1(NOTEXIST) SPECIAL OUTPUT CHARACTER 06120000
M4NOEDIT DC AL1(NOTEDIT) SPECIAL OUTPUT CHARACTER 06130000
M4PERCNT DC AL1(PERCENT) PERCENT CHARACTER 06140000
DC AL1(0) ** UNUSED-OLD M4LIB RESERVE QN15 06150000
M4REPO DC Y(REPOSIZ) M4REPO BLOCKSIZE 06160000
M4INBUT DC AL1(INPUT) NUMBER OF I/O BUFFERS 06170000
M4OTBUF DC AL1(OUTPUT) NUMBER OF I/O BUFFERS 06180000
M4CYLOVL DC AL1(0) # OF TRACKS FOR ISAM CYL OFLO 06190000
M4SLCTL DC AL1(SLCCTL) SOURCE STMT LISTING VERT SP 06200000
M4LIST DC AL1(0) M4LIST UNIT ASSIGNMENT 06210000
M4INPUT DC AL1(0) M4INPUT UNIT ASSIGNMENT 06220000
M4MINCOR DC Y(MINCORE) MINIMUM STORAGE RELEASE TO SYS 06230000
M4SORTP DC AL1(SORTPGM) SORT PROGRAM 06240000
M4DECPT DC AL1(DECCHAR) DECIMAL POINT CHARACTER 06250000
M4COMMA DC AL1(GRPCHAR) GROUPING CHARACTER 06260000
M4MULT1 DC AL1(MULTPLR1) UNIT CONVERSION MULTIPLIER 06270000
M4MULT2 DC AL1(MULTPLR2) UNIT CONVERSION MULTIPLIER 06280000
M4TIMDEL DC AL1(TIMEDELM) UNIT CONVERSION DELIMITER 06290000

```

Figure 5-2 M4PARAMS Module Source (Page 9 of 10)


```

M4DATFMT DC AL1 (DATE) DATE FLAG FORMAT 06300000
M4MONTH EQU * MONTH TABLE 06310000
          ORG *+3*12 ***** DO NOT CHANGE THIS STATEMENT ***** 06320000
M4LABEL EQU * SUMMARY LABEL TABLE 06330000
          ORG *+5*10 ***** DO NOT CHANGE THIS STATEMENT ***** 06340000
M4TDYFMT DC AL1 (TODAY) TODAY FLAG FORMAT 06350000
M4TDYDLM DC AL1 (TODAYDLM) TODAY FLAG DELIMITER 06360000
M4ISDDLDC DC AL1 (ISDATDLM) ISDATE FLAG DELIMITER 06370000
M4JULDLM DC AL1 (JULDLM) JULIAN FLAG DELIMITER 06380000
M4VOLCNT DC AL1 (0) M4REPO VOLUME COUNT 06390000
          DC Y (0) ** UNUSED-OLD M4LIB BLKSIZE QN15 06400000
M4CYLIDX DC AL1 (COREINDX) HIGH LEVEL ISAM INDEX CONTROL 06410000
M4LSTLBL DC AL1 (0) M4LIST TAPE LABELS 06420000
M4AM31 DC AL1 (AMODE31) 31-BIT ADDRESS MODE OPTION Z007 06430000
M4INTR DC AL1 (0) IMPRECISE INTERRUPT BIG1 06440000
M4MODNO DC AL1 (1) 360/370 INSTRUCTION SET BIG1 06450000
M4FLTPT DC AL1 (1) FLOATING POINT HARDWARE BIG1 06460000
M49DCHAR DC AL1 (DIGCHAR) DIGIT SELECT ULS 06470000
M4ZDCHAR DC AL1 (ZSPCHAR) ZERO SUPPRESS ULS 06480000
M4CPCCHAR DC AL1 (CKPCHAR) CHECK PROTECTION ULS 06490000
M4CUCHAR DC AL1 (CURCHAR) CURRENCY SYMBOL ULS 06500000
M4PLCHAR DC AL1 (PLUCHAR) PLUS SIGN ULS 06510000
M4MICHA DC AL1 (MINCHAR) MINUS SIGN ULS 06520000
M4REPTSZ DC AL4 (REPTSIZE) REPORTER STORAGE RTP 06530000
M4SORTSZ DC AL4 (SORTSIZE) SORT STORAGE STP 06540000
M4PRCHAR DC AL1 (PRMCHAR) PRIMARY PLOT CHARACTER GRAF 06550000
M4SCCHAR DC AL1 (SCDCHAR) SECONDARY PLOT CHARACTER GRAF 06560000
M4FTCHAR DC AL1 (FITCHAR) FIT PLOT CHARACTER GRAF 06570000
M4HACHAR DC AL1 (HZACHAR) HORIZONTAL AXIS CHARACTER GRAF 06580000
M4HHCHAR DC AL1 (HZHCHAR) HORIZONTAL HASH CHARACTER GRAF 06590000
M4VACHAR DC AL1 (VTACHAR) VERTICAL AXIS CHARACTER GRAF 06600000
M4VHCHAR DC AL1 (VTHCHAR) VERTICAL HASH CHARACTER GRAF 06610000
M4PALTRM DC AL4 (PALTRCMX) MAX PAL TRACE LINES QN06 06620000
          DC X'00' ***** UNUSED ***** Z019 06630000
M4AWIDTH DC AL2 (ALTWIDTH) ALT M4LIST WIDTH (LRECL-1) Z019 06640000
M4SUPNDS DC AL1 (SUPRSNDS) SUPPRESS NO-DATA-SEL RPT? SNDS 06650000
          DC X'00' ***** UNUSED ***** 11.0 06660000
M4CCODE1 DC AL2 (CONDCOD1) NORMAL CONDITION CODE 11.0 06670000
M4CCODE2 DC AL2 (CONDCOD2) ERROR CONDITION CODE 11.0 06680000
M4CCODE3 DC AL2 (CONDCOD3) NO SORT (SPECIFIED) 11.0 06690000
M4CCODE4 DC AL2 (CONDCOD4) NO SORT (INVALID REQUESTS) 11.0 06700000
M4MSDEC DC AL1 (DECMISOPT) DECODE/COMPILE MSG OPTION X054 06710000
M4MSPRO DC AL1 (PROMISOPT) PROCESSING MSG OPTION X054 06720000
M4MSRPT DC AL1 (RPTMSOPT) REPORTING MSG OPTION X054 06730000
          DC X'00' ***** UNUSED ***** Z019 06740000
M4WIDTH DC AL2 (LSTWIDTH) M4LIST WIDTH (LRECL-1) Z019 06750000
M4DEFWD DC AL2 (LSTDFWOP) DEFAULT MK4 WIDTH-OF-PAGE Z019 06760000
M4ADEFWD DC AL2 (ALTDFWOP) DEFAULT ALT WIDTH-OF-PAGE Z019 06770000
M4MAXGMN DC AL4 (MAXGETMN) DEFAULT MAX GETMAIN Z021 06780000
          DC XL8'00' ***** UNUSED ***** Z019 06790000
M4PAREND EQU *-1 ### M4PARAMS END LOC ### QN10 06800000
* Z019 06810000
          END 06820000

```

Figure 5-2 M4PARAMS Module Source (Page 10 of 10)

Changing the Size of the Foreground Library or Communication File

If you need additional space in the VISION:Inform foreground library or communication file, you usually need to increase the number of overflow blocks. You only need to add root blocks when the Backup Utility output listing shows an increasing number of root overflow blocks in use.

Follow these steps, in the order shown, to increase the size of these files:

1. Take the file (foreground library or communication file) offline.
The procedure to increase the size of a file includes deleting the VSAM cluster containing the file. For this reason, no other application can have the file open during this procedure.
2. Back up the file.
 - For the foreground library, modify the JCL in the LBBACKUP member of the INFORM.JCL PDS. You only need to run the BACKFG step.
 - For the communication file, modify the CMBACKUP JCL member. Run the job.Check the output listing to verify that it ran without error. Make note of the space utilization messages at the end of the listing.
3. Modify the QFILE macro in the PARMBLK source.
Locate the customized copy of the PARMBLK that you used to install VISION:Inform.
 - This is delivered as member PARMBLK in the INFORM.SRCLIB PDS.
 - This member contains two invocations of the QFILE macro, one for the foreground library (QFILE LIB), and one for the communication file (QFILE COM).
 - Change the OVFLBLK parameter value to the new value. Make OVFLOW a multiple of 8.Save the updated PARMBLK source. Assemble and link the new PARMBLK by executing the JCL member PMBASMLK in the INFORM.JCL job control library.
4. Run the TRANSFER Utility.
This job is optional. Some installations share one load library between the batch jobs and the online system (CICS). You do not have to run the TRANSFER job in this case.
If you have two Inform load libraries, one used by the batch jobs and the other used by CICS, you must run the TRANSFER Utility. After it is complete you must refresh the VISION:Inform load modules under CICS to put the new PARMBLK values into effect online.
5. Restore the file.

- For the foreground library, modify the JCL member LBRESTOR in the INFORM.JCL job control library to restore the contents of file from the backup taken in the second step described above. You only need to run steps DEFFG and RESTFG.
 - For the communication file, use the CMRESTOR job. Change the value of RECORDS in the DEFINE CLUSTER statement to be equal to (ROOTBLK + OVFLBLK + 1) from the new values used in the QFILE macro.
6. Use the file.
- The file, with its increased capacity is now available for use. Bring it back online and use it.

Establishing Concurrent Update Access to the Foreground Library

The VISION:Inform system, as delivered, provides for only one application at a time to have the foreground library open for update. Usually, this application is CICS. However, the Batch Simulator, as well as the Definition Processor Promote process, also update the foreground library.

- The following items control concurrent updating of the foreground library:
 - The CICS DEFINE FILE LSRPOOL entry for the foreground library in the resource definition statements for VISION:Inform online under CICS.
 - The SHAREOPTIONS values in the VSAM DEFINE CLUSTER for the foreground library (INIT and LBRESTOR jobs in the INFORM.JCL PDS).
 - The BUFFERSPACE values in the VSAM DEFINE CLUSTER for the foreground library (INIT and LBRESTOR jobs in the INFORM.JCL PDS).
 - The ENQNAME parameter in the PARMBLK PARMS macro source (member PARMBLK in the INFORM.SRCLIB PDS).
- As delivered, the foreground library is set up for update access by the CICS online region only. This is controlled by setting the following values in the default installation setup:
 - LSRPOOL(1) specified in DEFINE FILE to CICS.
 - SHAREOPTIONS(2,3) specified in the VSAM DEFINE CLUSTER.
 - No BUFFERSPACE parameter is specified in the VSAM DEFINE CLUSTER.

To customize your VISION:Inform system so that multiple applications can update the foreground library concurrently, perform the following steps.

1. Take the foreground library offline.
2. Change the DEFINE FILE LSRPOOL parameter to LSRPOOL(NONE), and then apply the change to the resource definition group of VISION:Inform under CICS.
3. Back up the foreground library.
4. In the LBRESTOR job in the INFORM.JCL PDS, using only steps DEFFG and RESTFG, change the VSAM DEFINE CLUSTER to specify SHAREOPTIONS(3,3). Add a BUFFERSPACE parameter, specifying a value that is exactly two times the specified control interval size.
5. Run the Restore Utility, and then bring the foreground library back online.

Note: The INFORM.JCL library contains 3 members (DFHCSD2, LBREST2, and INIT2), which reflect the parameters described above. Use these jobs instead of DFHCSDUP, LBRESTOR, and INIT, respectively, to accomplish concurrent update access to the Foreground Library.

Special Considerations with Multiple Update Access

If you make the changes for multiple update access to the foreground library, be aware of the importance of the PARMBLK PARMS macro ENQNAME parameter.

- The value specified in ENQNAME is used for the MVS major ENQ Name parameter for all ENQ/DEQ calls for resource control on the foreground library (and communication file).
- If the file is to be updated by jobs or application running concurrently on more than one CPU, it is this value that must be registered with the Global Resource Sharing mechanism used in your shop.

Another factor that can affect the proper functioning of the method used to control concurrent access to the VISION:Inform foreground library and communication file is the use of third-party VSAM Optimization packages. These are applications that are used by the Operations Staff to optimize access to VSAM files through the use of sophisticated buffering and I/O control techniques.

Do not use these VSAM optimization packages with VISION:Inform and its VSAM access to the foreground library and communication file. Doing so will result in the loss of data integrity to the contents of these files.

Maintenance and Support

During the life of a VISION:Inform release, PTFs, formerly known as System Modifications (SMs), are developed to enhance, maintain, and customize the product and components. Any problems that arise are fixed by PTFs (SMs), which are numbered in sequence as they are developed for each release, beginning with 200. There are other patches called APARs, formerly known as Restricted System Modifications (RSMs), that are special customizations to the product and do not apply to all sites. The user should always review the APAR description carefully before applying them to a system.

The PTFs and APARs are identified by component and number using the following format:

ccxnnnn

where:

ccx is one of these component/environment identifiers:

BL0	VISION:Builder engine
CL0	COMLIB component
WB0	Definition Processor
INC	VISION:Inform for CICS
INI	VISION:Inform for IMS

nnnn is one of these modification number identifiers:

0001 to 0199	Numbers assigned to APARs, special patches
0200 to 0500	Numbers assigned to PTFs, general patches

Examples: BL00200, BL00125, CL00215, WB00201, INC0210.

Maintenance – Installing the PTFs and APARs

All PTFs and APARs are installed to VISION:Inform and its components under the control of SMP/E. The SMP/E process for handling PTFs and APARs has the following basic steps:

1. Record and save the PTF or APAR into the global zone using the RECEIVE command.
2. Use the APPLY command to install the PTF or APAR to the target libraries.
3. Use the ACCEPT command to install the PTF or APAR into the distribution libraries.

Note: Once an APAR or PTF is accepted, you must refresh your working copy of the VISION:Inform load library. Use job INFCOPY1 or INFCOPY2 from the INFORM.R40.SMPCNTL dataset to refresh the load library. Any customizations (PARMBLK, M4PARAMS, user exits) should be re-applied at this time as well. Do not neglect to run the TRANSFER utility from INFORM.JCL if you are using a separate CICS online program library.

The PTFs are general modifications that are designed for all users and all systems. These should always be installed into VISION:Inform and its components in order to keep the system up to date. PTFs should be installed in both the target and distribution libraries.

The APARs are special modifications that are designed for unique situations. The APARs do not apply to all users and systems. The control statements in the PDS data set (INFORM.R40.SMPCNTL) contain comments for each item that describe the situation addressed by the PTF or APAR. Review the description of any APAR you are considering for your system. If you have any questions, concerns, or if you just need more information regarding an APAR, contact Computer Associates Technical Support on the Internet at esupport.ca.com. Technical support is available 24 hours a day, 7 days a week.

When installing APARs, there may be some time between the APPLY to the target libraries and the ACCEPT to the distribution libraries. You should take this time to evaluate whether the APAR satisfies the special need for your system. If you decide that the APAR is not appropriate, you can use an SMP/E RESTORE command to remove the APAR from the target libraries. Additionally, you can use an SMP/E REJECT command to remove the APAR for the global zone.

Note: Once you ACCEPT an element, such as APAR or PTF, into the distribution libraries, there is no direct method for restoring the previous version of an element in your target libraries.

The PDS data set (INFORM.R40.SMPCNTL) contains some model jobs for performing the various maintenance activities described above. Here are the member names and their functions:

Member Names	Description
SMPJOB04	RECEIVE a PTF or APAR into the Global Zone and Libraries
SMPJOB06	APPLY a PTF or APAR into the Target Libraries
SMPJOB08	ACCEPT a PTF or APAR into the Distribution Libraries
SMPREMOV	RESTORE (remove) a PTF or APAR from the Target Libraries
SMPREJCT	REJECT (remove) a PTF or APAR from the Global Zone and Libraries

There are other tools and facilities that are available for invoking SMP/E commands and functions. Any of these will work because VISION:Inform only uses the standard SMP/E processes. The Systems Group at each site has their favorite tools and procedures, and any of those should work just fine.

Note: The APAR runs get a return code of 4 from APPLY and ACCEPT runs because they do not contain prerequisites for other PTFs and APARs.

When PTF runs are performed after an APAR has been processed, they get a return code of 4 because the PTF will not contain prerequisites for any APARs. Remember, the APARs can be identified by their number, which is in the range of *ccx0001* to *ccx0199*, where *ccx* is the component/environment identifier.

After applying the maintenance and transferring the modules to the CICS program library, refresh the copies of the VISION:Inform load modules in the CICS region using the CEMT SET PROGRAM command.

Support – Problem Reporting

When a problem is encountered, contact Computer Associates Technical Support to have a representative review your situation. You must provide details to the representative concerning what actions were being performed at the time the problem occurred. Any information on recreating the problem is very useful. Capture any messages or information displayed and communicate these messages to the support representative.

Contact Computer Associates Technical Support at esupport.ca.com. Technical support is available 24 hours a day, 7 days a week.

VISION:Inform Problem Reporting

Depending upon the type of problem experienced, you may be asked to provide some combination of the following items:

- A description of events leading up to the problem
- A list of current APARS/PTFS
- The query or task source
- The file definition
- Security profiles
- Report output
- SYSUDUMP (full dump, unprocessed by dump handling programs such as Abend-Aid™)
- VISION:Inform trace output
- The VISION:Inform log file
- JOB Control and JES listings and messages
- Relevant message from CICS Master Terminal
- 3270 Screen Print

Client Software Information

Note: Client software includes VISION:Journey for DOS with VISION:Inform, and VISION:Journey for Windows with VISION:Inform.

If the problem is with the flow of the client software, include a list of the keystrokes that precede the error. When the problem is not easy to recreate or requires a large amount of data entry or retrieval, provide disk copies or file transfers.

VISION:Builder and COMLIB Problem Reporting

For VISION:Builder and COMLIB problems, a Diagnostic Information Page may appear as part of the termination handling and message MK4S701 starts the display. (This message would be located in the VISION:Inform log file for the Background Processor run in which the problem occurred.) Save the information on this display to send to your Computer Associates Technical Support Representative. In some cases, a complete SYSUDUMP taken at the time the problem occurred may be needed to help determine the reason for the error.

Definition Processor Problem Reporting

For Definition Processor problems, gather as much of the following information as possible:

- The objective of your session.
- The name, identification, or description of the last valid panel you saw before the problem.
- Any error messages that were displayed.
- Information from the unexpected error display, if applicable.
- Any other information you feel would be useful in recreating the situation.

Panel Identification

The upper-left corner of every Definition Processor data entry panel contains a panel identification name. This name is used to reference the panels in the Definition Processor documentation. This identification name is not the name of the panel member in your panel library.

To view the actual member name of a panel, type `PANELID` on the ISPF command line. To turn this feature off and return to the panel identification name, type `PANELID`. The `PANELID` command toggles between on and off.

Unexpected Error Panel

If the Definition Processor abnormally terminates or detects a serious internal error, it displays an Unexpected Error panel. This panel contains information that is always useful when trying to track down the cause of the problem.

If you encounter this screen, obtain a screen print of the display before continuing. If you cannot obtain a screen print, record the following information:

- Error messages on the display.
- PSW value.
- The contents of registers 12, 14, and 15.

Use the Help Primary Command to display any message that might be pending.

JCL Samples

These members are contained in the INFORM.JCL data set.

Note: Green text indicates hypertext links. Click on the page number to proceed to the listing. DL/I is shown as DLI in the product.

Member	Description	Page
ALLOC	JCL to allocate the Background Processor log and work files	A-5
BMSASMLK	JCL to assemble and link the VISION:Inform BMS mapsets	A-7
BUILDRQS	JCL for the VISION:Builder Quick Start Utility This Source Statement Retrieval [SSR] procedure retrieves definitions from a background library and stores them in the definition library	A-9
CEXECDLI	JCL to run the Background Processor with access to DL/I databases and DB2 tables with the Call Attach Facility	A-10
CEXECOS	JCL to run the Background Processor with access to non-DL/I databases and DB2 tables with the Call Attach Facility	A-13
CINFOSB	JCL to run the Batch Simulator with access to non-DL/I database and DB2 tables with the Call Attach Facility	A-15
CINFOSBI	JCL to run the Batch Simulator with access to DL/I databases and DB2 tables with the Call Attach Facility	A-17
CMBACKUP	JCL to back up the communication file	A-19
CMRESTOR	JCL to restore the communication file	A-20
CNVRTDEF	JCL to run the Definition Convert Utility to convert definitions from previous release formats to the Definition Processor format	A-21

Member	Description	Page
COBOLQS	JCL to run the COBOL Quick Start Utility to generate a VISION:Inform file definition from a COBOL copybook	A-22
CREATFIN	JCL to create the VSAM FINANCE test file	A-23
CREATUTL	JCL to create the utility library for the Definition Processor	A-24
DB2CALL	JCL to assemble and prepare the VISION:Inform DB2 module for the DB2 CALL Attach Facility	A-25
DB2IMS	JCL to assemble and prepare the VISION:Inform DB2 module for the DB2 IMS Attach Facility	A-26
DB2QS	JCL to run the DB2 Quick Start Utility to convert DB2 table definitions into VISION:Inform file definitions	A-27
DB2TSO	JCL to assemble and prepare the VISION:Inform DB2 module for the DB2 TSO Attach Facility	A-28
DFHCSDUP	JCL to define VISION:Inform to CICS	A-29
DFHCSD2	Alternate JCL to define VISION:Inform to CICS	A-32
EXECCLI	JCL to run the Background Processor with access to DL/I databases (no DB2 access)	A-36
EXECOS	JCL to run the Background Processor with access to non-DL/I databases (no DB2 access)	A-39
GLOSSARY	JCL to obtain a hard copy glossary listing for a data view	A-41
INFOSB	JCL to run the Batch Simulator with access to non-DL/I databases (no DB2 access)	A-42
INFOSBI	JCL to run the Batch Simulator with access to DL/I databases (no DB2 access)	A-44
INIT	JCL to initialize the foreground library, the communication file, and the background library	A-46
INIT2	Alternate JCL to initialize the foreground library, the communication file, and the background library	A-49
INQRYQS	JCL to run the VISION:Inquiry Quick Start Utility to convert VISION:Inquiry file definitions into VISION:Inform file definition format.	A-52
LBBACKUP	JCL to back up the foreground and background libraries	A-53
LBRESTOR	JCL to restore the foreground and background libraries	A-55
LBREST2	Alternate JCL to restore the foreground and background libraries	A-57

Member	Description	Page
LIBCOPY	JCL to copy items of type QUERY or STMTS from one foreground library to another foreground library	A-59
LINKLIB	JCL to link edit the CA-Librarian interface modules with the COBOL Quick Start Utility	A-60
LINKLIBR	JCL to link edit the CA-Librarian interface with the VISION:Results Quick Start Utility	A-61
LINKPAN	JCL to link edit the CA-Panvalet interface modules with the COBOL Quick Start Utility	A-62
LINKPANR	JCL to link edit the CA-Panvalet interface with the VISION:Results Quick Start Utility	A-63
LSXASMLK	JCL to assemble and link a user written INFREPT exit routine	A-64
M4PASMLK	JCL to assemble and link the Background Processor parameter module M4PARAMS	A-65
MERGDEF	JCL to convert and copy all the file and logical data view definitions from the background library to the foreground library (synchronize background and foreground libraries)	A-66
MERGHLP	JCL to convert the field descriptions from older release format	A-67
PMBASMLK	JCL to assemble and link the VISION:Inform parameter module PARMBLK	A-69
PRXASMLK	JCL to assemble and link a user written profile exit routine	A-70
PURGUTIL	JCL to run the Communication File Purge Utility	A-71
RESULTQS	JCL to run the VISION:Results Quick Start Utility to convert VISION:Results file definitions into VISION:Inform format	A-73
TEXECDLI	JCL to run the Background Processor with access to DL/I databases and DB2 tables with the TSO Attach Facility	A-74
TEXECOS	JCL to run the Background Processor with access to non-DL/I databases and DB2 tables with the TSO Attach Facility	A-77

Member	Description	Page
TINFOSB	JCL to run the Batch Simulator with Access to Non-DLI Databases and DB2 Tables Using the TSO Attach Facility	A-80
TINFOSBI	JCL to run the Batch Simulator with access to DL/I databases and DB2 tables with the TSO Attach Facility	A-82
TRANSFER	JCL to transfer the online program modules from the installation load library to the CICS online program load library	A-84

ALLOC

```

// * MEMBER ALLOC 00010000
// ***** 00020000
// * THIS PROCEDURE ALLOCATES FOUR FILES FOR THE BACKGROUND PROCESSOR * 00030000
// * AND SHOULD BE RUN ONE TIME FOR EACH BACKGROUND PROCESSOR USED, * 00040000
// * SPECIFYING UNIQUE NAMES FOR EACH PROCESSOR'S DATA SETS: * 00050000
// * * 00060000
// * A) 1 EXTERNAL LOG FILE (INFLOG) * 00070000
// * B) 3 WORK FILES (M4REPO, M4REPI, M4SORT) * 00080000
// ***** 00090000
// ALLOC PROC INFLOG=, 00100000
// LOGBLK=, 00110000
// M4REPO=, 00120000
// M4REPI=, 00130000
// REPBLK=, 00140000
// REPLREC=, 00150000
// M4SORT=, 00160000
// PRIM=, 00170000
// SEC=, 00180000
// DUNIT=, 00190000
// VOL= 00200000
// STEP1 EXEC PGM=IEFBRI4 00210000
// INFLOG DD DSN=&INFLOG, DISP=(NEW,CATLG),UNIT=&DUNIT, 00220000
// DCB=(RECFM=FB,LRECL=200,BLKSIZE=&LOGBLK,DSORG=PS), 00230000
// SPACE=(TRK,(20,10)),VOL=SER=&VOL 00240000
// M4REPO DD DSN=&M4REPO, DISP=(,CATLG),VOL=SER=&VOL, 00250000
// DCB=(BLKSIZE=&REPBLK,LRECL=&REPLREC,RECFM=VB,DSORG=PS), 00260000
// UNIT=&DUNIT,SPACE=(CYL,(&PRIM,&SEC)) 00270000
// M4REPI DD DSN=&M4REPI, DISP=(,CATLG),VOL=SER=&VOL, 00280000
// DCB=(BLKSIZE=&REPBLK,LRECL=&REPLREC,RECFM=VB,DSORG=PS), 00290000
// UNIT=&DUNIT,SPACE=(CYL,(&PRIM,&SEC)) 00300000
// M4SORT DD DSN=&M4SORT, DISP=(,CATLG),UNIT=&DUNIT,SPACE=(TRK,1), 00310000
// VOL=SER=&VOL 00320000
// PEND 00330000
// ***** 00340000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00350001
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00360001
// * * 00370000
// * INFLOG - DSNAME FOR THE BACKGROUND PROCESSOR LOG FILE. * 00380000
// * LOGBLK - BLOCK SIZE FOR LOG FILE (MUST BE A MULTIPLE OF 200). * 00390000
// * M4REPO - DSNAME FOR THE M4REPO FILE. * 00400000
// * M4REPI - DSNAME FOR THE M4REPI FILE. * 00410000
// * REPBLK - BLOCK SIZE FOR BOTH M4REPO AND M4REPI. * 00420000
// * REPLREC - LOGICAL RECORD LENGTH FOR BOTH M4REPO AND M4REPI. * 00430000
// * *** N O T E *** * 00440000
// * THE "REPBLK" AND "REPLREC" VALUES MUST CORRESPOND * 00450000
// * EXACTLY TO THE "REPOSIZ" PARAMETER SPECIFICATION IN * 00460000
// * MEMBER M4PARAMS IN 'INFORM.SRCLIB'. "REPLREC" MUST * 00470001
// * BE 4 LESS THAN "REPBLK". THE VALUES SPECIFIED * 00480001
// * IN THE SAMPLE INVOCATION BELOW MATCH THE DEFAULT * 00490000
// * VALUES AS DELIVERED WITH THE SYSTEM. * 00500000
// * M4SORT - DSNAME FOR THE M4SORT FILE. * 00510000
// * PRIM - PRIMARY ALLOCATION FOR M4REPO AND M4REPI. * 00520000
// * SEC - SECONDARY ALLOCATION FOR M4REPO AND M4REPI. * 00530000
// * DUNIT - TYPE OF DISK UNIT ASSIGNED FOR THE FILES. * 00540000
// * VOL - VOLSER OF THE DISK UNIT CONTAINING THE FILES. * 00550000
// ***** 00560000
// ALLOC EXEC ALLOC, 00570000
// INFLOG='INFORM.INFLOG', 00580001
// LOGBLK=200, 00590000

```

Figure A-1 ALLOC — JCL to Allocate the Background Processor Log and Work Files (Page 1 of 2)

```
//      M4REPO='INFORM.M4REPO',      00600001
//      M4REPI='INFORM.M4REPI',      00610001
//      REPBLK=4096,                  00620000
//      REPLREC=4092,                 00630000
//      M4SORT='INFORM.M4SORT',      00640001
//      PRIM=5,                       00650000
//      SEC=10,                       00660000
//      DUNIT=SYSDA,                  00670000
//      VOL=XXXXXX                    00680000
```

Figure A-1 ALLOC — JCL to Allocate the Background Processor Log and Work Files (Page 2 of 2)

BMSASMLK

```

/* MEMBER BMSASMLK                                00010000
/******                                00020000
/* THIS PROCEDURE ASSEMBLES AND LINKS BMS MAPSETS.  * 00030000
/******                                00040000
//BMSASMLK PROC SRCMBR=,                          00050000
//      MBR=,                                      00060000
//      SRCLIB=,                                  00070000
//      CICSMA=,                                  00080001
//      LOADLIB=                                  00090001
//ASM      EXEC PGM=ASMA90,REGION=2M,PARM='OBJECT,NODECK,XREF (SHORT) ' 00100007
//SYSLIB   DD DSN=&CICSMA,DISP=SHR                00110000
//SYSUT1   DD UNIT=SYSDA,SPACE=(CYL,(4,2))        00120007
//SYSLIN   DD UNIT=SYSDA,SPACE=(CYL,(4,2)),DISP=(,PASS), 00130007
//      DCB=(RECFM=FB,BLKSIZE=400)              00140000
//SYSPRINT DD SYSOUT=*                            00150000
//SYSUNCH  DD DUMMY                              00151007
//SYSIN    DD DISP=SHR,DSN=&SRCLIB(&SRCMBR)        00160002
//LKED     EXEC PGM=HEWL,COND=(0,LT,ASM),REGION=2M, 00170007
//      PARM='LIST,LET,XREF'                    00180000
//SYSUT1   DD UNIT=SYSDA,SPACE=(1024,(100,10))    00190000
//SYSLMOD  DD DISP=SHR,DSN=&LOADLIB(&MBR)         00200002
//SYSPRINT DD SYSOUT=*                            00210000
//SYSLIN   DD DISP=(OLD,DELETE),DSN=*.ASM.SYSLIN  00220002
//      PEND                                    00230000
/******                                00240000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.  * 00250001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:              * 00260001
/** SRCMBR - THE MEMBER NAME OF THE BMS SOURCE STATEMENTS. * 00270000
/** MBR - THE NAME OF THE MAPSET TO BE GENERATED.        * 00280001
/** SRCLIB - THE INFORM SOURCE LIBRARY.                   * 00290001
/** CICSMA - THE CICS MACRO LIBRARY.                      * 00300001
/** LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.       * 00310000
/******                                00320001
//MAPSET0 EXEC BMSASMLK, SRCMBR=INFLGON, MBR=INFORM0, 00330000
//      SRCLIB='INFORM.SRCLIB',                 00340000
//      CICSMA='CICS.MACLIB',                    00350001
//      LOADLIB='INFORM.LOADLIB'                 00360000
//MAPSET1 EXEC BMSASMLK, SRCMBR=INFMENU, MBR=INFORM1, 00370001
//      SRCLIB='INFORM.SRCLIB',                 00380000
//      CICSMA='CICS.MACLIB',                    00390001
//      LOADLIB='INFORM.LOADLIB'                 00400000
//MAPSET2 EXEC BMSASMLK, SRCMBR=INFMSIA, MBR=INFORM2, 00410001
//      SRCLIB='INFORM.SRCLIB',                 00420000
//      CICSMA='CICS.MACLIB',                    00430001
//      LOADLIB='INFORM.LOADLIB'                 00440000
//MAPSET3 EXEC BMSASMLK, SRCMBR=INFMSRP, MBR=INFORM3, 00450001
//      SRCLIB='INFORM.SRCLIB',                 00460000
//      CICSMA='CICS.MACLIB',                    00470001
//      LOADLIB='INFORM.LOADLIB'                 00480000
//MAPSET4 EXEC BMSASMLK, SRCMBR=INFQORY, MBR=INFORM4, 00490001
//      SRCLIB='INFORM.SRCLIB',                 00500000
//      CICSMA='CICS.MACLIB',                    00510001
//      LOADLIB='INFORM.LOADLIB'                 00520000
//MAPSET5 EXEC BMSASMLK, SRCMBR=INFERRR, MBR=INFORM5, 00530001
//      SRCLIB='INFORM.SRCLIB',                 00540000
//      CICSMA='CICS.MACLIB',                    00550001
//      LOADLIB='INFORM.LOADLIB'                 00560000
//MAPSET6 EXEC BMSASMLK, SRCMBR=INFHLP, MBR=INFORM6,  00570001
//      SRCLIB='INFORM.SRCLIB',                 00580000
//      CICSMA='CICS.MACLIB',                    00590001
//      LOADLIB='INFORM.LOADLIB'                 00600000
//MAPSET7 EXEC BMSASMLK, SRCMBR=INFHLPQ, MBR=INFORM7, 00610001
//      SRCLIB='INFORM.SRCLIB',                 00620000
//      CICSMA='CICS.MACLIB',                    00630001
//      CICSMA='CICS.MACLIB',                    00640000

```

Figure A-2 BMSASMLK — JCL to Assemble and Link the VISION:Inform BMS Mapsets (Page 1 of 2)

```

//          LOADLIB='INFORM.LOADLIB'                                00650001
//MAPSET8 EXEC BMSASMLK, SRCMBR=INFHLPE, MBR=INFORM8,                00660000
//          SRCLIB='INFORM.SRCLIB',                                00670001
//          CICSMACT='CICS.MACLIB',                                00680000
//          LOADLIB='INFORM.LOADLIB'                                00690001
//MAPSET9 EXEC BMSASMLK, SRCMBR=INFEDPF, MBR=INFORM9,                00700000
//          SRCLIB='INFORM.SRCLIB',                                00710001
//          CICSMACT='CICS.MACLIB',                                00720000
//          LOADLIB='INFORM.LOADLIB'                                00730001
//MAPSETA EXEC BMSASMLK, SRCMBR=INFSUBM, MBR=INFORMA,                00740000
//          SRCLIB='INFORM.SRCLIB',                                00750001
//          CICSMACT='CICS.MACLIB',                                00760000
//          LOADLIB='INFORM.LOADLIB'                                00770001
//MAPSETB EXEC BMSASMLK, SRCMBR=INFHLSE, MBR=INFORMB,                00780000
//          SRCLIB='INFORM.SRCLIB',                                00790001
//          CICSMACT='CICS.MACLIB',                                00800000
//          LOADLIB='INFORM.LOADLIB'                                00810001
//MAPSETD EXEC BMSASMLK, SRCMBR=INFESUR, MBR=INFORMD,                00820000
//          SRCLIB='INFORM.SRCLIB',                                00830001
//          CICSMACT='CICS.MACLIB',                                00840000
//          LOADLIB='INFORM.LOADLIB'                                00850001
//MAPSETE EXEC BMSASMLK, SRCMBR=INFHLED, MBR=INFORME,                00860000
//          SRCLIB='INFORM.SRCLIB',                                00870001
//          CICSMACT='CICS.MACLIB',                                00880000
//          LOADLIB='INFORM.LOADLIB'                                00890001
//MAPSETF EXEC BMSASMLK, SRCMBR=INFHLEP, MBR=INFORMF,                00900000
//          SRCLIB='INFORM.SRCLIB',                                00910001
//          CICSMACT='CICS.MACLIB',                                00920000
//          LOADLIB='INFORM.LOADLIB'                                00930001
//MAPSETH EXEC BMSASMLK, SRCMBR=INFEDFL, MBR=INFORMH,                00940003
//          SRCLIB='INFORM.SRCLIB',                                00950003
//          CICSMACT='CICS.MACLIB',                                00960003
//          LOADLIB='INFORM.LOADLIB'                                00970003
//MAPSETK EXEC BMSASMLK, SRCMBR=INFEDDT, MBR=INFORMK,                00980003
//          SRCLIB='INFORM.SRCLIB',                                00990003
//          CICSMACT='CICS.MACLIB',                                01000003
//          LOADLIB='INFORM.LOADLIB'                                01010003
//MAPSETN EXEC BMSASMLK, SRCMBR=INFEDVW, MBR=INFORMN,                01020006
//          SRCLIB='INFORM.SRCLIB',                                01030004
//          CICSMACT='CICS.MACLIB',                                01040004
//          LOADLIB='INFORM.LOADLIB'                                01050004

```

Figure A-2 BMSASMLK — JCL to Assemble and Link the VISION:Inform BMS Mapsets (Page 2 of 2)

BUILDRQS

```

/* MEMBER BUILDRQS                                00010004
/******                                00020003
/* PROCEDURE TO RETRIEVE DEFINITION SOURCE STATEMENTS FROM A * 00030003
/* BACKGROUND LIBRARY, AND STORE THEM AS A MEMBER IN THE DEFINITION * 00040003
/* LIBRARY. * 00050003
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00060003
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00070003
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00080003
/* CONCATENATED TO THE SSR.STEPLIB DD STATEMENTS. * 00090003
/******                                00100003
/*SSR      PROC LOADLIB=,                                00110000
/*          BGLIB=,                                00120001
/*          DEFLIB=,                                00130001
/*          MEMBER=                                00140001
/*SSR      EXEC PGM=MARKIV,REGION=2048K                00150001
/*STEPLIB DD DISP=SHR,DSN=&LOADLIB                    00160002
/*M4LIST DD SYSOUT=*                                00170001
/*M4LIB DD DISP=SHR,DSN=&BGLIB                        00180001
/*M4SSOUT DD DISP=OLD,DSN=&DEFLIB(&MEMBER)             00190002
/*M4INPUT DD DUMMY                                00200001
/*          PEND                                00210001
/******                                00220003
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00230003
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00240003
/* * 00250003
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00260003
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00270003
/* DEFLIB - THE INFORM DEFINITION LIBRARY. * 00280003
/* MEMBER - MEMBER NAME FOR THE DEFINITION YOU ARE GENERATING. * 00290003
/* * 00300003
/* YOU MUST ALSO PROVIDE THE APPROPRIATE SYSIN DATA IN THE * 00310003
/* SSR.M4INPUT DD OVERRIDE STMT. * 00320003
/******                                00330003
/*GETSRC EXEC SSR,                                00340000
/*          LOADLIB='INFORM.LOADLIB',                00350001
/*          BGLIB='INFORM.BGLIB',                    00360001
/*          DEFLIB='INFORM.DEFLIB',                  00370001
/*          MEMBER='DEFNAME'                          00380000
/*SSR.M4INPUT DD *                                00390000
SSR      RC                                00400000
          B      S
          CTOPRDEFNAME                        00410000

```

Figure A-3 BUILDRQS — JCL for the VISION:Builder Quick Start Utility (Procedure for Source Statement Retrieval (SSR) of Definitions in a Background Library)

CEXECDLI

```

/* * MEMBER CEXECDLI                                00010001
/* *****                                00020001
/* * PROCEDURE TO RUN THE BACKGROUND PROCESSOR FOR DLI AND DB2 ACCESS. * 00030001
/* * ** NOTE ** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00040001
/* * THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00050001
/* * ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00060001
/* * CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00070001
/* *****                                00080001
//EXECDLI PROC RGN=,                                00090001
//          PROG=,                                  00100001
//          RESLIB=,                                00110001
//          PSBLIB=,                                00120001
//          DBDLIB=,                                00130001
//          PSB=,                                    00140001
//          LOADLIB=,                                00150001
//          SORTLIB=,                                00160001
//          RS1LOAD=,                                00170001
//          DB2LOAD=,                                00180001
//          FGLIB=,                                  00190001
//          INFCOM=,                                 00200001
//          INFLOG=,                                 00210001
//          BGLIB=,                                  00220001
//          REPORTS=,                                00230001
//          RUNCNTL=,                                00240001
//          HCSCFG=,                                 00250003
//          HTMLTPL=,                                00260003
//          M4REPO=,                                  00270001
//          M4SORT=,                                  00280001
//          M4REPI=,                                  00290001
//VER          EXEC PGM=IDCAMS,REGION=512K           00300001
//SYSPRINT DD SYSOUT=*                               00310001
//FGLIB DD DISP=SHR,DSN=&FGLIB                       00320001
//BGLIB DD DISP=SHR,DSN=&BGLIB                       00330001
//INFCOM DD DISP=SHR,DSN=&INFCOM                     00340001
//INFBG EXEC PGM=DFSRR00,REGION=&RGN,PARM=(DLI,&PROG,&PSB) 00350001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                   00360001
//          DD DISP=SHR,DSN=&RS1LOAD                 00370001
//          DD DISP=SHR,DSN=&DB2LOAD                 00380001
//          DD DISP=SHR,DSN=&RESLIB                   00390001
//IMS DD DISP=SHR,DSN=&PSBLIB                       00400001
//          DD DISP=SHR,DSN=&DBDLIB                   00410001
//DFSRESLB DD DISP=SHR,DSN=&RESLIB                   00420001
//IEFRDER DD DUMMY                                  00430001
//M4LIB DD DISP=SHR,DSN=&BGLIB                       00440001
//INFORMLF DD DISP=SHR,DSN=&FGLIB                     00450001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                   00460001
//M4REPO DD DISP=SHR,DSN=&M4REPO                     00470001
//SORTIN DD DISP=SHR,DSN=&M4REPO                     00480001
//M4SORT DD DISP=SHR,DSN=&M4SORT                     00490001
//SYSIN DD DISP=SHR,DSN=&M4SORT                     00500001
//M4REPI DD DISP=SHR,DSN=&M4REPI                     00510001
//SORTOUT DD DISP=SHR,DSN=&M4REPI                     00520001
//SORTMSG DD SYSOUT=*                               00530001
//INFLOG DD DISP=OLD,DSN=&INFLOG                     00540001
//INFREPT DD DISP=OLD,DSN=&REPORTS                   00550001
//SYSOUT DD SYSOUT=*                               00560001
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                   00570001
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)       00580001
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)       00590001
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)       00600001
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                     00610003
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL                 00620003
//INFIN DD DISP=SHR,DSN=&RUNCNTL                     00630001

```

Figure A-4 CEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the Call Attach Facility (Page 1 of 3)

```

//          PEND 00640001
//***** 00650001
//* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE * 00660001
//* YOU RUN THIS PROCEDURE, SPECIFY: * 00670001
//* * 00680001
//* RGN - THE REGION SIZE. THE DEFAULT IS 1800K. * 00690001
//* PROG - BACKGROUND PROCESSOR LOAD MODULE. DEFAULT IS INFORMDE. * 00700001
//* RESLIB - IMS RESLIB. THE DEFAULT IS IMSVS.RESLIB. * 00710001
//* PSBLIB - THE PSB LIBRARY. * 00720001
//* DBDLIB - THE DBD LIBRARY. * 00730001
//* PSB - THE PSB NAME FOR IMS DATABASE ACCESS. * 00740001
//* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00750001
//* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00760001
//* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE. * 00770001
//* DB2LOAD - THE DB2 LOAD LIBRARY. * 00780001
//* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00790001
//* INFCOM - THE INFORM COMMUNICATION FILE. * 00800001
//* INFLOG - THE INFORM HARDCOPY LOG FILE. * 00810001
//* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00820001
//* REPORTS - THE INFORM PRINTED REPORTS DATASET. * 00830001
//* RUNCNTL - THE DATASET CONTAINING THE BACKGROUND PROCESSOR CONTROL * 00840001
//* STATEMENTS. **** NOTE - MEMBER 'OSCNTL' FOUND IN * 00850001
//* DATASET "INFORM.SRCLIB" * 00860001
//* HAS SAMPLE CONTROL STATEMENTS. * 00870001
//* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00880003
//* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00890003
//* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00900004
//* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00910003
//* HTMPPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00920003
//* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00930003
//* THE INSTALLATION SOURCE LIBRARY. * 00940003
//* M4REPO - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE. * 00950001
//* M4SORT - BACKGROUND PROCESSOR SORT CONTROL OUTPUT, * 00960001
//* - AND SORT CONTROL INPUT. * 00970001
//* M4REPI - BACKGROUND PROCESSOR INPUT, SORT OUTPUT FILE. * 00980001
//***** 00990001
//EXECDLI EXEC EXECDLI, 01000001
// RGN=1800K, 01010001
// PROG=INFORMDE, 01020001
// RESLIB='IMSVS.RESLIB', 01030001
// PSBLIB='USER.PSBLIB', 01040001
// DBDLIB='USER.DBDLIB', 01050001
// PSB='USERPSB', 01060001
// LOADLIB='INFORM.LOADLIB', 01070001
// SORTLIB='SYS1.SORTLIB', 01080001
// RS1LOAD='INFORM.RS1LIB', 01090001
// DB2LOAD='DB2.LOADLIB', 01100001
// FGLIB='INFORM.FGLIB', 01110001
// INFCOM='INFORM.INFCOM', 01120001
// INFLOG='INFORM.INFLOG', 01130001
// BGLIB='INFORM.BGLIB', 01140001
// REPORTS='INFORM.REPORTS', 01150001
// RUNCNTL='INFORM.SRCLIB(OSCNTL)', 01160001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', 01170003
// HTMPPTPL='INFORM.SRCLIB', 01180003
// M4REPO='INFORM.M4REPO', 01190001
// M4SORT='INFORM.M4SORT', 01200001
// M4REPI='INFORM.M4REPI' 01210001
//VER.SYSIN DD * 01220001
// VERIFY FILE(FGLIB) 01230001
// VERIFY FILE(BGLIB) 01240001
// VERIFY FILE(INFCOM) 01250001
//INFBG.DFSVSAMP DD * 01260001
8192,6 01270001
//***** 01280001
//* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 01290001
//* THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT: * 01300001
//* * 01310001
//* //INFBG.USERFILE DD ..... * 01320001

```

Figure A-4 CEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the Call Attach Facility (Page 2 of 3)

```
/** * 01330001
/** IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01340001
/** EACH SUBFILE WITH THE FOLLOWING FORMAT: * 01350001
/** * 01360001
/** //INFBG.USERSUBF DD ..... * 01370001
/** * 01380001
/** IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01390001
/** STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT: * 01400001
/** * 01410001
/** //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01420001
/******* 01430002
```

Figure A-4 CEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the Call Attach Facility (Page 3 of 3)

CEXECOS

```

/* MEMBER CEXECOS                                00010001
/******                                00020001
/* PROCEDURE TO RUN THE BACKGROUND PROCESSOR AGAINST NON-DLI * 00030001
/* WITH ACCESS TO DB2 TABLES. * 00040001
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00050001
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00060001
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00070001
/* CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00080001
/******                                00090001
//EXECOS PROC RGN=,                                00100001
//          LOADLIB=,                                00110001
//          SORTLIB=,                                00120001
//          RS1LOAD=,                                00130001
//          DB2LOAD=,                                00140001
//          FGLIB=,                                00150001
//          INFCOM=,                                00160001
//          INFLOG=,                                00170001
//          BGLIB=,                                00180001
//          REPORTS=,                                00190001
//          RUNCNTL=,                                00200001
//          HCSCFG=,                                00210003
//          HTMTPL=,                                00220003
//          M4REPO=,                                00230001
//          M4SORT=,                                00240001
//          M4REPI=,                                00250001
//VER EXEC PGM=IDCAMS,REGION=512K                    00260001
//SYSPRINT DD SYSOUT=*                                00270001
//FGLIB DD DISP=SHR,DSN=&FGLIB                        00280001
//BGLIB DD DISP=SHR,DSN=&BGLIB                        00290001
//INFCOM DD DISP=SHR,DSN=&INFCOM                      00300001
//INFBG EXEC PGM=INFORMBB,REGION=&RGN                00310001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                    00320001
//          DD DISP=SHR,DSN=&RS1LOAD                  00330001
//          DD DISP=SHR,DSN=&DB2LOAD                  00340001
//M4LIB DD DISP=SHR,DSN=&BGLIB                        00350001
//INFORMLF DD DISP=SHR,DSN=&FGLIB                     00360001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                    00370001
//M4REPO DD DISP=SHR,DSN=&M4REPO                      00380001
//SORTIN DD DISP=SHR,DSN=&M4REPO                      00390001
//M4SORT DD DISP=SHR,DSN=&M4SORT                      00400001
//SYSIN DD DISP=SHR,DSN=&M4SORT                      00410001
//M4REPI DD DISP=SHR,DSN=&M4REPI                      00420001
//SORTOUT DD DISP=SHR,DSN=&M4REPI                     00430001
//SORTMSG DD SYSOUT=*                                00440001
//INFLOG DD DISP=OLD,DSN=&INFLOG                      00450001
//INFREPT DD DISP=OLD,DSN=&REPORTS                    00460001
//SYSOUT DD SYSOUT=*                                00470001
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                    00480001
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)        00490001
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)        00500001
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)        00510001
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                     00520003
//M4HTBASE DD DISP=SHR,DSN=&HTMTPL                    00530003
//INFIN DD DISP=SHR,DSN=&RUNCNTL                      00540001
//          PEND                                00550001
/******                                00560001
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE * 00570001
/* YOU RUN THIS PROCEDURE, SPECIFY: * 00580001
/* * 00590001
/* RGN - THE REGION SIZE. THE DEFAULT IS 1800K. * 00600001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00610001
/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00620001

```

Figure A-5 CEXECOS — JCL to Run the Background Processor With Access to Non-DL/I Databases and DB2 Tables with the Call Attach Facility (Page 1 of 2)

```

/** RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE.      * 00630001
/** DB2LOAD - THE DB2 LOAD LIBRARY.                                  * 00640001
/** FGLIB - THE INFORM FOREGROUND LIBRARY.                           * 00650001
/** INFCOM - THE INFORM COMMUNICATION FILE.                          * 00660001
/** INFLOG - THE INFORM HARDCOPY LOG FILE.                           * 00670001
/** BGLIB - THE INFORM BACKGROUND LIBRARY.                           * 00680001
/** REPORTS - THE INFORM PRINTED REPORTS DATASET.                    * 00690001
/** RUNCNTL - THE DATASET CONTAINING THE BACKGROUND PROCESSOR INPUT  * 00700001
/** PARAMETERS. **** NOTE - SAMPLE CONTROL INPUT EXISTS IN          * 00710001
/**                                                                * 00720001
/**                                                                * 00730001
/** HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF        * 00740003
/** ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER        * 00750003
/** NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO              * 00760004
/** USED FOR THE HOST CONNECT SERVER WITH INTRACCESS.               * 00770003
/** HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML     * 00780003
/** TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS                * 00790003
/** THE INSTALLATION SOURCE LIBRARY.                                * 00800003
/** M4REPO - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE.       * 00810001
/** M4SORT - BACKGROUND PROCESSOR SORT CONTROL OUTPUT,              * 00820001
/** AND SORT CONTROL INPUT.                                         * 00830001
/** M4REPI - BACKGROUND PROCESSOR WORK FILE, SORT OUTPUT FILE.      * 00840001
/** *****                                                         * 00850001
//EXECOS EXEC EXECOS,RGN=1800K,                                     * 00860001
// LOADLIB='INFORM.LOADLIB',                                       * 00870001
// SORTLIB='SYS1.SORTLIB',                                         * 00880001
// RS1LOAD='INFORM.RS1LIB',                                         * 00890001
// DB2LOAD='DB2.LOADLIB',                                          * 00900001
// FGLIB='INFORM.FGLIB',                                           * 00910001
// INFCOM='INFORM.INFCOM',                                          * 00920001
// INFLOG='INFORM.INFLOG',                                          * 00930001
// BGLIB='INFORM.BGLIB',                                           * 00940001
// REPORTS='INFORM.REPORTS',                                        * 00950001
// RUNCNTL='INFORM.SRCLIB(OSCNTL)',                                  * 00960001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)',                                 * 00970003
// HTMPTPL='INFORM.SRCLIB',                                         * 00980003
// M4REPO='INFORM.M4REPO',                                          * 00990001
// M4SORT='INFORM.M4SORT',                                          * 01000001
// M4REPI='INFORM.M4REPI'                                          * 01010001
//VER.SYSIN DD *                                                  * 01020001
//    VERIFY FILE(FGLIB)                                           * 01030001
//    VERIFY FILE(BGLIB)                                           * 01040001
//    VERIFY FILE(INFCOM)                                           * 01050001
// *****                                                         * 01060001
/** INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 01070001
/** THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT:       * 01080001
/**                                                                * 01090001
/** //INFBG.USERFILE DD .....                                     * 01100001
/**                                                                * 01110001
/** IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01120001
/** EACH SUBFILE WITH THE FOLLOWING FORMAT:                         * 01130001
/**                                                                * 01140001
/** //INFBG.USERSUBF DD .....                                     * 01150001
/**                                                                * 01160001
/** IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD      * 01170001
/** STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:               * 01180001
/**                                                                * 01190001
/** //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS            * 01200001
// *****                                                         * 01210002

```

Figure A-5 CEXECOS — JCL to Run the Background Processor With Access to Non-DL/I Databases and DB2 Tables with the Call Attach Facility (Page 2 of 2)

CINFOSB

```

/* MEMBER CINFOSB                                00010002
/******                                00020000
/* RUN THE BATCH SIMULATOR WITH ACCESS TO NON-DLI DATABASES AND * 00030003
/* DB2 TABLES. * 00040003
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00050003
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00060003
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00070003
/* CONCATENATED TO THE INF.STEPLIB DD STATEMENTS. * 00080003
/******                                00090000
//INFOSB PROC RGN=,                                00100000
//          LOADLIB=,                                00110000
//          SORTLIB=,                                00120000
//          RS1LOAD=,                                00130000
//          DB2LOAD=,                                00140000
//          REPORTS=,                                00150001
//          INFCOM=,                                00160001
//          FGLIB=,                                00170000
//          HCSCFG=,                                00180004
//          HTMLTPL=,                                00190004
//          BGLIB=                                00200001
//VER EXEC PGM=IDCAMS,REGION=512K                    00210000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                    00220000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                    00230000
//BGLIB DD DISP=SHR,DSN=&BGLIB                        00240000
//SYSPRINT DD SYSOUT=*                                00250000
//INF EXEC PGM=INFORMSB,REGION=&RGN                    00260000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                    00270000
//          DD DISP=SHR,DSN=&RS1LOAD                    00280000
//          DD DISP=SHR,DSN=&DB2LOAD                    00290000
//M4LIB DD DISP=SHR,DSN=&BGLIB                        00300000
//M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2))                00310000
//SYSOUT DD SYSOUT=*                                00320000
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                    00330000
//SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA          00340000
//SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//SORTWK03 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//          UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02))          00370000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                    00380000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                    00390000
//INFPRINT DD SYSOUT=*                                00400000
//INFLIST DD SYSOUT=*                                00410000
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                      00420004
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL                    00430004
//INFREPT DD DISP=OLD,DSN=&REPORTS                    00440000
//          PEND                                00450000
//*****                                00460000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00470000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00480000
/* * 00490000
/* RGN - THE REGION SIZE (DEFAULT 1800K). * 00500001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00510001
/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00520001
/* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE. * 00530001
/* DB2LOAD - THE DB2 LOAD LIBRARY. * 00540001
/* REPORTS - THE DATASET FOR PRINTED REPORTS. * 00550001
/* INFCOM - THE INFORM COMMUNICATION FILE. * 00560001
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00570001
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00580004
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00590004
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00600004
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00610004
/* HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00620004
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00630004

```

Figure A-6 CINFOSB — JCL to Run the Batch Simulator With Access to Non-DL/I Database and DB2 Tables with the Call Attach Facility (Page 1 of 2)

```

/*          THE INSTALLATION SOURCE LIBRARY.          * 00640004
/* BGLIB    - THE INFORM BACKGROUND LIBRARY.          * 00650001
/****** 00660000
//INF      EXEC INFOSB,RGN=1800K,                      00670000
//          LOADLIB='INFORM.LOADLIB',                00680001
//          SORTLIB='SYS1.SORTLIB',                   00690000
//          RS1LOAD='INFORM.RS1LIB',                  00700001
//          DB2LOAD='DB2.LOADLIB',                    00710000
//          REPORTS='INFORM.REPORTS',                 00720001
//          INFCOM='INFORM.INFCOM',                   00730001
//          FGLIB='INFORM.FGLIB',                     00740001
//          HCSCFG='INFORM.SRCLIB(HCSCNFIG)',          00750004
//          HTMLTPL='INFORM.SRCLIB',                   00760004
//          BGLIB='INFORM.BGLIB'                      00770001
//VER.SYSIN DD *                                     00780000
//          VERIFY FILE(INFORMLF)                     00790000
//          VERIFY FILE(INFORMCF)                     00800000
//          VERIFY FILE(BGLIB)                        00810000
//***** 00820000
/* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 00830000
/* THE BATCH SIMULATOR HERE. USE THE FOLLOWING FORMAT:          * 00840000
/*          * 00850000
/* //INF.USERFILE DD ..... * 00860000
/*          * 00870000
/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 00880000
/* EACH SUBFILE WITH THE FOLLOWING FORMAT:                       * 00890000
/*          * 00900000
/* //INF.USERSUBF DD ..... * 00910000
/*          * 00920000
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD     * 00930000
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:              * 00940000
/*          * 00950000
/* //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS              * 00960000
//***** 00970000
/* PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE:        * 00980000
//***** 00990000
//INF.INFIN DD *                                                01000001
//          PLACE QUERY STATEMENTS HERE                        01010000

```

Figure A-6 CINFOSB — JCL to Run the Batch Simulator With Access to Non-DL/I Database and DB2 Tables with the Call Attach Facility (Page 2 of 2)

CINFOSBI

```

// * MEMBER CINFOSBI 00010003
// ***** 00020000
// * RUN THE BATCH SIMULATOR WITH ACCESS TO DLI DATABASES AND DB2 * 00030004
// * TABLES. * 00040004
// * *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00050004
// * THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00060004
// * ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00070004
// * CONCATENATED TO THE INF.STEPLIB DD STATEMENTS. * 00080004
// ***** 00090000
// INFOSB PROC RGN=, 00100000
// LOADLIB=, 00110000
// SORTLIB=, 00120000
// RS1LOAD=, 00130000
// DB2LOAD=, 00140000
// RESLIB=, 00150000
// PSBLIB=, 00160000
// DBDLIB=, 00170000
// PSB=, 00180000
// REPORTS=, 00190001
// INFCOM=, 00200000
// FGLIB=, 00210001
// BGLIB=, 00220000
// HCSCFG=, 00230005
// HTMLTPL=, 00240005
// PROG= 00250001
// VER EXEC PGM=IDCAMS,REGION=512K 00260000
// INFORMLF DD DISP=SHR,DSN=&FGLIB 00270000
// INFORMCF DD DISP=SHR,DSN=&INFCOM 00280000
// BGLIB DD DISP=SHR,DSN=&BGLIB 00290000
// SYSPRINT DD SYSOUT=* 00300000
// INF EXEC PGM=DFSRR00,REGION=&RGN,PARM='DLI,&PROG,&PSB' 00310001
// STEPLIB DD DISP=SHR,DSN=&LOADLIB 00320000
// DD DISP=SHR,DSN=&RESLIB 00330000
// DD DISP=SHR,DSN=&RS1LOAD 00340000
// DD DISP=SHR,DSN=&DB2LOAD 00350000
// IMS DD DISP=SHR,DSN=&PSBLIB 00360002
// DD DISP=SHR,DSN=&DBDLIB 00370002
// IEFRDER DD DUMMY 00380000
// DFSRESLB DD DISP=SHR,DSN=&RESLIB 00390002
// M4LIB DD DISP=SHR,DSN=&BGLIB 00400000
// M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2)) 00410000
// SYSOUT DD SYSOUT=* 00420000
// SORTLIB DD DISP=SHR,DSN=&SORTLIB 00430000
// SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA 00440000
// SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=sortwk01) 00450000
// SORTWK03 DD SPACE=(CYL,5,,CONTIG), 00460000
// UNIT=(SYSDA,SEP=(sortwk01,sortwk02)) 00470000
// INFORMLF DD DISP=SHR,DSN=&FGLIB 00480000
// INFORMCF DD DISP=SHR,DSN=&INFCOM 00490000
// INFPRINT DD SYSOUT=* 00500000
// INFLIST DD SYSOUT=* 00510000
// HCSCFG DD DISP=SHR,DSN=&HCSCFG 00520005
// M4HTBASE DD DISP=SHR,DSN=&HTMLTPL 00530005
// INFREPT DD DISP=OLD,DSN=&REPORTS 00540000
// PEND 00550000
// ***** 00560000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00570000
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00580000
// * * 00590000
// * RGN - THE REGION SIZE. (DEFAULT 1800K). * 00600001
// * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00610001
// * SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00620001
// * RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULES. * 00630001

```

Figure A-7 CINFOSBI — JCL to Run the Batch Simulator with Access to DL/I Databases and DB2 Tables with the Call Attach Facility (Page 1 of 2)

```

/** DB2LOAD - THE DB2 LOAD LIBRARY. * 00640001
/** RESLIB - THE IMS RESLIB (DEFAULT IMSVS.RESLIB). * 00650001
/** PSBLIB - THE PSB LIBRARY. * 00660001
/** DBDLIB - THE DBD LIBRARY. * 00670001
/** PSB - THE INFORM PSB NAME (DEFAULT INFOSB). * 00680001
/** REPORTS - THE DATASET FOR PRINTED REPORTS. * 00690001
/** INFCOM - THE INFORM COMMUNICATION FILE. * 00700001
/** FGLIB - THE INFORM FOREGROUND LIBRARY. * 00710001
/** BGLIB - THE INFORM BACKGROUND LIBRARY. * 00720001
/** HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00730005
/** ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER* 00740005
/** NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00750005
/** USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00760005
/** HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00770005
/** TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00780005
/** THE INSTALLATION SOURCE LIBRARY. * 00790005
/** PROG - THE BATCH SIMULATOR PROGRAM NAME (DEFAULT INFORMDL). * 00800001
/** ***** * 00810000
//INF EXEC INFOSB, 00820000
// RGN=1800K, 00830000
// RESLIB='IMSVS.RESLIB', 00840000
// LOADLIB='INFORM.LOADLIB', 00850001
// SORTLIB='SYS1.SORTLIB', 00860000
// RS1LOAD='INFORM.RS1LIB', 00870001
// DB2LOAD='DB2.LOADLIB', 00880000
// PSBLIB='USER.PSBLIB', 00890001
// DBDLIB='USER.DBDLIB', 00900001
// PSB=INFOSB, 00910000
// REPORTS='INFORM.REPORTS', 00920001
// INFCOM='INFORM.INFCOM', 00930001
// FGLIB='INFORM.FGLIB', 00940001
// BGLIB='INFORM.BGLIB', 00950001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', 00960005
// HTMLTPL='INFORM.SRCLIB', 00970005
// PROG=INFORMDL 00980001
//VER.SYSIN DD * 00990000
        VERIFY FILE(INFORMLF) 01000000
        VERIFY FILE(INFORMCF) 01010000
        VERIFY FILE(BGLIB) 01020000
//INF.DFSVSAMP DD * 01030000
8192,6 01040000
//***** 01050000
/** INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 01060000
/** THE BATCH SIMULATOR HERE. USE THE FOLLOWING FORMAT: * 01070000
/** * 01080000
/** //INF.USERFILE DD ..... * 01090000
/** * 01100000
/** IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01110000
/** EACH SUBFILE WITH THE FOLLOWING FORMAT: * 01120000
/** * 01130000
/** //INF.USERSUBF DD ..... * 01140000
/** * 01150000
/** IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01160000
/** STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT: * 01170000
/** * 01180000
/** //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01190000
//***** 01200000
/** PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE: * 01210000
//***** 01220000
//INF.INFIN DD * 01230001
        PLACE QUERY STATEMENTS HERE 01240000

```

Figure A-7 CINFOSBI — JCL to Run the Batch Simulator with Access to DL/I Databases and DB2 Tables with the Call Attach Facility (Page 2 of 2)

CMBACKUP

```

/* MEMBER CMBACKUP                                00010000
/******                                           00020000
/* THIS PROCEDURE CREATES A BACKUP COPY OF THE COMMUNICATIONS * 00030001
/* FILE ON TAPE OR DISK, DEFAULTING TO TAPE. * 00040001
/******                                           00050000
//CMBACKUP PROC INFCOM=,                          00060000
//      LOADLIB=,                                00070000
//      NAME=,                                   00080000
//      FILENUM=,                               00090000
//      UNIT=,                                  00100000
//      VOLSER=,                                00110000
//VER      EXEC PGM=IDCAMS,REGION=512K           00120000
//INFCOM   DD DISP=SHR,DSN=&INFCOM              00130000
//SYSPRINT DD SYSOUT=*                          00140000
//BACKUP   EXEC PGM=INFORMUU,REGION=512K        00150000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB              00160000
//INFPRINT DD SYSOUT=*                          00170000
//INFORMCF DD DISP=SHR,DSN=&INFCOM              00180000
//INBACKUP DD DISP=(NEW,KEEP),DSN=&NAME,UNIT=&UNIT,VOL=SER=&VOLSER, 00190000
//      LABEL=(&FILENUM,SL)                    00200000
//      PEND                                   00210000
/******                                           00220000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THE PROCEDURE. * 00230001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00240001
/* * 00250000
/* INFCOM - THE INFORM COMMUNICATIONS FILE. * 00260001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00270001
/* NAME - THE BACKUP FILE TO CREATE. * 00280000
/* FILENUM - THE NUMBER OF THE TAPE FILE TO CONTAIN THE BACKUP. * 00290000
/*      THE DEFAULT IS 1. * 00300000
/* UNIT - THE UNIT OF THE BACKUP FILE. THE DEFAULT IS TAPE. * 00310000
/* VOLSER - THE VOLUME SERIAL NUMBER OF THE BACKUP FILE. * 00320000
/******                                           00330000
//BACKUP   EXEC CMBACKUP,                        00340000
//      INFCOM='INFORM.INFCOM',                00350001
//      LOADLIB='INFORM.LOADLIB',              00360001
//      NAME='INFORM.BACKUP.INFCOM',           00370001
//      FILENUM=1,                             00380000
//      UNIT=TAPE,                             00390000
//      VOLSER=XXXXXX                          00400000
//VER.SYSIN DD *                               00410000
//      VERIFY FILE(INFCOM)                    00420000

```

Figure A-8 CMBACKUP — JCL to Backup the Communication File

CMRESTOR

```

/* MEMBER CMRESTOR                                00010000
/******                                00020000
/* THIS PROCEDURE RESTORES THE SYSTEM COMMUNICATIONS FILE FROM * 00030000
/* THE BACKUP DATASET CREATED BY THE 'CMBACKUP' JOB. THIS JOB * 00040000
/* ASSUMES THAT THE BACKUP FILE IS ON TAPE. * 00050000
/******                                00060000
//CMRESTOR PROC INFCOM=,                                00070000
//      LOADLIB=,                                00080000
//      NAME=,                                00090000
//      FILENUM=,                                00100000
//      UNIT=,                                00110000
//      VOLSER=                                00120000
//DEFINE EXEC PGM=IDCAMS,REGION=512K                    00130000
//SYSPRINT DD SYSOUT=*                                00140000
//REST EXEC PGM=INFORMUL,REGION=512K                    00150000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                    00160000
//INFPRI DD SYSOUT=*                                00170000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                    00180000
//INBACKUP DD DISP=OLD,DSN=&NAME,UNIT=&UNIT,VOL=SER=&VOLSER, 00190000
//      LABEL=(&FILENUM,SL)                        00200000
//      PEND                                00210000
/******                                00220000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00230002
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00240001
/* * 00250000
/* INFCOM - THE INFORM COMMUNICATIONS FILE. * 00260001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00270001
/* NAME - THE BACKUP FILE CREATED BY THE BACKUP PROCEDURE. * 00280000
/* FILENUM - THE NUMBER OF THE TAPE FILE CONTAINING THE BACKUP. * 00290000
/* THE DEFAULT IS 1. * 00300000
/* UNIT - THE UNIT OF THE BACKUP FILE. THE DEFAULT IS TAPE. * 00310000
/* VOLSER - THE VOLUME SERIAL NUMBER OF THE BACKUP FILE. * 00320000
/* * 00330000
/* ALSO CHANGE THE DEFINE.SYSIN SPECIFICATION AS YOU DID FOR THE * 00340000
/* INIT PROCEDURE. * 00350000
/*      NAME('INFORM.INFCOM') * 00360001
/*      NAME('INFORM.INFCOM.DATA') * 00370001
/*      VOL('VOLUME') * 00380000
/*      OWNER('USER') * 00390000
/* * 00400000
/* REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR MORE * 00410000
/* INFORMATION. * 00420000
/******                                00430000
//RESTORE EXEC CMRESTOR,                                00440000
//      INFCOM='INFORM.INFCOM',                    00450001
//      LOADLIB='INFORM.LOADLIB',                    00460001
//      NAME='INFORM.BACKUP.INFCOM',                    00470001
//      FILENUM=1,                                00480000
//      UNIT=TAPE,                                00490000
//      VOLSER=XXXXXX                                00500000
//DEFINE.SYSIN DD *                                00510000
//      DELETE 'INFORM.INFCOM' CLUSTER PURGE                    00520001
//      DEFINE CLUSTER -                                00530000
//          (NAME('INFORM.INFCOM') -                    00540001
//          VOL('VOLUME') -                                00550000
//          RECORDS(409) -                                00560000
//          SHAREOPTIONS(3 3) -                            00570000
//          WRITECHECK NUMBERED -                            00580000
//          OWNER('USER')) -                                00590000
//      DATA(NAME('INFORM.INFCOM.DATA') -                    00600001
//          CONTROLINTERVALSIZE(4096) -                    00610000
//          RECORDSIZE(4088 4088) -                        00620000
//          BUFFERSPACE(8192))                                00630000

```

Figure A-9 CMRESTOR — JCL to Restore the Communication File

CNVRTDEF

```

/* MEMBER CNVRTDEF                                00010000
/******                                           00020000
/* THIS PROCEDURE RUNS THE DEFINITION CONVERT UTILITY IN ORDER TO * 00030002
/* CONVERT THE FOLLOWING ITEMS FROM OLDER VISION:INFORM RELEASE * 00040002
/* FORMATS TO THE DEFINITION PROCESSOR FORMAT:          * 00050002
/*                                                     * 00060002
/*          1) FILE DEFINITIONS                2) TABLE DEFINITIONS * 00070001
/*          3) LOGICAL DATAVIEW DEFINITIONS  4) ASL PROCEDURES      * 00080001
/*          5) EXTERNAL REQUESTS              * 00090001
/******                                           00100000
//CONVERT PROC LOADLIB=,                          00110000
//          RGN=,                                00120001
//          RUNMODE=,                            00130001
//          OUTPDS=,                             00140001
//          INPUT=,                              00150001
//CONVRT EXEC PGM=CONVERT,REGION=&RGN,PARM='&RUNMODE' 00160001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                00170001
//SYSPRINT DD SYSOUT=*                            00180001
//SYSTEM DD SYSOUT=*                              00190001
//OUTPDS DD DISP=SHR,DSN=&OUTPDS                  00200001
//SYSIN DD DISP=SHR,DSN=&INPUT                    00210001
//          PEND                                  00220001
/******                                           00230000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00240001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:          * 00250001
/*                                                     * 00260000
/* LOADLIB - NAME OF THE INFORM INSTALLATION LOAD LIBRARY. * 00270001
/* RGN - THE REGION SIZE. DEFAULT IS 512K.           * 00280001
/* RUNMODE - THE CONVERT UTILITY RUN MODE. SPECIFY EITHER 'TEST' * 00290001
/*           OR 'UPDATE'. THE DEFAULT IS 'TEST'.      * 00300001
/* OUTPDS - THE NAME OF THE PARTITIONED DATASET WHERE THE * 00310001
/*           CONVERTED OUTPUT WILL BE STORED.         * 00320001
/* INPUT - SPECIFY A SINGLE INPUT STREAM AS EITHER A SEQUENTIAL * 00330001
/*          FILE OR A PDS MEMBER. EXAMPLE:            * 00340001
/*          SEQUENTIAL -- // INPUT='USER.SEQ.FILEDEFS' * 00350001
/*          PARTITIONED -- // INPUT='USER.PDS.FILEDEFS (MEMBER) ' * 00360001
/******                                           00370000
//CONVERT EXEC CONVERT,                          00380001
//          LOADLIB='INFORM.LOADLIB',              00390001
//          RGN=512K,                              00400000
//          RUNMODE=TEST,                          00410000
//          OUTPDS='USER.PDS.CNVDEFS',              00420000
//          INPUT='USER.SEQ.FILEDEFS'               00430000

```

Figure A-10 CNVRTDEF — JCL to Convert Definitions from Previous Release Formats to Definition Processor Format

COBOLQS

```

/* MEMBER COBOLQS                                00010000
/*****                                00020000
/* EXECUTE THE COBOL QUICK START UTILITY.          * 00030000
/* ***** NOTE *****                          * 00040000
/* THE SYSCOPY DD STATEMENT IS USED FOR MVS COPYBOOK LIBRARIES. * 00050000
/* THE PANDD1 DD STATEMENT IS USED FOR PANVALET COPYBOOK LIBRARIES. * 00060003
/* THE MASTER DD STATEMENT IS USED FOR LIBRARIAN COPYBOOK LIBRARIES. * 00070003
/*                                              * 00080003
/* THIS UTILITY MAY ALSO BE INVOKED INTERACTIVELY UNDER TSO/ISPF * 00090003
/* USING THE DEFINITION PROCESSOR COMPONENT IMPORT FUNCTION. * 00100003
/*****                                00110000
//COBOLQS PROC LOADLIB=,                          00120000
//          COPYLIB=,                              00130001
//          DEFLIB=,                                00140001
//          MEMBER=,                                00150001
//COBOLQS EXEC PGM=COBOLQS,REGION=1024K            00160003
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                 00170002
//SYSPRINT DD SYSOUT=*                             00180001
//SYSCOPY DD DISP=SHR,DSN=&COPYLIB                 00190002
//*PANDD1 DD DISP=SHR,DSN=&COPYLIB                 00200002
//*MASTER DD DISP=SHR,DSN=&COPYLIB                 00210002
//SYS004 DD DISP=OLD,DSN=&DEFLIB(&MEMBER)           00220002
//SYSIN DD DUMMY                                   00230001
//          PEND                                   00240001
/*****                                00250000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00260001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:          * 00270001
/*                                              * 00280000
/*          LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00290001
/*          COPYLIB - THE COBOL COPY LIBRARY.           * 00300000
/*          DEFLIB - THE INFORM DEFINITION LIBRARY.     * 00310001
/*          MEMBER - MEMBER NAME FOR THE DEFINITION YOU ARE GENERATING. * 00320000
/*                                              * 00330000
/* YOU MUST ALSO PROVIDE THE APPROPRIATE SYSIN DATA IN THE * 00340000
/* COBOLQS.SYSIN DD OVERRIDE STMT.                   * 00350000
/*****                                00360000
//QS          EXEC COBOLQS,                         00370000
//          LOADLIB='INFORM.LOADLIB',               00380001
//          COPYLIB='COBOL.COPYBOOK',               00390000
//          DEFLIB='INFORM.DEFLIB',                 00400001
//          MEMBER='NEWNAME'                         00410000
//COBOLQS.SYSIN DD *                                00420000
FILEGEN NAME=NEWNAME,TYPE=FIXED,BUFFSIZE=80        00430003
SEGMENT NAME=OFFICE,NUMBER=10,LEVEL=1              00440000
$COBOL                                              00450000
      01 OFFICE-DATA.                               00460000
      02 OFFICE-CODE PIC S9(3).                     00470000
      02 OFFICE-ADDRESS.                             00480000
      03 OFFICE-STREET PIC X(20).                   00490000
      03 OFFICE-CITY PIC X(15).                     00500000
      03 OFFICE-STATE PIC X(2).                     00510000
      03 OFFICE-ZIP.                                00520000
      04 OFFICE-ZIP-FIRST-FIVE PIC X(5).             00530000
      04 OFFICE-ZIP-LAST-FOUR PIC X(4).              00540000
      02 OFFICE-PHONE PIC 9(7) OCCURS 3.             00550000
      02 OFFICE-AREA-CODE PIC X(3).                  00560000
      02 SPEED-DIAL PIC X(3).                        00570000
      02 FILLER PIC X(4).                           00580000
$ECOBOL                                              00590000

```

Figure A-11 COBOLQS — JCL to Run the COBOL Quick Start Utility to Generate a VISION:Inform File Definition from a COBOL Copybook

CREATFIN

```

/* MEMBER CREATFIN                                00010000
/******                                           00020000
/*  THIS PROCEDURE EXECUTES IDCAMS TO DEFINE THE CLUSTER FOR      * 00030000
/*  THE SAMPLE DATABASE, AND TO LOAD THE DATABASE FROM THE FILE   * 00040000
/*  CREATED DURING THE UNLOAD JOB.                                * 00050000
/******                                           00060000
//RESTORE PROC BKUPFLE=,                                00070000
//      DATAFLE=                                00080000
//DEFINE EXEC PGM=IDCAMS,REGION=512K                    00090002
//SYSPRINT DD SYSOUT=*                                00100000
//REPRO EXEC PGM=IDCAMS,REGION=512K                    00110002
//SYSPRINT DD SYSOUT=*                                00120000
//INPUT DD DISP=OLD,DSN=&BKUPFLE                      00130003
//OUTPUT DD DISP=OLD,DSN=&DATAFLE                     00140003
//      PEND                                00150000
/******                                           00160000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.        * 00170002
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:                    * 00180002
/**                                * 00190000
/* BKUPFLE - THE DATASET CREATED BY THE UNLOAD JCL.            * 00200000
/* DATAFLE - THE DATASET YOU WANT TO RESTORE THE FINANCE FILE TO. * 00210000
/**                                * 00220001
/***NOTE** YOU MUST ALSO SPECIFY THE FOLLOWING FOR DEFINE.SYSIN: * 00230001
/**      NAME('INFORM.FINANCE')                                * 00240002
/**      VOL('VOLUME')                                          * 00250001
/**      DATA(NAME('INFORM.FINANCE.DATA'))                    * 00260002
/**      INDEX(NAME('INFORM.FINANCE.INDEX'))                    * 00270002
/******                                           00280000
//RESTORE EXEC RESTORE,                                00290000
//      BKUPFLE='INFORM.TEMPFIN',                          00300002
//      DATAFLE='INFORM.FINANCE'                          00310002
//DEFINE.SYSIN DD *                                00320000
//  DEFINE CLUSTER -                                00330000
//    (NAME(INFORM.FINANCE) -                            00340002
//      VOL(VOLUME) -                                    00350001
//      TRACKS(10 5) -                                  00360000
//      DATA -                                          00370000
//        (NAME(INFORM.FINANCE.DATA) -                  00380002
//          KEYS(8 0) -                                  00390000
//          RECORDSIZE(3600 3608) -                      00400000
//          FREESPACE(10 10) -                          00410000
//          BUFFERSPACE(10000) -                        00420000
//        INDEX -                                       00430000
//        (NAME(INFORM.FINANCE.INDEX) -                 00440002
//          IMBED)                                       00450000
//REPRO.SYSIN DD *                                00460000
//  REPRO -                                            00470000
//    INFILE(INPUT) -                                  00480000
//    OUTFILE(OUTPUT)                                00490000

```

Figure A-12 CREATFIN — JCL to Create the VSAM FINANCE Test File

CREATUTL

```

/* MEMBER CREATUTL                                00010000
/*****                                00020000
/* THIS PROCEDURE CREATES THE SYSTEM DEFINITION PROCESSOR UTILITY * 00030002
/* LIBRARY.                                * 00040002
/*****                                00050000
//RESTORE PROC SRCLIB=,                        00060000
//      UTLIB=,                                00070001
//      LOADLIB=,                             00080001
//      BKUPFLE=,                             00090001
//DEFINE EXEC PGM=IDCAMS,REGION=1024K          00100001
//SYSPRINT DD SYSOUT=*                        00110001
//INITLB EXEC PGM=MARKUTIL,REGION=1024K        00120001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB             00130001
//M4LIST DD SYSOUT=*                          00140001
//M4LIB DD DISP=SHR,DSN=&UTLIB                 00150001
//M4WORK DD DUMMY                             00160001
//M4INPUT DD DISP=SHR,DSN=&SRCLIB (@INIT)       00170001
//RETLB EXEC PGM=MARKUTIL,REGION=1024K         00180001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB             00190001
//M4LIST DD SYSOUT=*                          00200001
//M4LIB DD DISP=OLD,DSN=&UTLIB                 00210001
//M4WORK DD DISP=OLD,DSN=&BKUPFLE              00220001
//M4INPUT DD DISP=SHR,DSN=&SRCLIB (@RESTORE)    00230001
//      PEND                                00240001
/*****                                00250000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00260001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00270001
/* * 00280000
/* SRCLIB - THE INFORM SOURCE LIBRARY. * 00290001
/* UTLIB - THE INFORM UTILITY LIBRARY. * 00300001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00310001
/* BKUPFLE - THE INFORM UTILITY LIBRARY TEMPORARY FILE. * 00320001
/* * 00330000
/* **NOTE** YOU MUST ALSO SPECIFY THE FOLLOWING FOR DEFINE.SYSIN: * 00340000
/*      NAME ('INFORM.UTLIB') * 00350001
/*      VOL ('VOLUME') * 00360000
/*      DATA (NAME ('INFORM.UTLIB.DATA')) * 00370001
/*****                                00380000
//RESTORE EXEC RESTORE,                        00390000
//      SRCLIB='INFORM.SRCLIB',                00400001
//      UTLIB='INFORM.UTLIB',                  00410001
//      LOADLIB='INFORM.LOADLIB',              00420001
//      BKUPFLE='INFORM.TEMPUTL'              00430001
//DEFINE.SYSIN DD *                            00440000
//      DEFINE CLUSTER -                      00450000
//          (NAME ('INFORM.UTLIB') -           00460001
//          VOL ('VOLUME') -                   00470000
//          NUMBERED -                         00480000
//          RECORDSIZE (507 507) -             00490000
//          SHAREOPTIONS (3 3) -               00500000
//          CISZ (4096) -                      00510000
//          TRK (5 5) -                        00520000
//          DATA (NAME ('INFORM.UTLIB.DATA')) 00530001

```

Figure A-13 CREATUTL — JCL to Create the Utility Library for the Definition Processor

DB2CALL

```

/* MEMBER DB2CALL                                00010000
/******                                00020000
/* THIS JOB PERFORMS THE ASSEMBLY AND PROGRAM PREPARATION STEPS * 00030000
/* REQUIRED FOR THE 'DB2MOD' PROGRAM FROM 'INFORM.SRCLIB' TO BE * 00040000
/* USED WITH THE DB2 CALL ATTACH FACILITY. * 00050000
/******                                00060000
/* STEP 1 - ASSEMBLE THE INFORM DB2 MODULE. * 00070000
/******                                00080000
//GEN EXEC PGM=ASMA90,PARM='DECK,NOOBJECT',REGION=2M 00090003
//SYSPRINT DD SYSOUT=* 00100000
//SYSPUNCH DD DISP=(MOD,PASS),DSN=&&GENOUT,UNIT=SYSDA, 00110000
// SPACE=(800,(200,200)), 00120000
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200) 00130000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1)) 00140000
//SYSLIB DD DISP=SHR,DSN=SYS1.MACLIB 00150000
//SYSIN DD DISP=SHR,DSN=INFORM.SRCLIB(DB2MOD) 00160000
/******                                00170000
/* STEP 2 - INVOKE THE STANDARD DB2 PREPARE PROCEDURE. * 00180000
/* ***** N O T E ***** * 00190000
/* THE "MEM" AND "USER" DSNHASM PROC PARAMETERS MAY BE * 00200002
/* CHANGED AS NEEDED. * 00210000
/* MEM = MEMBER NAME TO BE CREATED IN DBRMLIB. * 00211002
/* USER = HIGH LEVEL DSN PREFIX FOR DBRMLIB.DATA PDS. * 00212002
/* "SYSMOD" MUST SPECIFY THE INFORM INSTALLATION LOADLIB. * 00220000
/* DO NOT ALTER THE LKED.SYSIN STATEMENTS. * 00230000
/******                                00240000
//PREP EXEC DSNHASM, 00250001
// MEM=MARKSQL, 00260000
// USER=USERID, 00270000
// PARM.PC='HOST(ASM),STDSQL(86)' 00280000
//PC.SYSIN DD DISP=(OLD,DELETE),DSN=&&GENOUT 00290000
//LKED.SYSMOD DD DISP=OLD,DSN=INFORM.LOADLIB 00300000
//LKED.SYSIN DD * 00310000
// INCLUDE SYSLIB(DSNALI) 00320000
// MODE AMODE(31),RMODE(ANY) 00330000
// NAME MARKSQLC(R) 00340000

```

Figure A-14 DB2CALL — JCL Assemble and Prepare the VISION:Inform DB2 Module for the DB2 CALL Attach Facility

DB2IMS

```

/* * MEMBER DB2IMS                                00010000
/* *****                                00020000
/* THIS JOB PERFORMS THE ASSEMBLY AND PROGRAM PREPARATION STEPS * 00030000
/* REQUIRED FOR THE 'DB2MOD' PROGRAM FROM 'INFORM.SRCLIB' TO BE USED * 00040000
/* WITH THE DB2 IMS ATTACH FACILITY. * 00050000
/* *****                                00060000
/* STEP 1 - ASSEMBLE THE INFORM DB2 MODULE. * 00070000
/* *****                                00080000
//GEN      EXEC PGM=ASMA90,PARM='DECK,NOOBJECT',REGION=2M      00090003
//SYSPRINT DD SYSOUT=*                                00100000
//SYSPUNCH DD DISP=(MOD,PASS),DSN=&&GENOUT,UNIT=SYSDA,        00110000
//          SPACE=(800,(200,200)),                        00120000
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)           00130000
//SYSUT1   DD UNIT=SYSDA,SPACE=(CYL,(1,1))                 00140000
//SYSLIB   DD DISP=SHR,DSN=SYS1.MACLIB                     00150000
//SYSIN    DD DISP=SHR,DSN=INFORM.SRCLIB(DB2MOD)           00160000
/* *****                                00170000
/* STEP 2 - INVOKE THE STANDARD DB2 PREPARE PROCEDURE. * 00180000
/*          ***** N O T E ***** * 00190000
/*          THE "MEM" AND "USER" DSNHASM PROC PARAMETERS MAY BE * 00200002
/*          CHANGED AS NEEDED. * 00210000
/*          MEM = MEMBER NAME TO BE CREATED IN DBRMLIB. * 00211002
/*          USER = HIGH LEVEL DSN PREFIX FOR DBRMLIB.DATA PDS. * 00212002
/*          "SYSMOD" MUST SPECIFY THE INFORM INSTALLATION LOADLIB. * 00220000
/*          DO NOT ALTER THE LKED.SYSIN STATEMENTS. * 00230000
/* *****                                00240000
//PREP     EXEC DSNHASM,                                00250001
//          MEM=MARKSQL,                                00260000
//          USER=USERID,                                00270000
//          PARM.PC='HOST(ASM),STDSQL(86)'                00280000
//PC.SYSIN DD DISP=(OLD,DELETE),DSN=&&GENOUT                00290000
//LKED.SYSMOD DD DISP=OLD,DSN=INFORM.LOADLIB              00300000
//LKED.IMSLIB DD DISP=SHR,DSN=IMSVS.RESLIB                00310000
//LKED.SYSIN DD *                                         00320000
//          INCLUDE IMSLIB(DFSLI000)                      00330000
//          MODE AMODE(31),RMODE(ANY)                    00340000
//          NAME MARKSQLI(R)                              00350000

```

Figure A-15 DB2IMS — JCL to Assemble and Prepare the VISION:Inform DB2 Module for the DB2 IMS Attach Facility

DB2QS

```

/* MEMBER DB2QS                                00010000
/******                                00020002
/* EXECUTE THE DB2 QUICK START UTILITY.          * 00030002
/*                                              * 00040002
/* THIS UTILITY MAY ALSO BE INVOKED INTERACTIVELY UNDER TSO/ISPF * 00050002
/* USING THE DEFINITION PROCESSOR COMPONENT IMPORT FUNCTION.    * 00060002
/******                                00070002
//DB2QS  PROC LOADLIB=,                        00080000
//                                DB2LOAD=,      00090000
//                                DEFLIB=        00100000
//DB2QS  EXEC PGM=DB2QS,REGION=1024K           00110000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB             00120001
//                                DD DISP=SHR,DSN=&DB2LOAD 00130001
//SYSTEM  DD DUMMY                             00140000
//SYSPRINT DD SYSOUT=*,DCB=(DSORG=PS,RECFM=FBA,LRECL=133,BLKSIZE=1330) 00150001
//SYS004  DD DISP=OLD,DSN=&DEFLIB              00160001
//SYSIN   DD DUMMY                             00170000
//                                PEND              00180000
/******                                00190002
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.      * 00200002
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:                    * 00210002
/*                                              * 00220002
/*      LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.        * 00230002
/*      DB2LOAD - THE DB2 SYSTEM LOAD LIBRARY NAME.            * 00240002
/*      DEFLIB - THE INFORM DEFINITION LIBRARY.                * 00250002
/*                                              * 00260002
/* YOU MUST ALSO PROVIDE THE APPROPRIATE SYSIN DATA IN THE    * 00270002
/* DB2QS.SYSIN DD OVERRIDE STMT.                                * 00280002
/******                                00290002
//QS      EXEC DB2QS,                                00300000
//                                LOADLIB='INFORM.LOADLIB',    00310001
//                                DB2LOAD='DB2.DSNLOAD',        00320000
//                                DEFLIB='INFORM.DEFLIB'        00330001
//DB2QS.SYSIN DD *                                00340000
DB2CNTL  DB2PLAN=DB2QS,DB2SYS=DB2                00350000
FILEGEN  NAME=DB2QS,BUFFSIZE=1024K                00360000
SEGMENT  NAME=DEPT,NUMBER=10,LEVEL=1,TABLE=DEPT,CREATOR=DSN8230, 00370000
          PRINT=ALL                                00380000
NEWPAGE
SEGMENT  NAME=EMPLOYEE,NUMBER=20,LEVEL=2,TABLE=EMP,CREATOR=DSN8230, 00390000
          PRINT=ALL                                00400000
NEWPAGE
SEGMENT  NAME=PROJECT,NUMBER=30,LEVEL=2,TABLE=PROJ,CREATOR=DSN8230, 00410000
          PRINT=ALL                                00420000
          PRINT=ALL                                00430000
          PRINT=ALL                                00440000

```

Figure A-16 DB2QS — JCL to Run the DB2 Quick Start Utility to Convert DB2 Table Definitions into VISION:Inform File Definitions

DB2TSO

```

/* * MEMBER DB2TSO                                00010000
/* *****                                00020000
/* THIS JOB PERFORMS THE ASSEMBLY AND PROGRAM PREPARATION STEPS * 00030000
/* REQUIRED FOR THE 'DB2MOD' PROGRAM FROM 'INFORM.SRCLIB' TO BE * 00040000
/* USED WITH THE TSO ATTACH FACILITY. * 00050000
/* *****                                00060000
/* STEP 1 - ASSEMBLE THE INFORM DB2 MODULE. * 00070000
/* *****                                00080000
//GEN      EXEC PGM=ASMA90,PARM='DECK,NOBJECT',REGION=2M      00090003
//SYSPRINT DD SYSOUT=*                                00100000
//SYSPUNCH DD DISP=(MOD,PASS),DSN=&&GENOUT,UNIT=SYSDA,        00110000
//          SPACE=(800,(200,200)),                      00120000
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)          00130000
//SYSUT1   DD UNIT=SYSDA,SPACE=(CYL,(1,1))                00140000
//SYSLIB   DD DISP=SHR,DSN=SYS1.MACLIB                    00150000
//SYSIN    DD DISP=SHR,DSN=INFORM.SRCLIB(DB2MOD)           00160000
/* *****                                00170000
/* STEP 2 - INVOKE THE STANDARD DB2 PREPARE PROCEDURE. * 00180000
/*          ***** N O T E ***** * 00190000
/*          THE "MEM" AND "USER" DSNHASM PROC PARAMETERS MAY BE * 00200002
/*          CHANGED AS NEEDED. * 00210000
/*          MEM = MEMBER NAME TO BE CREATED IN DBRMLIB. * 00211002
/*          USER = HIGH LEVEL DSN PREFIX FOR DBRMLIB.DATA PDS. * 00212002
/*          "SYSMOD" MUST SPECIFY THE INFORM INSTALLATION LOADLIB. * 00220000
/*          DO NOT ALTER THE LKED.SYSIN STATEMENTS. * 00230000
/* *****                                00240000
//PREP     EXEC DSNHASM,                                00250001
//          MEM=MARKSQL,                                00260000
//          USER=USERID,                                00270000
//          PARM.PC='HOST(ASM),STDSQL(86)'                00280000
//PC.SYSIN DD DISP=(OLD,DELETE),DSN=&&GENOUT                00290000
//LKED.SYSMOD DD DISP=OLD,DSN=INFORM.LOADLIB              00300000
//LKED.SYSIN DD *                                         00310000
//          INCLUDE SYSLIB(DSNELI)                        00320000
//          MODE AMODE(31),RMODE(ANY)                    00330000
//          NAME MARKSQLT(R)                              00340000

```

Figure A-17 DB2TSO — JCL to Assemble and Prepare the VISION:Inform DB2 Module for the DB2 TSO Attach Facility

DFHCSDUP

```

//* MEMBER DFHCSDUP                                00010000
//*****                                           00020000
//* THIS JOB INSTALLS THE CICS SYSTEM DEFINITION OF THE INFORM * 00030001
//* SYSTEM FOR CICS SYSTEMS. * 00040007
//* NOTE - IF USING HOSTCONNECT SERVER, OR IF CONCURRENT UPDATE * 00041008
//* ACCESS TO THE FOREGROUND LIBRARY IS DESIRED, USE JCL * 00042008
//* MEMBER DFHCSD2 INSTEAD OF THIS JCL MEMBER. * 00043008
//*****                                           00050000
//INST PROC CICSCLIB=,                                00060001
// CSDFILE=                                           00070001
//CSDUP EXEC PGM=DFHCSDUP,REGION=1M                  00080008
//STEPLIB DD DISP=SHR,DSN=&CICSCLIB                  00090002
//DFHCSD DD DISP=SHR,DSN=&CSDFILE                    00100002
//SYSPRINT DD SYSOUT=*                               00110001
// PEND                                              00120001
//*****                                           00130000
//* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00140001
//* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00150001
// * 00160000
//* CICSCLIB - THE CICS LOAD LIBRARY CONTAINING THE DFHCSDUP PROGRAM. * 00170000
//* CSDFILE - THE CICS SYSTEM DEFINITION FILE. * 00180000
// * 00190000
//* NOTE: THE CSD ENTRIES MAY BE ALTERED AS FOLLOWS: * 00200000
// * 00210000
//* 1) THE GROUP AND LIST NAMES MAY ME CHANGED AS NEEDED. * 00220000
//* THE GROUP NAME MUST BE THE SAME IN ALL DEFINITIONS. * 00230000
//* THE DEFAULT GROUPNAME IS INFORM. * 00240000
//* 2) THE PROFILE NAME MAY BE CHANGED. * 00250000
//* THE DEFAULT PROFILE NAME IS INFORM. * 00260000
//* 3) FOR TRANSACTION DEFINITIONS, THE TRANSACTION NAME * 00270000
//* MAY BE CHANGED TO ANY VALID NAME. DEFAULT TRANSACTION * 00280000
//* NAMES ARE INFP, INFM, INFN, AND INFJ. IF THE INFN * 00290000
//* TRANSACTION NAME IS CHANGED, THE USER PARMBLK * 00300000
//* PARAMETER KEYWORD "IATRAN" MUST BE CHANGED TO MATCH. * 00310000
//* IF THE PROGRAM NAMES ARE CHANGED, THE PROGRAM KEYWORD * 00320000
//* ON THE TRANSACTION DEFINITIONS MUST BE CHANGED * 00330000
//* CORRESPONDINGLY. * 00340000
//* 4) FOR FILE DEFINITIONS, THE FILE NAME AND DSNAME * 00350000
//* PARAMETERS MAY BE CHANGED. IF THE FILE NAME IS * 00360000
//* CHANGED, ONLY THE FIRST SIX CHARACTERS MAY BE CHANGED. * 00370000
//* THEY MUST MATCH THE PREFIX USED ON THE PROGRAM AND * 00380000
//* MAPSET NAMES. * 00390000
//* 5) THE FIRST SIX CHARACTERS OF THE MAPSET NAME MAY BE * 00400000
//* CHANGED. THIS MUST BE DONE AS A GLOBAL CHANGE SO THAT * 00410000
//* ALL MAPSET NAME PREFIXES ARE THE SAME. * 00420000
//* THE DEFAULT MAPSET PREFIX IS INFORM. * 00430000
//* 6) THE FIRST SIX CHARACTERS OF THE PROGRAM NAME MAY BE * 00440000
//* CHANGED. THE DEFAULT PROGRAM PREFIX IS INFORM. * 00450000
// * 00460000
//* THE DEFINITIONS ARE SET UP SO THAT NAME CHANGES NECESSARY TO * 00470000
//* CONFORM TO INSTALLATION NAMING CONVENTIONS MAY BE SAFELY * 00480000
//* ACCOMPLISHED BY DOING A GLOBAL CHANGE OF "INFORM" TO ANY VALID * 00490000
//* SIX CHARACTER NAME PREFIX. * 00500000
//*****                                           00510000
//INST EXEC INST,                                00520000
// CICSCLIB='USER.CICS.SDFHLOAD',                  00530000
// CSDFILE='USER.CICS.CSD'                          00540000
//SYSIN DD *                                         00550000
//*****                                           00560000
* DEFINE THE GROUP AND LIST ENTRIES. * 00570006
//*****                                           00580000
ADD GROUP(INFORM) LIST(USERLIST)                  00590000
//*****                                           00600000
* DEFINE THE PROFILE ENTRY. * 00610006
//*****                                           00620000

```

Figure A-18 DFHCSDUP — JCL to Define VISION:Inform to CICS (Page 1 of 3)

```

DEFINE PROFILE (INFORM) GROUP (INFORM) SCRNSIZE (ALTERNATE) UCTRAN (YES) 00630009
      DESCRIPTION (VISION:INFORM RELEASE 4.0) 00640009
***** 00650000
* DEFINE THE 3270 PLATFORM INTERFACE TRANSACTION. * 00660006
***** 00670000
DEFINE TRANSACTION (INFP) GROUP (INFORM) PROGRAM (INFORMOL) 00680000
      TWASIZE (500) PROFILE (INFORM) SPURGE (YES) TPURGE (YES) 00690009
***** 00700000
* DEFINE THE REMOTE PLATFORM INTERFACE FOR ALL REMOTE PLATFORMS * 00710000
* E X C E P T FOR RELEASE 2.0B AND HIGHER OF VISION:JOURNEY FOR * 00720006
* WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR DOS. * 00730006
* * 00740000
* NOTE: REMOVE THE INFM AND INFN TRANSACTIONS IF THIS REMOTE * 00750000
* PLATFORM SUPPORT IS NOT NEEDED * 00760000
***** 00770000
DEFINE TRANSACTION (INFM) GROUP (INFORM) PROGRAM (INFORMMI) 00780000
      TWASIZE (500) PROFILE (INFORM) SPURGE (YES) TPURGE (YES) 00790009
DEFINE TRANSACTION (INFN) GROUP (INFORM) PROGRAM (INFORMOM) 00800000
      TWASIZE (500) PROFILE (INFORM) SPURGE (YES) TPURGE (YES) 00810009
***** 00820000
* DEFINE THE REMOTE PLATFORM INTERFACE FOR RELEASE 2.0B AND HIGHER OF * 00830006
* VISION:JOURNEY FOR WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR * 00840006
* DOS. * 00850006
* * 00860000
* NOTE: REMOVE THE INFJ TRANSACTION IF THIS REMOTE PLATFORM * 00870000
* SUPPORT IS NOT NEEDED * 00880000
***** 00890000
DEFINE TRANSACTION (INFJ) GROUP (INFORM) PROGRAM (INFORMJY) 00900000
      TWASIZE (500) PROFILE (INFORM) SPURGE (YES) TPURGE (YES) 00910009
***** 00920000
* DEFINE THE FILE ENTRIES. * 00930006
***** 00940000
DEFINE FILE (INFORMLF) GROUP (INFORM) 00950000
      DSNNAME (INFORM.FGLIB) 00960001
      LSRPOOLID (1) STRINGS (1) DATABUFFERS (2) 00970000
      UPDATE (YES) RECORDFORMAT (F) RECOVERY (BACKOUTONLY) 00980000
DEFINE FILE (INFORMCF) GROUP (INFORM) 00990000
      DSNNAME (INFORM.INFCOM) 01000001
      LSRPOOLID (NONE) STRINGS (1) DATABUFFERS (2) 01010000
      UPDATE (YES) RECORDFORMAT (F) RECOVERY (NONE) 01020000
***** 01030000
* DEFINE THE MAPSET ENTRIES. * 01040006
***** 01050000
DEFINE MAPSET (INFORMA) GROUP (INFORM) 01060000
DEFINE MAPSET (INFORMB) GROUP (INFORM) 01070000
DEFINE MAPSET (INFORMD) GROUP (INFORM) 01080000
DEFINE MAPSET (INFORME) GROUP (INFORM) 01090000
DEFINE MAPSET (INFORMF) GROUP (INFORM) 01100000
DEFINE MAPSET (INFORMH) GROUP (INFORM) 01110004
DEFINE MAPSET (INFORMK) GROUP (INFORM) 01120004
DEFINE MAPSET (INFORMN) GROUP (INFORM) 01130005
DEFINE MAPSET (INFORM0) GROUP (INFORM) 01140000
DEFINE MAPSET (INFORM1) GROUP (INFORM) 01150000
DEFINE MAPSET (INFORM2) GROUP (INFORM) 01160000
DEFINE MAPSET (INFORM3) GROUP (INFORM) 01170000
DEFINE MAPSET (INFORM4) GROUP (INFORM) 01180000
DEFINE MAPSET (INFORM5) GROUP (INFORM) 01190000
DEFINE MAPSET (INFORM6) GROUP (INFORM) 01200000
DEFINE MAPSET (INFORM7) GROUP (INFORM) 01210000
DEFINE MAPSET (INFORM8) GROUP (INFORM) 01220000
DEFINE MAPSET (INFORM9) GROUP (INFORM) 01230000
***** 01240000
* DEFINE THE PROGRAM ENTRIES. * 01250006
***** 01260000
DEFINE PROGRAM (INFORMAB) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01270000
DEFINE PROGRAM (INFORMAR) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01280000
DEFINE PROGRAM (INFORMAS) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01290000
DEFINE PROGRAM (INFORMAV) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01300000
DEFINE PROGRAM (INFORMCA) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01310000
DEFINE PROGRAM (INFORMCC) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01320000

```

Figure A-18 DFHCSDUP — JCL to Define VISION:Inform to CICS (Page 2 of 3)

JCL Samples A-31

DFHCSD2

```

/* MEMBER DFHCSD2                                00010000
/******                                00020000
/* THIS JOB INSTALLS THE CICS SYSTEM DEFINITION OF THE INFORM * 00030000
/* SYSTEM FOR CICS SYSTEMS. * 00040001
/* THIS JOB SHOULD BE USED IF YOU ARE USING THE HOSTCONNECT SERVER * 00050000
/* CLIENT OR IF YOU DESIRE TO ESTABLISH CONCURRENT UPDATE ACCESS TO * 00060000
/* THE FOREGROUND LIBRARY. * 00070000
/******                                00080000
//INST  PROC CICSCLIB=,                          00090000
//      CSDFILE=                                00100000
//CSDUP  EXEC PGM=DFHCSDUP,REGION=1M             00110001
//STEPLIB DD DISP=SHR,DSN=&CICSCLIB              00120000
//DFHCSD DD DISP=SHR,DSN=&CSDFILE                00130000
//SYSPRINT DD SYSOUT=*                          00140000
//      PEND                                    00150000
/******                                00160000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00170000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00180000
/* * 00190000
/* CICSCLIB - THE CICS LOAD LIBRARY CONTAINING THE DFHCSDUP PROGRAM. * 00200000
/* CSDFILE - THE CICS SYSTEM DEFINITION FILE. * 00210000
/* * 00220000
/* NOTE: THE CSD ENTRIES MAY BE ALTERED AS FOLLOWS: * 00230000
/* * 00240000
/* 1) THE GROUP AND LIST NAMES MAY ME CHANGED AS NEEDED. * 00250000
/* THE GROUP NAME MUST BE THE SAME IN ALL DEFINITIONS. * 00260000
/* THE DEFAULT GROUPNAME IS INFORM. * 00270000
/* 2) THE PROFILE NAME MAY BE CHANGED. * 00280000
/* THE DEFAULT PROFILE NAME IS INFORM. * 00290000
/* 3) FOR TRANSACTION DEFINITIONS, THE TRANSACTION NAME * 00300000
/* MAY BE CHANGED TO ANY VALID NAME. DEFAULT TRANSACTION * 00310000
/* NAMES ARE INFP, INFM, INFN, AND INFJ. IF THE INFN * 00320000
/* TRANSACTION NAME IS CHANGED, THE USER PARMBLK * 00330000
/* PARAMETER KEYWORD "IATRAN" MUST BE CHANGED TO MATCH. * 00340000
/* IF THE PROGRAM NAMES ARE CHANGED, THE PROGRAM KEYWORD * 00350000
/* ON THE TRANSACTION DEFINITIONS MUST BE CHANGED * 00360000
/* CORRESPONDINGLY. * 00370000
/* 4) FOR FILE DEFINITIONS, THE FILE NAME AND DSNAME * 00380000
/* PARAMETERS MAY BE CHANGED. IF THE FILE NAME IS * 00390000
/* CHANGED, ONLY THE FIRST SIX CHARACTERS MAY BE CHANGED. * 00400000
/* THEY MUST MATCH THE PREFIX USED ON THE PROGRAM AND * 00410000
/* MAPSET NAMES. * 00420000
/* 5) THE FIRST SIX CHARACTERS OF THE MAPSET NAME MAY BE * 00430000
/* CHANGED. THIS MUST BE DONE AS A GLOBAL CHANGE SO THAT * 00440000
/* ALL MAPSET NAME PREFIXES ARE THE SAME. * 00450000
/* THE DEFAULT MAPSET PREFIX IS INFORM. * 00460000
/* 6) THE FIRST SIX CHARACTERS OF THE PROGRAM NAME MAY BE * 00470000
/* CHANGED. THE DEFAULT PROGRAM PREFIX IS INFORM. * 00480000
/* * 00490000
/* THE DEFINITIONS ARE SET UP SO THAT NAME CHANGES NECESSARY TO * 00500000
/* CONFORM TO INSTALLATION NAMING CONVENTIONS MAY BE SAFELY * 00510000
/* ACCOMPLISHED BY DOING A GLOBAL CHANGE OF "INFORM" TO ANY VALID * 00520000
/* SIX CHARACTER NAME PREFIX. * 00530000
/******                                00540000
//INST  EXEC INST,                              00550000
//      CICSCLIB='USER.CICS.SDFHLOAD',          00560000
//      CSDFILE='USER.CICS.CSD'                  00570000
//SYSIN  DD *                                    00580000
/******                                00590000
* DEFINE THE GROUP AND LIST ENTRIES. * 00600000
/******                                00610000
ADD GROUP(INFORM) LIST(USERLIST)                00620000
/******                                00630000

```

Figure A-19 DFHCSD2 — Alternate JCL to Define VISION:Inform to CICS (Page 1 of 4)

```

* DEFINE THE PROFILE ENTRY.                                * 00640000
*****                                                    * 00650000
DEFINE PROFILE(INFORM) GROUP(INFORM) SCRNSIZE(ALTERNATE) UCTRAN(YES) 00660002
      DESCRIPTION(VISION:INFORM RELEASE 4.0)                    00670002
*****                                                    * 00680000
* DEFINE THE 3270 PLATFORM INTERFACE TRANSACTION.            * 00690000
*****                                                    * 00700000
DEFINE TRANSACTION(INFP) GROUP(INFORM) PROGRAM(INFORMOL)          00710000
      TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)      00720002
*****                                                    * 00730000
* DEFINE THE REMOTE PLATFORM INTERFACE FOR ALL REMOTE PLATFORMS * 00740000
*   E X C E P T   FOR RELEASE 2.0B AND HIGHER OF VISION:JOURNEY FOR * 00750000
*   WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR DOS.          * 00760000
*   *                                                         * 00770000
* NOTE:      REMOVE THE INFM AND INFN TRANSACTIONS IF THIS REMOTE * 00780000
*   PLATFORM SUPPORT IS NOT NEEDED                               * 00790000
*****                                                    * 00800000
DEFINE TRANSACTION(INFM) GROUP(INFORM) PROGRAM(INFORMMI)          00810000
      TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)      00820002
DEFINE TRANSACTION(INFN) GROUP(INFORM) PROGRAM(INFORMOM)          00830000
      TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)      00840002
*****                                                    * 00850000
* DEFINE THE REMOTE PLATFORM INTERFACE FOR RELEASE 2.0B AND HIGHER OF * 00860000
*   VISION:JOURNEY FOR WINDOWS AND RELEASE 3.0 OF VISION:JOURNEY FOR * 00870000
*   DOS.                                                         * 00880000
*   *                                                         * 00890000
* NOTE:      REMOVE THE INFJ TRANSACTION IF THIS REMOTE PLATFORM * 00900000
*   SUPPORT IS NOT NEEDED                               * 00910000
*****                                                    * 00920000
DEFINE TRANSACTION(INFJ) GROUP(INFORM) PROGRAM(INFORMJY)          00930000
      TWASIZE(500) PROFILE(INFORM) SPURGE(YES) TPURGE(YES)      00940002
*****                                                    * 00950000
* DEFINE THE FILE ENTRIES.                                     * 00960000
*****                                                    * 00970000
DEFINE FILE(INFORMLF) GROUP(INFORM)                                00980000
      DSNNAME(INFORM.FGLIB)                                     00990000
      LSRPOOLID(NONE) STRINGS(1) DATABUFFERS(2)                01000000
      UPDATE(YES) RECORDFORMAT(F) RECOVERY(BACKOUTONLY)         01010000
DEFINE FILE(INFORMCF) GROUP(INFORM)                                01020000
      DSNNAME(INFORM.INFCOM)                                    01030000
      LSRPOOLID(NONE) STRINGS(1) DATABUFFERS(2)                01040000
      UPDATE(YES) RECORDFORMAT(F) RECOVERY(NONE)                01050000
*****                                                    * 01060000
* DEFINE THE MAPSET ENTRIES.                                  * 01070000
*****                                                    * 01080000
DEFINE MAPSET(INFORMA) GROUP(INFORM)                              01090000
DEFINE MAPSET(INFORMB) GROUP(INFORM)                              01100000
DEFINE MAPSET(INFORMD) GROUP(INFORM)                              01110000
DEFINE MAPSET(INFORME) GROUP(INFORM)                              01120000
DEFINE MAPSET(INFORMF) GROUP(INFORM)                              01130000
DEFINE MAPSET(INFORMH) GROUP(INFORM)                              01140000
DEFINE MAPSET(INFORMK) GROUP(INFORM)                              01150000
DEFINE MAPSET(INFORMN) GROUP(INFORM)                              01160000
DEFINE MAPSET(INFORMO) GROUP(INFORM)                              01170000
DEFINE MAPSET(INFORM1) GROUP(INFORM)                              01180000
DEFINE MAPSET(INFORM2) GROUP(INFORM)                              01190000
DEFINE MAPSET(INFORM3) GROUP(INFORM)                              01200000
DEFINE MAPSET(INFORM4) GROUP(INFORM)                              01210000
DEFINE MAPSET(INFORM5) GROUP(INFORM)                              01220000
DEFINE MAPSET(INFORM6) GROUP(INFORM)                              01230000
DEFINE MAPSET(INFORM7) GROUP(INFORM)                              01240000
DEFINE MAPSET(INFORM8) GROUP(INFORM)                              01250000
DEFINE MAPSET(INFORM9) GROUP(INFORM)                              01260000
*****                                                    * 01270000
* DEFINE THE PROGRAM ENTRIES.                                  * 01280000
*****                                                    * 01290000
DEFINE PROGRAM(INFORMAB) GROUP(INFORM) LANGUAGE(ASSEMBLER)       01300000
DEFINE PROGRAM(INFORMAR) GROUP(INFORM) LANGUAGE(ASSEMBLER)       01310000
DEFINE PROGRAM(INFORMAS) GROUP(INFORM) LANGUAGE(ASSEMBLER)       01320000

```

Figure A-19 DFHCSD2 — Alternate JCL to Define VISION:Inform to CICS (Page 2 of 4)

A-34 Advantage VISION:Inform 4.0 for CICS Installation Guide

```
DEFINE PROGRAM (INFORMSX) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01960000
DEFINE PROGRAM (INFORMTM) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01970000
DEFINE PROGRAM (INFORMTR) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01980000
DEFINE PROGRAM (INFORMTV) GROUP (INFORM) LANGUAGE (ASSEMBLER) 01990000
DEFINE PROGRAM (INFORMT1) GROUP (INFORM) LANGUAGE (ASSEMBLER) 02000000
DEFINE PROGRAM (INFORMUB) GROUP (INFORM) LANGUAGE (ASSEMBLER) 02010000
DEFINE PROGRAM (INFORMVC) GROUP (INFORM) LANGUAGE (ASSEMBLER) 02020000
DEFINE PROGRAM (INFORMVP) GROUP (INFORM) LANGUAGE (ASSEMBLER) 02030000
DEFINE PROGRAM (INFORMVT) GROUP (INFORM) LANGUAGE (ASSEMBLER) 02040000
```

Figure A-19 DFHCSD2 — Alternate JCL to Define VISION:Inform to CICS (Page 4 of 4)

EXECDLI

```

/* MEMBER EXECDLI                                00010001
/******                                00020001
/* PROCEDURE TO RUN THE BACKGROUND PROCESSOR FOR DLI DATABASE ACCESS.* 00030001
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00040001
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00050001
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00060001
/* CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00070001
/******                                00080001
//EXECDLI PROC RGN=,                                00090001
//          PROG=,                                00100001
//          RESLIB=,                                00110001
//          PSBLIB=,                                00120001
//          DBDLIB=,                                00130001
//          PSB=,                                00140001
//          LOADLIB=,                                00150001
//          SORTLIB=,                                00160001
//          FGLIB=,                                00170001
//          INFCOM=,                                00180001
//          INFLOG=,                                00190001
//          BGLIB=,                                00200001
//          REPORTS=,                                00210001
//          RUNCNTL=,                                00220001
//          HCSCFG=,                                00230003
//          HTMLTPL=,                                00240003
//          M4REPO=,                                00250001
//          M4SORT=,                                00260001
//          M4REPI=,                                00270001
//VER      EXEC PGM=IDCAMS,REGION=512K              00280001
//SYSPRINT DD SYSOUT=*                              00290001
//FGLIB    DD DISP=SHR,DSN=&FGLIB                   00300001
//INFCOM    DD DISP=SHR,DSN=&INFCOM                  00310001
//BGLIB     DD DISP=SHR,DSN=&BGLIB                   00320001
//INFBG     EXEC PGM=DFSRRRC00,REGION=&RGN,PARAM=(DLI,&PROG,&PSB) 00330001
//STEPLIB   DD DISP=SHR,DSN=&LOADLIB                 00340001
//          DD DISP=SHR,DSN=&RESLIB                 00350001
//IMS       DD DISP=SHR,DSN=&PSBLIB                 00360001
//          DD DISP=SHR,DSN=&DBDLIB                 00370001
//DFSRESLB  DD DISP=SHR,DSN=&RESLIB                 00380001
//IEFRDER   DD DUMMY                                00390001
//M4LIB     DD DISP=SHR,DSN=&BGLIB                   00400001
//M4REPO    DD DISP=SHR,DSN=&M4REPO                 00410001
//SORTIN    DD DISP=SHR,DSN=&M4REPO                 00420001
//M4SORT    DD DISP=SHR,DSN=&M4SORT                 00430001
//SYSIN     DD DISP=SHR,DSN=&M4SORT                 00440001
//M4REPI    DD DISP=SHR,DSN=&M4REPI                 00450001
//SORTOUT   DD DISP=SHR,DSN=&M4REPI                 00460001
//SORTMSG   DD SYSOUT=*                              00470001
//INFREPT   DD DISP=OLD,DSN=&REPORTS                 00480001
//INFORMLF  DD DISP=SHR,DSN=&FGLIB                   00490001
//INFORMCF  DD DISP=SHR,DSN=&INFCOM                 00500001
//INFLOG    DD DISP=OLD,DSN=&INFLOG                 00510001
//SYSOUT    DD SYSOUT=*                              00520001
//SORTLIB   DD DISP=SHR,DSN=&SORTLIB                 00530001
//SORTWK01  DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00540001
//SORTWK02  DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00550001
//SORTWK03  DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00560001
//HCSCFG    DD DISP=SHR,DSN=&HCSCFG                 00570003
//M4HTBASE  DD DISP=SHR,DSN=&HTMLTPL                 00580003
//INFIN     DD DISP=SHR,DSN=&RUNCNTL                 00590001
//          PEND                                     00600001
/******                                00610001
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00620001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00630001

```

Figure A-20 EXECDLI — JCL to Run the Background Processor with Access to DL/I Databases (No DB2 Access) (Page 1 of 3)


```

/*
/** RGN      - THE REGION SIZE. THE DEFAULT IS 1800K.
/** PROG     - BACKGROUND PROCESSOR LOAD MODULE. DEFAULT IS INFORMDE.
/** RESLIB   - IMS RESLIB. THE DEFAULT IS IMSVS.RESLIB.
/** PSBLIB   - THE PSB LIBRARY.
/** DBDLIB   - THE DBD LIBRARY.
/** PSB      - THE PSB NAME FOR IMS DATABASE ACCESS.
/** LOADLIB  - THE INFORM INSTALLATION LOAD LIBRARY.
/** SORTLIB  - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB).
/** FGLIB    - THE INFORM FOREGROUND LIBRARY.
/** INFCOM   - THE INFORM COMMUNICATION FILE.
/** INFLOG   - THE INFORM HARDCOPY LOG FILE.
/** BGLIB    - THE INFORM BACKGROUND LIBRARY.
/** REPORTS  - THE INFORM PRINTED REPORT DATASET.
/** RUNCNTL  - THE DATASET CONTAINING THE BACKGROUND PROCESSOR INPUT
/**            PARAMETERS. **** NOTE **** SAMPLE CONTROL INPUT EXISTS
/**            MEMBER OSCNTL OF DATASET 'INFORM.SRCLIB'.
/** HCSCFG   - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF
/**            ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER
/**            NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO
/**            USED FOR THE HOST CONNECT SERVER WITH INTRACCESS.
/** HTMPTPL  - THE DATA SET NAME OF THE PDS CONTAINING THE HTML
/**            TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS
/**            THE INSTALLATION SOURCE LIBRARY.
/** M4REPO   - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE.
/** M4SORT   - BACKGROUND PROCESSOR SORT CONTROL INPUT AND OUTPUT.
/** M4REPI   - BACKGROUND PROCESSOR INPUT, SORT OUTPUT FILE.
/******
//INFBG EXEC EXECDLI,
//      RGN=1800K,
//      PROG=INFORMDE,
//      RESLIB='IMSVS.RESLIB',
//      PSBLIB='INFORM.PSBLIB',
//      DBDLIB='INFORM.DBDLIB',
//      PSB='USERPSB',
//      LOADLIB='INFORM.LOADLIB',
//      SORTLIB='SYS1.SORTLIB',
//      FGLIB='INFORM.FGLIB',
//      INFCOM='INFORM.INFCOM',
//      INFLOG='INFORM.INFLOG',
//      BGLIB='INFORM.BGLIB',
//      REPORTS='INFORM.REPORTS',
//      RUNCNTL='INFORM.SRCLIB(OSCNTL)',
//      HCSCFG='INFORM.SRCLIB(HCSCNFIG)',
//      HTMPTPL='INFORM.SRCLIB',
//      M4REPO='INFORM.M4REPO',
//      M4SORT='INFORM.M4SORT',
//      M4REPI='INFORM.M4REPI'
//VER.SYSIN DD *
//      VERIFY FILE(FGLIB)
//      VERIFY FILE(INFCOM)
//      VERIFY FILE(BGLIB)
//INFBG.DFSVSAMP DD *
8192,6
//*****
/** INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO
/** THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT:
/**
/** //INFBG.USERFILE DD .....
/**
/** IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR

```

Figure A-20 EXECDLI — JCL to Run the Background Processor with Access to DL/I Databases (No DB2 Access) (Page 2 of 3)

```
/* EACH SUBFILE WITH THE FOLLOWING FORMAT:          * 01250001
/*                                                    * 01260001
/* //INFBG.USERSUBF DD .....                        * 01270001
/*                                                    * 01280001
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01290001
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:    * 01300001
/*                                                    * 01310001
/* //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01320001
/******                                              * 01330002
```

Figure A-20 EXECCLI — JCL to Run the Background Processor with Access to DL/I Databases (No DB2 Access) (Page 3 of 3)

EXECOS

```

//* MEMBER EXECOS                                00010001
//*****                                00020001
//* PROCEDURE TO RUN THE BACKGROUND PROCESSOR AGAINST NON-DLI * 00030001
//* DATABASES.                                * 00040001
// * *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00050001
// * THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00060001
// * ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00070001
// * CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00080001
//*****                                00090001
//EXECOS PROC RGN=,                                00100001
//          LOADLIB=,                                00110001
//          SORTLIB=,                                00120001
//          FGLIB=,                                00130001
//          INFCOM=,                                00140001
//          INFLOG=,                                00150001
//          BGLIB=,                                00160001
//          REPORTS=,                                00170001
//          RUNCNTL=,                                00180001
//          HCSCFG=,                                00190003
//          HTMLTPL=,                                00200003
//          M4REPO=,                                00210001
//          M4SORT=,                                00220001
//          M4REPI=,                                00230001
//VER EXEC PGM=IDCAMS,REGION=512K                00240001
//SYSPRINT DD SYSOUT=*                            00250001
//FGLIB DD DISP=SHR,DSN=&FGLIB                    00260001
//INFCOM DD DISP=SHR,DSN=&INFCOM                    00270001
//BGLIB DD DISP=SHR,DSN=&BGLIB                      00280001
//INFBG EXEC PGM=INFORMBB,REGION=&RGN              00290001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                  00300001
//M4LIB DD DISP=SHR,DSN=&BGLIB                      00310001
//M4REPO DD DISP=SHR,DSN=&M4REPO                    00320001
//SORTIN DD DISP=SHR,DSN=&M4REPO                    00330001
//M4SORT DD DISP=SHR,DSN=&M4SORT                    00340001
//SYSIN DD DISP=SHR,DSN=&M4SORT                    00350001
//M4REPI DD DISP=SHR,DSN=&M4REPI                    00360001
//SORTOUT DD DISP=SHR,DSN=&M4REPI                   00370001
//SORTMSG DD SYSOUT=*                              00380001
//INFREPT DD DISP=OLD,DSN=&REPORTS                  00390001
//INFORMLF DD DISP=SHR,DSN=&FGLIB                    00400001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                    00410001
//INFLOG DD DISP=OLD,DSN=&INFLOG                     00420001
//SYSOUT DD SYSOUT=*                                00430001
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                   00440001
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)      00450001
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)      00460001
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)      00470001
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                     00480003
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL                   00490003
//INFIN DD DISP=SHR,DSN=&RUNCNTL                     00500001
// PEND                                           00510001
//*****                                00520001
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00530001
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00540001
// * * 00550001
// * RGN - THE REGION SIZE. THE DEFAULT IS 1200K. * 00560001
// * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00570001
// * SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00580001
// * FGLIB - THE INFORM FOREGROUND LIBRARY. * 00590001
// * INFCOM - THE INFORM COMMUNICATION FILE. * 00600001
// * INFLOG - THE INFORM HARDCOPY LOG FILE. * 00610001
// * BGLIB - THE INFORM BACKGROUND LIBRARY. * 00620001
// * REPORTS - THE DATASET FOR PRINTED REPORTS. * 00630001

```

Figure A-21 EXECOS — JCL to Run the Background Processor with Access to Non-DL/I Databases (No DB2 Access) (Page 1 of 2)

```

/* RUNCNTL - THE DATASET CONTAINING THE BACKGROUND PROCESSOR INPUT * 00640001
/* PARAMETERS. **** NOTE **** SAMPLE CONTROL INPUT EXISTS * 00650001
/* MEMBER OSCNTL OF DATASET 'INFORM.SRCLIB'. * 00660001
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00670003
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00680003
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00690004
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00700003
/* HTMPtpl - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00710003
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00720003
/* THE INSTALLATION SOURCE LIBRARY. * 00730003
/* M4REPO - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE. * 00740001
/* M4SORT - BACKGROUND PROCESSOR SORT CONTROL INPUT/OUTPUT. * 00750001
/* M4REPI - BACKGROUND PROCESSOR WORK FILE, SORT OUTPUT FILE. * 00760001
/* ***** 00770001
//EXECOS EXEC EXECOS,RGN=1200K, * 00780001
// LOADLIB='INFORM.LOADLIB', * 00790001
// SORTLIB='SYS1.SORTLIB', * 00800001
// FGLIB='INFORM.FGLIB', * 00810001
// INFCOM='INFORM.INFCOM', * 00820001
// INFLOG='INFORM.INFLOG', * 00830001
// BGLIB='INFORM.BGLIB', * 00840001
// REPORTS='INFORM.REPORTS', * 00850001
// RUNCNTL='INFORM.SRCLIB(OSCNTL)', * 00860001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', * 00870003
// HTMLTPL='INFORM.SRCLIB', * 00880003
// M4REPO='INFORM.M4REPO', * 00890001
// M4SORT='INFORM.M4SORT', * 00900001
// M4REPI='INFORM.M4REPI' * 00910001
//VER.SYSIN DD * * 00920001
// VERIFY FILE(FGLIB) * 00930001
// VERIFY FILE(INFCOM) * 00940001
// VERIFY FILE(BGLIB) * 00950001
/* ***** 00960001
/* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 00970001
/* THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT: * 00980001
/* * 00990001
/* //INFBG.USERFILE DD ..... * 01000001
/* * 01010001
/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01020001
/* EACH SUBFILE WITH THE FOLLOWING FORMAT: * 01030001
/* * 01040001
/* //INFBG.USERSUBF DD ..... * 01050001
/* * 01060001
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01070001
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT: * 01080001
/* * 01090001
/* //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01100001
/* ***** 01110002

```

Figure A-21 EXECOS — JCL to Run the Background Processor with Access to Non-DL/I Databases (No DB2 Access) (Page 2 of 2)

GLOSSARY

```

/* MEMBER GLOSSARY                                00010000
/******                                00020003
/* THIS PROCEDURE WILL CREATE A HARD COPY GLOSSARY LISTING OF * 00030003
/* SPECIFIED DATAVIEWS.                                * 00040003
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00050003
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00060003
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00070003
/* CONCATENATED TO THE GLOSS.STEPLIB DD STATEMENT. * 00080003
/******                                00090003
//GLOSSRY PROC LOADLIB=,                                00100000
//      BGLIB=                                00110001
//GLOSS EXEC PGM=MARKIV,REGION=2048K                    00120001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                      00130002
//M4LIST DD SYSOUT=*                                    00140001
//M4LIB DD DISP=SHR,DSN=&BGLIB                          00150001
//M4INPUT DD DUMMY                                      00160001
//      PEND                                          00170001
/******                                00180003
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00190003
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:              * 00200003
/* * 00210003
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00220003
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00230003
/* * 00240003
/* YOU MUST ALSO PROVIDE THE APPROPRIATE SYSIN DATA IN THE * 00250003
/* GLOSS.M4INPUT DD OVERRIDE STMT. REPLACE THE "?" CHARACTER IN * 00260004
/* THE SAMPLE FD STATEMENT WITH AN "X" FOR A GLOSSARY SORTED BY * 00270004
/* FIELD LOCATION, OR A "Y" FOR A GLOSSARY SORTED BY FIELD NAME. * 00280004
/******                                00290003
//GLOSS EXEC GLOSSRY,                                00300000
//      LOADLIB='INFORM.LOADLIB',                    00310001
//      BGLIB='INFORM.BGLIB'                        00320001
//GLOSS.M4INPUT DD *                                  00330003
GLOSSARYRC B                                          00340000
FILENAMEFD ?                                          00350000

```

Figure A-22 GLOSSARY — JCL to Obtain a Hard Copy Glossary Listing for a Data View

INFOSB

Note: The term ‘data view’ is one word in the product.

```

/* MEMBER INFOSB                                00010000
/******                                00020000
/* RUN THE BATCH SIMULATOR WITH ACCESS TO NON-DLI DATABASES. * 00030004
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00040004
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00050004
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00060004
/* CONCATENATED TO THE INF.STEPLIB DD STATEMENTS. * 00070004
/******                                00080000
//INFOSB PROC RGN=,                                00090000
// LOADLIB=,                                00100000
// SORTLIB=,                                00110000
// INFCOM=,                                00120000
// FGLIB=,                                00130003
// REPORTS=,                                00140001
// HCSCFG=,                                00150005
// HTMLTPL=,                                00160005
// BGLIB=                                00170001
//VER EXEC PGM=IDCAMS,REGION=512K                00180000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                00190000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                00200000
//BGLIB DD DISP=SHR,DSN=&BGLIB                   00210000
//SYSPRINT DD SYSOUT=*                          00220000
//INF EXEC PGM=INFORMSB,REGION=&RGN              00230000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB               00240000
//M4LIB DD DISP=SHR,DSN=&BGLIB                   00250000
//M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2))         00260000
//SYSOUT DD SYSOUT=*                            00270000
//SORTLIB DD DISP=SHR,DSN=&SORTLIB               00280000
//SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA   00290000
//SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//SORTWK03 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
// UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02))          00320000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                00330000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                00340000
//INFPRINT DD SYSOUT=*                          00350000
//INFLIST DD SYSOUT=*                          00360000
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                 00370005
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL              00380005
//INFREPT DD DISP=OLD,DSN=&REPORTS               00390000
// PEND                                          00400000
/******                                00410000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00420000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00430002
/* * 00440000
/* RGN - THE REGION SIZE (DEFAULT 1024K). * 00450001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00460001
/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00470001
/* INFCOM - THE INFORM COMMUNICATION FILE. * 00480001
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00490003
/* REPORTS - THE DATASET FOR PRINTED REPORTS. * 00500001
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00510005
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00520005
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00530005
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00540005
/* HTMP TPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00550005
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00560005
/* THE INSTALLATION SOURCE LIBRARY. * 00570005
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00580001
/******                                00590000
//INF EXEC INFOSB,RGN=1024K,                    00600001
// LOADLIB='INFORM.LOADLIB',                    00610001
// SORTLIB='SYS1.SORTLIB',                      00620000
// INFCOM='INFORM.INFCOM',                      00630001

```

Figure A-23 INFOSB — JCL to Run the Batch Simulator with Access to Non-DL/I Databases (No DB2 Access) (Page 1 of 2)

```

//          FGLIB='INFORM.FGLIB',                00640003
//          REPORTS='INFORM.REPORTS',            00650001
//          HCSCFG='INFORM.SRCLIB(HCSCNFIG)',     00660005
//          HTMLTPL='INFORM.SRCLIB',             00670005
//          BGLIB='INFORM.BGLIB'                 00680001
//VER.SYSIN DD *                                00690000
//          VERIFY FILE(INFORMLF)                00700000
//          VERIFY FILE(INFORMCF)                00710000
//          VERIFY FILE(BGLIB)                   00720000
//*****                                         00730000
//* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 00740000
//* THE BATCH SIMULATOR HERE. USE THE FOLLOWING FORMAT:          * 00750000
//*                                                                * 00760000
//* //INF.USERFILE DD .....                                     * 00770000
//*                                                                * 00780000
//* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 00790000
//* EACH SUBFILE WITH THE FOLLOWING FORMAT:                       * 00800000
//*                                                                * 00810000
//* //INF.USERSUBF DD .....                                     * 00820000
//*                                                                * 00830000
//* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD    * 00840000
//* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:              * 00850000
//*                                                                * 00860000
//* //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS             * 00870000
//*****                                         00880000
//* PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE:      * 00890000
//*****                                         00900000
//INF.INFIN DD *                                                00910000
//          PLACE QUERY STATEMENTS HERE                00920000

```

Figure A-23 INFOSB — JCL to Run the Batch Simulator with Access to Non-DL/I Databases (No DB2 Access) (Page 2 of 2)

INFOSBI

```

// * MEMBER INFOSBI                                00010000
// *****                                00020000
// * PROCEDURE TO RUN THE BATCH SIMULATOR WITH ACCESS TO DLI DATABASES.* 00030004
// * *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00040004
// * THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00050004
// * ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00060004
// * CONCATENATED TO THE INF.STEPLIB DD STATEMENTS. * 00070004
// *****                                00080000
// INFOSB PROC RGN=,                                00090000
// LOADLIB=,                                        00100000
// SORTLIB=,                                        00110000
// RESLIB=,                                        00120000
// PSBLIB=,                                        00130001
// DBDLIB=,                                        00140001
// PSB=,                                            00150000
// INFCOM=,                                        00160001
// FGLIB=,                                        00170000
// BGLIB=,                                        00180001
// REPORTS=,                                       00190003
// HCSCFG=,                                       00200005
// HTMLTPL=,                                       00210005
// PROG=                                           00220001
// VER EXEC PGM=IDCAMS,REGION=512K                00230000
// INFORMLF DD DISP=SHR,DSN=&FGLIB                00240000
// INFORMCF DD DISP=SHR,DSN=&INFCOM                00250000
// BGLIB DD DISP=SHR,DSN=&BGLIB                   00260000
// SYSPRINT DD SYSOUT=*                          00270000
// INF EXEC PGM=DFSRR00,REGION=&RGN,PARM='DLI,&PROG,&PSB' 00280001
// STEPLIB DD DISP=SHR,DSN=&LOADLIB               00290000
// DD DISP=SHR,DSN=&RESLIB                       00300000
// IMS DD DISP=SHR,DSN=&PSBLIB                   00310003
// DD DISP=SHR,DSN=&DBDLIB                       00320003
// IEFORDER DD DUMMY                            00330000
// DFSRESLB DD DISP=SHR,DSN=&RESLIB               00340003
// M4LIB DD DISP=SHR,DSN=&BGLIB                   00350000
// M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2))         00360000
// SYSOUT DD SYSOUT=*                            00370000
// SORTLIB DD DISP=SHR,DSN=&SORTLIB               00380000
// SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA   00390000
// SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=SORTWK01) 00400000
// SORTWK03 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)) 00410000
// DD UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02))         00420000
// INFORMLF DD DISP=SHR,DSN=&FGLIB               00430000
// INFORMCF DD DISP=SHR,DSN=&INFCOM               00440000
// INFPRINT DD SYSOUT=*                          00450000
// INFLIST DD SYSOUT=*                            00460000
// HCSCFG DD DISP=SHR,DSN=&HCSCFG                00470005
// M4HTBASE DD DISP=SHR,DSN=&HTMLTPL              00480005
// INFREPT DD DISP=OLD,DSN=&REPORTS               00490000
// PEND                                           00500000
// *****                                00510000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00520000
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00530001
// * * 00540000
// * RGN - THE REGION SIZE (DEFAULT 1800K). * 00550002
// * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00560002
// * SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00570002
// * RESLIB - THE IMS RESLIB (DEFAULT IMSVS.RESLIB). * 00580002
// * PSBLIB - THE PSB LIBRARY. * 00590002
// * DBDLIB - THE DBD LIBRARY. * 00600002
// * PSB - THE INFORM PSB NAME (DEFAULT INFOSB). * 00610002
// * INFCOM - THE INFORM COMMUNICATION FILE. * 00620002
// * FGLIB - THE INFORM FOREGROUND LIBRARY. * 00630002

```

Figure A-24 INFOSBI — JCL to Run the Batch Simulator with Access to DLI/
Databases (No DB2 Access) (Page 1 of 2)


```

/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00640002
/* REPORTS - THE DATASET FOR PRINTED REPORTS. * 00650003
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00660005
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00670005
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00680005
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00690005
/* HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00700005
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00710005
/* THE INSTALLATION SOURCE LIBRARY. * 00720005
/* PROG - THE BATCH SIMULATOR PROGRAM NAME (DEFAULT INFORMDL). * 00730002
/******
//INF EXEC INFOSB, 00740000
// RGN=1800K, 00750000
// LOADLIB='INFORM.LOADLIB', 00760000
// SORTLIB='SYS1.SORTLIB', 00770001
// RESLIB='IMSVS.RESLIB', 00780001
// PSBLIB='USER.PSBLIB', 00790001
// DBDLIB='USER.DBDLIB', 00800000
// PSB=INFOSB, 00810000
// INFCOM='INFORM.INFCOM', 00820000
// FGLIB='INFORM.FGLIB', 00830001
// BGLIB='INFORM.BGLIB', 00840001
// REPORTS='INFORM.REPORTS', 00850001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', 00860003
// HTMLTPL='INFORM.SRCLIB', 00870005
// PROG=INFORMDL 00880005
//VER.SYSIN DD * 00890001
// VERIFY FILE(INFORMLF) 00900000
// VERIFY FILE(INFORMCF) 00910000
// VERIFY FILE(BGLIB) 00920000
//INF.DFSVSAMP DD * 00930000
8192,6 00940000
//***** 00950000
/* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 00960000
/* THE BATCH SIMULATOR HERE. USE THE FOLLOWING FORMAT: * 00970000
/* * 00980000
/* //INF.USERFILE DD ..... * 00990000
/* * 01000000
/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01010000
/* EACH SUBFILE WITH THE FOLLOWING FORMAT: * 01020000
/* * 01030000
/* //INF.USERSUBF DD ..... * 01040000
/* * 01050000
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01060000
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT: * 01070000
/* * 01080000
/* //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01090000
/****** 01100000
/* PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE: * 01110000
/****** 01120000
//INF.INFIN DD * 01130000
// PLACE QUERY STATEMENTS HERE 01140000
01150000

```

Figure A-24 INFOSBI — JCL to Run the Batch Simulator with Access to DL/I Databases (No DB2 Access) (Page 2 of 2)

INIT

```

/* MEMBER INIT
*****
/* THIS JOB CONTAINS THREE PROCEDURES TO DEFINE AND INITIALIZE THE
/* FOREGROUND AND BACKGROUND LIBRARIES, AND THE COMMUNICATIONS FILE.
*****
//FGINIT PROC LOADLIB=,
//
//FGLIB EXEC PGM=IDCAMS,REGION=512K
//SYSPRINT DD SYSOUT=*
//FGINITL EXEC PGM=INFORMUI,REGION=512K
//STEPLIB DD DISP=SHR,DSN=&LOADLIB
//INFPRINT DD SYSOUT=*
//INFORMLF DD DISP=SHR,DSN=&FGLIB
// PEND
//COMINIT PROC LOADLIB=,
//
//INFCOM=
//DEFBGM EXEC PGM=IDCAMS,REGION=512K
//SYSPRINT DD SYSOUT=*
//INITCOM EXEC PGM=INFORMUI,REGION=512K
//STEPLIB DD DISP=SHR,DSN=&LOADLIB
//INFPRINT DD SYSOUT=*
//INFORMCF DD DISP=SHR,DSN=&INFCOM
// PEND
//BGINIT PROC LOADLIB=,
//
//BGLIB=
//DEFBGM EXEC PGM=IDCAMS,REGION=512K
//SYSPRINT DD SYSOUT=*
//INITBG EXEC PGM=MARKUTIL,REGION=512K
//STEPLIB DD DISP=SHR,DSN=&LOADLIB
//M4LIST DD SYSOUT=*
//M4WORK DD DUMMY
//M4LIB DD DISP=OLD,DSN=&BGLIB
// PEND
*****
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THESE PROCEDURES.
/* BEFORE YOU RUN THESE PROCEDURES, SPECIFY:
/*
/* FGLIB - THE INFORM FOREGROUND LIBRARY.
/* INFCOM - THE INFORM COMMUNICATION FILE.
/* BGLIB - THE INFORM BACKGROUND LIBRARY.
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.
*****
/* FOR FGINIT, ALSO CHANGE THE FGLIB.SYSIN STATEMENTS:
/*
/* NAME('INFORM.FGLIB')
/* NAME('INFORM.FGLIB.DATA')
/* VOL('VOLUME')
/* OWNER('USER')
/*
/* REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION
/* ABOUT CHANGING THE DCB ATTRIBUTES.
/*
/* *** DO NOT MAKE ANY CHANGES IN FGINITL.INFIN ***
/* *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. ***
*****
//FGINIT EXEC FGINIT,
//
// LOADLIB='INFORM.LOADLIB',
//
// FGLIB='INFORM.FGLIB'
//FGLIB.SYSIN DD *
//DELETE ('INFORM.FGLIB') CLUSTER PURGE
//DEFINE CLUSTER -
// (NAME('INFORM.FGLIB') -
// VOL('VOLUME') -

```

Figure A-25 INIT — JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 1 of 3)

```

RECORDS (385) - 00640000
SHAREOPTIONS (2 3) - 00650000
WRITECHECK NUMBERED - 00660000
OWNER('USER')) - 00670000
DATA (NAME('INFORM.FGLIB.DATA') - 00680001
CONTROLINTERVALSIZE(4096) - 00690000
RECORDSIZE(4088 4088)) 00700000
//FGINITL.INFIN DD * 00710001
ULSLIB 00720000
//***** 00730000
//* FOR COMINIT, ALSO CHANGE THE DEFCOM.INFIN STATEMENTS: * 00740000
//* * 00750000
//* NAME('INFORM.INFCOM') * 00760001
//* NAME('INFORM.INFCOM.DATA') * 00770001
//* VOL('VOLUME') * 00780000
//* OWNER('USER') * 00790000
//* * 00800000
//* REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION * 00810000
//* ABOUT CHANGING THE DCB ATTRIBUTES. * 00820000
//* * 00830000
//* *** DO NOT MAKE ANY CHANGES IN INITCOM.INFIN *** * 00840000
//* *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. *** * 00850000
//***** 00860000
//COMINIT EXEC COMINIT, 00870000
// LOADLIB='INFORM.LOADLIB', 00880001
// INFCOM='INFORM.INFCOM' 00890001
//DEFCOM.SYSIN DD * 00900000
DELETE ('INFORM.INFCOM') CLUSTER PURGE 00910001
DEFINE CLUSTER - 00920000
(NAME('INFORM.INFCOM') - 00930001
VOL('VOLUME') - 00940000
RECORDS(409) - 00950000
SHAREOPTIONS(3 3) - 00960000
WRITECHECK NUMBERED - 00970000
OWNER('USER')) - 00980000
DATA (NAME('INFORM.INFCOM.DATA') - 00990001
CONTROLINTERVALSIZE(4096) - 01000000
RECORDSIZE(4088 4088) - 01010000
BUFFERSPACE(8192)) 01020000
//INITCOM.INFIN DD * 01030000
ULSCOM 01040000
//***** 01050000
//* FOR BGINIT, ALSO CHANGE THE DEFBG.SYSIN STATEMENTS: * 01060000
//* * 01070000
//* NAME('INFORM.BGLIB') * 01080001
//* NAME('INFORM.BGLIB.DATA') * 01090001
//* VOL('VOLUME') * 01100000
//* OWNER('USER') * 01110000
//* * 01120000
//* REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION * 01130000
//* ABOUT CHANGING THE DCB ATTRIBUTES. * 01140000
//* * 01150000
//* *** DO NOT MAKE ANY CHANGES IN INITBG.M4INPUT *** * 01160000
//* *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. *** * 01170000
//***** 01180000
//BGINIT EXEC BGINIT, 01190000
// LOADLIB='INFORM.LOADLIB', 01200001
// BGLIB='INFORM.BGLIB' 01210001
//DEFBG.SYSIN DD * 01220000
DELETE 'INFORM.BGLIB' CLUSTER PURGE 01230001
DEFINE CLUSTER - 01240000
(NAME('INFORM.BGLIB') - 01250001
VOL('VOLUME') - 01260000

```

Figure A-25 INIT — JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 2 of 3)

```

CYLINDERS(1 1) - 01270000
SHAREOPTIONS(3 3) - 01280000
CONTROLINTERVALSIZE(4096) - 01290000
RECORDSIZE(507 507) - 01300000
WRITECHECK NUMBERED - 01310000
OWNER('USER') - 01320000
DATA(NAME('INFORM.BGLIB.DATA')) 01330001
//INITBG.M4INPUT DD * 01340000
UCINIT 01350000
```

Figure A-25 INIT — JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 3 of 3)

INIT2

```

// * MEMBER INIT2                                00010000
// *****                                00020000
// * THIS JOB CONTAINS THREE PROCEDURES TO DEFINE AND INITIALIZE THE * 00030000
// * FOREGROUND AND BACKGROUND LIBRARIES, AND THE COMMUNICATIONS FILE. * 00040000
// * THIS JOB SHOULD BE USED IF YOU ARE USING THE HOSTCONNECT SERVER * 00050000
// * CLIENT OR IF YOU DESIRE TO ESTABLISH CONCURRENT UPDATE ACCESS TO * 00060000
// * THE FOREGROUND LIBRARY. * 00070000
// *****                                00080000
// FGINIT PROC LOADLIB=,                          00090000
// FGLIB=                                          00100000
// FGLIB EXEC PGM=IDCAMS,REGION=512K              00110000
// SYSPRINT DD SYSOUT=*                          00120000
// FGINITL EXEC PGM=INFORMUI,REGION=512K          00130000
// STEPLIB DD DISP=SHR,DSN=&LOADLIB              00140000
// INFPRINT DD SYSOUT=*                          00150000
// INFORMLF DD DISP=SHR,DSN=&FGLIB               00160000
// PEND                                           00170000
// COMINIT PROC LOADLIB=,                        00180000
// INFCOM=                                        00190000
// DEFCON EXEC PGM=IDCAMS,REGION=512K            00200000
// SYSPRINT DD SYSOUT=*                          00210000
// INITCOM EXEC PGM=INFORMUI,REGION=512K          00220000
// STEPLIB DD DISP=SHR,DSN=&LOADLIB              00230000
// INFPRINT DD SYSOUT=*                          00240000
// INFORMCF DD DISP=SHR,DSN=&INFCOM              00250000
// PEND                                           00260000
// BGINIT PROC LOADLIB=,                        00270000
// BGLIB=                                        00280000
// DEFBG EXEC PGM=IDCAMS,REGION=512K            00290000
// SYSPRINT DD SYSOUT=*                          00300000
// INITBG EXEC PGM=MARKUTIL,REGION=512K          00310000
// STEPLIB DD DISP=SHR,DSN=&LOADLIB              00320000
// M4LIST DD SYSOUT=*                            00330000
// M4WORK DD DUMMY                               00340000
// M4LIB DD DISP=OLD,DSN=&BGLIB                  00350000
// PEND                                           00360000
// *****                                00370000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THESE PROCEDURES. * 00380000
// * BEFORE YOU RUN THESE PROCEDURES, SPECIFY: * 00390000
// * * 00400000
// * FGLIB - THE INFORM FOREGROUND LIBRARY. * 00410000
// * INFCOM - THE INFORM COMMUNICATION FILE. * 00420000
// * BGLIB - THE INFORM BACKGROUND LIBRARY. * 00430000
// * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00440000
// *****                                00450000
// * FOR FGINIT, ALSO CHANGE THE FGLIB.SYSIN STATEMENTS: * 00460000
// * * 00470000
// * NAME('INFORM.FGLIB') * 00480000
// * NAME('INFORM.FGLIB.DATA') * 00490000
// * VOL('VOLUME') * 00500000
// * OWNER('USER') * 00510000
// * * 00520000
// * REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION * 00530000
// * ABOUT CHANGING THE DCB ATTRIBUTES. * 00540000
// * * 00550000
// * *** DO NOT MAKE ANY CHANGES IN FGINITL.INFIN *** * 00560000
// * *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. *** * 00570000
// *****                                00580000
// FGINIT EXEC FGINIT,                          00590000
// LOADLIB='INFORM.LOADLIB',                    00600000
// FGLIB='INFORM.FGLIB'                        00610000
// FGLIB.SYSIN DD *                            00620000
// DELETE ('INFORM.FGLIB') CLUSTER PURGE        00630000

```

Figure A-26 INIT2 —Alternative JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 1 of 3)

```

DEFINE CLUSTER -                                00640000
    (NAME('INFORM.FGLIB') -                     00650000
    VOL('VOLUME') -                             00660000
    RECORDS(385) -                              00670000
    SHAREOPTIONS(3 3) -                         00690000
    WRITECHECK NUMBERED -                      00700000
    OWNER('USER')) -                           00710000
    DATA(NAME('INFORM.FGLIB.DATA') -          00720000
    CONTROLINTERVALSIZE(4096) -                 00730000
    RECORDSIZE(4088 4088) -                    00740001
    BUFFERSPACE(8192))                         00741001
//FGINITL.INFIN DD *                          00750000
ULSLIB                                         00760000
//*****                                         00770000
//** FOR COMINIT, ALSO CHANGE THE DEFCOM.INFIN STATEMENTS: * 00780000
//**                                         * 00790000
//**     NAME('INFORM.INFCOM')                 * 00800000
//**     NAME('INFORM.INFCOM.DATA')            * 00810000
//**     VOL('VOLUME')                         * 00820000
//**     OWNER('USER')                        * 00830000
//**                                         * 00840000
//** REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION * 00850000
//** ABOUT CHANGING THE DCB ATTRIBUTES.        * 00860000
//**                                         * 00870000
//** *** DO NOT MAKE ANY CHANGES IN INITCOM.INFIN *** * 00880000
//** *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. *** * 00890000
//*****                                         00900000
//COMINIT EXEC COMINIT,                      00910000
//      LOADLIB='INFORM.LOADLIB',            00920000
//      INFCOM='INFORM.INFCOM'                00930000
//DEFCOM.SYSIN DD *                          00940000
DELETE ('INFORM.INFCOM') CLUSTER PURGE      00950000
DEFINE CLUSTER -                            00960000
    (NAME('INFORM.INFCOM') -                 00970000
    VOL('VOLUME') -                         00980000
    RECORDS(409) -                         00990000
    SHAREOPTIONS(3 3) -                    01000000
    WRITECHECK NUMBERED -                  01010000
    OWNER('USER')) -                       01020000
    DATA(NAME('INFORM.INFCOM.DATA') -      01030000
    CONTROLINTERVALSIZE(4096) -             01040000
    RECORDSIZE(4088 4088) -                01050000
    BUFFERSPACE(8192))                     01060000
//INITCOM.INFIN DD *                        01070000
ULSCOM                                         01080000
//*****                                         01090000
//** FOR BGINIT, ALSO CHANGE THE DEFBG.SYSIN STATEMENTS: * 01100000
//**                                         * 01110000
//**     NAME('INFORM.BGLIB')                  * 01120000
//**     NAME('INFORM.BGLIB.DATA')             * 01130000
//**     VOL('VOLUME')                         * 01140000
//**     OWNER('USER')                        * 01150000
//**                                         * 01160000
//** REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR INFORMATION * 01170000
//** ABOUT CHANGING THE DCB ATTRIBUTES.        * 01180000
//**                                         * 01190000
//** *** DO NOT MAKE ANY CHANGES IN INITBG.M4INPUT *** * 01200000
//** *** DELETE CLUSTER STMTS ARE PROVIDED FOR RERUNS ONLY. *** * 01210000
//*****                                         01220000
//BGINIT EXEC BGINIT,                       01230000
//      LOADLIB='INFORM.LOADLIB',            01240000
//      BGLIB='INFORM.BGLIB'                 01250000
//DEFBG.SYSIN DD *                          01260000
DELETE 'INFORM.BGLIB' CLUSTER PURGE        01270000
DEFINE CLUSTER -                            01280000
    (NAME('INFORM.BGLIB') -                 01290000
    VOL('VOLUME') -                         01300000

```

Figure A-26 INIT2 —Alternative JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 2 of 3)

```

CYLINDERS(1 1) - 01310000
SHAREOPTIONS(3 3) - 01320000
CONTROLINTERVALSIZE(4096) - 01330000
RECORDSIZE(507 507) - 01340000
WRITECHECK NUMBERED - 01350000
OWNER('USER')) - 01360000
DATA(NAME('INFORM.BGLIB.DATA')) 01370000
//INITBG.M4INPUT DD * 01380000
UCINIT 01390000
```

Figure A-26 INIT2 —Alternative JCL to Initialize the Foreground Library, the Communication File, and the Background Library (Page 3 of 3)

INQRYQS

```

/* MEMBER INQRYQS                                00010000
/******                                00020000
/* UTILITY TO CONVERT VISION:INQUIRY FILE DEFINITIONS INTO * 00030000
/* VISION:INFORM FORMAT FILE DEFINITIONS. * 00040000
/* THE VISION:INQUIRY FILE DEFINITIONS MUST COME FROM A * 00050000
/* VISION:INQUIRY UNLOADED SYSTEM DATABASE FILE. SEE YOUR * 00060000
/* VISION:INQUIRY TECHNICAL REFERENCE MANUAL FOR INFORMATION ON * 00070000
/* HOW TO CREATE AN UNLOADED COPY OF THE SYSTEM DATABASE. * 00080000
/* * 00090000
/* THIS UTILITY MAY ALSO BE INVOKED INTERACTIVELY UNDER TSO/ISPF * 00100000
/* USING THE DEFINITION PROCESSOR IMPORT FUNCTION. * 00110000
/******                                00120000
//INQRYQS PROC RGN=2M,                                00130000
//          LOADLIB=,                                00140000
//          ULSYSDB=,                                00150000
//          DEFLIB=                                00160000
//INQRYQS EXEC PGM=INQRYQS,REGION=&RGN                00170000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                    00180000
//SYSPRINT DD SYSOUT=*                                00190000
//SYSUT1 DD DISP=SHR,DSN=&ULSYSDB                     00200000
//SYS004 DD DISP=OLD,DSN=&DEFLIB                      00210000
//          PEND                                00220000
/******                                00230000
/* FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE YOU * 00240000
/* RUN THIS PROCEDURE, SPECIFY: * 00250000
/* * 00260000
/* RGN - THE REGION SIZE; DEFAULT IS 2M. * 00270000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00280000
/* ULSYSDB - THE UNLOADED VISION:INQUIRY SYSTEM DATABASE FILE. * 00290000
/* DEFLIB - THE INFORM DEFINITION LIBRARY. * 00300000
/******                                00310000
//STEP01 EXEC INQRYQS,RGN=2M,                                00320000
//          LOADLIB='INFORM.LOADLIB',                00330000
//          ULSYSDB='VISION.INQUIRY.UNLOADED.SYSDBASE', 00340000
//          DEFLIB='INFORM.DEFLIB'                    00350000
//SYSIN DD *                                00360000
//          FILEGEN NAME=VSHPLANT,FLDPREFX=PLT          00370000
//          FILEGEN NAME=SALARIES,FLDPREFX=SAL          00380000

```

Figure A-27 INQRYQS — JCL to Run the VISION:Inquiry Quick Start Utility to Convert VISION:Inquiry File Definitions into VISION:Inform File Definition Format

LBBACKUP

```

// * MEMBER LBBACKUP 00010000
// ***** 00020000
// * THIS PROCEDURE CREATES BACKUP COPIES OF THE BACKGROUND LIBRARY * 00030000
// * AND FOREGROUND LIBRARY ON A TAPE DEVICE. * 00040001
// ***** 00050000
// LBBACKUP PROC FGLIB=, 00060000
// BGLIB=, 00070001
// LOADLIB=, 00080001
// NAMEFG=, 00090001
// FGFILNO=, 00100001
// NAMEBG=, 00110001
// BGFILNO=, 00120001
// UNIT=, 00130001
// VOLSER= 00140001
// VER EXEC PGM=IDCAMS,REGION=512K 00150001
// FGLIB DD DISP=SHR,DSN=&FGLIB 00160001
// BGLIB DD DISP=SHR,DSN=&BGLIB 00170001
// SYSPRINT DD SYSOUT=* 00180001
// BACKBG EXEC PGM=MARKUTIL,REGION=512K 00190001
// STEPLIB DD DISP=SHR,DSN=&LOADLIB 00200001
// M4LIST DD SYSOUT=* 00210001
// M4LIB DD DISP=SHR,DSN=&BGLIB 00220003
// M4WORK DD DISP=(,CATLG,DELETE),DSN=&NAMEBG, 00230001
// UNIT=&UNIT,VOL=SER=&VOLSER,LABEL=(&BGFILNO,SL) 00240001
// BACKFG EXEC PGM=INFORMUD,REGION=512K 00250001
// STEPLIB DD DISP=SHR,DSN=&LOADLIB 00260001
// INFPRINT DD SYSOUT=* 00270001
// INFORMLF DD DISP=SHR,DSN=&FGLIB 00280001
// INBACKUP DD DISP=(NEW,KEEP),DSN=&NAMEFG,UNIT=&UNIT,VOL=SER=&VOLSER, 00290001
// LABEL=(&FGFILNO,SL) 00300001
// PEND 00310001
// ***** 00320000
// * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00330002
// * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00340001
// * * 00350000
// * FGLIB - THE INFORM FOREGROUND LIBRARY. * 00360001
// * BGLIB - THE INFORM BACKGROUND LIBRARY. * 00370001
// * LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00380001
// * NAMEFG - NAME OF THE FOREGROUND LIBRARY BACKUP DATA SET. * 00390000
// * FGFILNO - THE NUMBER OF THE TAPE FILE TO CONTAIN THE BACKUP OF * 00400001
// * THE FOREGROUND LIBRARY. THE DEFAULT IS 2. * 00410001
// * NAMEBG - NAME OF THE BACKGROUND LIBRARY BACKUP DATA SET. * 00420000
// * BGFILNO - THE NUMBER OF THE TAPE FILE TO CONTAIN THE BACKUP OF * 00430000
// * THE BACKGROUND LIBRARY. THE DEFAULT IS 1. * 00440000
// * UNIT - THE UNIT OF THE BACKUP FILE. THE DEFAULT IS TAPE. * 00450000
// * VOLSER - THE VOLUME SERIAL NUMBER OF THE BACKUP FILE. * 00460000
// * * 00470000
// * *** NOTE *** DO NOT ALTER THE BACKBG.M4INPUT STATEMENT. * 00480001
// ***** 00490000
// BACKUP EXEC LBBACKUP, 00500000
// FGLIB='INFORM.FGLIB', 00510001
// BGLIB='INFORM.BGLIB', 00520001
// LOADLIB='INFORM.LOADLIB', 00530001
// NAMEFG='INFORM.BACKUP.FGLIB', 00540001
// FGFILNO=2, 00550001

```

Figure A-28 LBBACKUP — JCL to Back up the Foreground and Background Libraries (Page 1 of 2)

```
//          NAMEBG='INFORM.BACKUP.BGLIB',          00560001
//          BGFILNO=1,                             00570000
//          UNIT=TAPE,                              00580000
//          VOLSER=XXXXXX                          00590000
//VER.SYSIN DD *                                   00600000
//          VERIFY FILE(FGLIB)                     00610000
//          VERIFY FILE(BGLIB)                     00620000
//BACKBG.M4INPUT DD *                             00630001
//          UCDUMP                                  00640000
```

Figure A-28 LBBACKUP — JCL to Back up the Foreground and Background Libraries (Page 2 of 2)

LBRESTOR

```

/* MEMBER LBRESTOR                                00010000
/******                                           00020000
/* THIS PROCEDURE RESTORES THE FOREGROUND AND BACKGROUND LIBRARIES * 00030000
/* FROM BACKUP DATASETS CREATED BY THE LBBACKUP JOB. THIS JOB      * 00040000
/* ASSUMES THAT THE BACKUP FILES ARE ON TAPE.                      * 00050000
/******                                           00060000
//LBRESTOR PROC FGLIB=,                                00070000
//      BGLIB=,                                00080001
//      LOADLIB=,                                00090001
//      NAMEBG=,                                00100001
//      NAMEFG=,                                00110001
//      BGFILNO=,                                00120001
//      FGFILNO=,                                00130001
//      UNIT=,                                00140001
//      VOLSER=,                                00150001
//DEFFG EXEC PGM=IDCAMS,REGION=512K                00160001
//SYSPRINT DD SYSOUT=*                            00170000
//RESTBG EXEC PGM=MARKUTIL,REGION=512K             00180001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                 00190003
//M4LIB DD DISP=OLD,DSN=&BGLIB                     00200003
//M4LIST DD SYSOUT=*                              00210001
//M4WORK DD DISP=OLD,DSN=&NAMEBG,LABEL=(&BGFILNO,SL), 00220003
//      UNIT=&UNIT,VOL=SER=&VOLSER                 00230001
//DEFFG EXEC PGM=IDCAMS,REGION=512K                00240001
//SYSPRINT DD SYSOUT=*                            00250001
//RESTFG EXEC PGM=INFORMUR,REGION=512K             00260001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                 00270001
//INFPRINT DD SYSOUT=*                            00280001
//INFORMLF DD DISP=SHR,DSN=&FGLIB                  00290001
//INBACKUP DD DISP=OLD,DSN=&NAMEFG,UNIT=&UNIT,VOL=SER=&VOLSER, 00300001
//      LABEL=(&FGFILNO,SL)                      00310001
//      PEND                                     00320001
/******                                           00330000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE.        * 00340002
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:                      * 00350001
/**                                                         * 00360000
/** FGLIB - THE INFORM FOREGROUND LIBRARY.                      * 00370001
/** BGLIB - THE INFORM BACKGROUND LIBRARY.                      * 00380001
/** LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.            * 00390001
/** NAMEBG - NAME OF THE BACKUP FILE FOR THE BACKGROUND LIBRARY. * 00400000
/** NAMEFG - NAME OF THE BACKUP FILE FOR THE FOREGROUND LIBRARY. * 00410001
/** BGFILNO - THE NUMBER OF THE TAPE FILE CONTAINING THE BACKGROUND * 00420000
/**      LIBRARY BACKUP DATA. DEFAULT = 1.                    * 00430000
/** FGFILNO - THE NUMBER OF THE TAPE FILE CONTAINING THE FOREGROUND * 00440000
/**      LIBRARY BACKUP DATA. DEFAULT = 2.                    * 00450000
/** UNIT - THE UNIT OF THE BACKUP FILE. THE DEFAULT IS TAPE.    * 00460000
/** VOLSER - THE VOLUME SERIAL NUMBER OF THE BACKUP FILE.       * 00470000
/**                                                         * 00480000
/** CHANGE THE DEFFG.SYSIN SPECIFICATION AS YOU DID FOR THE     * 00490000
/** INIT PROCEDURE.                                             * 00500000
/**      NAME('INFORM.FGLIB')                               * 00510001
/**      NAME('INFORM.FGLIB.DATA')                           * 00520001
/**      VOL('VOLUME')                                       * 00530000
/**      OWNER('USER')                                       * 00540000
/**                                                         * 00550000
/** CHANGE THE DEFFG.SYSIN SPECIFICATIONS:                     * 00560000
/**                                                         * 00570000
/**      NAME('INFORM.BGLIB')                               * 00580001
/**      VOL('VOLUME')                                       * 00590000
/**      OWNER('USER')                                       * 00600000
/**      NAME('INFORM.BGLIB.DATA')                           * 00610001
/**                                                         * 00620000
/** REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR MORE     * 00630000

```

Figure A-29 LBRESTOR — JCL to Restore the Foreground and Background Libraries
(Page 1 of 2)

```

/* INFORMATION. * 00640000
/***** 00650000
/* **** NOTE **** DO NOT ALTER THE RESTBG.M4INPUT STATEMENT. * 00660000
/***** 00670000
//RESTORE EXEC LBRESTOR, 00680000
// FGLIB='INFORM.FGLIB', 00690001
// BGLIB='INFORM.BGLIB', 00700001
// LOADLIB='INFORM.LOADLIB', 00710001
// NAMEBG='INFORM.BACKUP.BGLIB', 00720001
// NAMEFG='INFORM.BACKUP.FGLIB', 00730001
// BGFILNO=1, 00740000
// FGFILNO=2, 00750000
// UNIT=TAPE, 00760000
// VOLSER=XXXXXX 00770000
//DEFBG.SYSIN DD * 00780000
DELETE 'INFORM.BGLIB' CLUSTER PURGE 00790001
DEFINE CLUSTER - 00800000
(NAME('INFORM.BGLIB') - 00810001
VOL('VOLUME') - 00820000
CYL(1 1) - 00830000
SHAREOPTIONS(3 3) - 00840000
CONTROLINTERVALSIZE(4096) - 00850000
NUMBERED WRITECHECK - 00860000
RECORDSIZE(507 507) - 00870000
OWNER('USER')) - 00880000
DATA(NAME('INFORM.BGLIB.DATA')) 00890001
//RESTBG.M4INPUT DD * 00900000
UCREST 00910000
//DEFFG.SYSIN DD * 00920000
DELETE 'INFORM.FGLIB' CLUSTER PURGE 00930001
DEFINE CLUSTER - 00940000
(NAME('INFORM.FGLIB') - 00950001
VOL('VOLUME') - 00960000
RECORDS(385) - 00970000
SHAREOPTIONS(2 3) - 00980000
WRITECHECK NUMBERED - 00990000
OWNER('USER')) - 01000000
DATA(NAME('INFORM.FGLIB.DATA')) - 01010001
CONTROLINTERVALSIZE(4096) - 01020000
RECORDSIZE(4088 4088)) 01030000

```

Figure A-29 LBRESTOR — JCL to Restore the Foreground and Background Libraries
(Page 2 of 2)

LBREST2

```

/* MEMBER LBREST2                                00010000
/******                                00020000
/* THIS PROCEDURE RESTORES THE FOREGROUND AND BACKGROUND LIBRARIES * 00030000
/* FROM BACKUP DATASETS CREATED BY THE LBBACKUP JOB.  THIS JOB * 00040000
/* ASSUMES THAT THE BACKUP FILES ARE ON TAPE. * 00050000
/* THIS JOB SHOULD BE USED IF YOU ARE USING THE HOSTCONNECT SERVER * 00060000
/* CLIENT OR IF YOU DESIRE TO ESTABLISH CONCURRENT UPDATE ACCESS TO * 00070000
/* THE FOREGROUND LIBRARY. * 00080000
/******                                00090000
//LBRESTOR PROC FGLIB=,                                00100000
//      BGLIB=,                                00110000
//      LOADLIB=,                                00120000
//      NAMEBG=,                                00130000
//      NAMEFG=,                                00140000
//      BGFILNO=,                                00150000
//      FGFILNO=,                                00160000
//      UNIT=,                                00170000
//      VOLSER=,                                00180000
//DEFBG EXEC PGM=IDCAMS,REGION=512K                                00190000
//SYSPRINT DD SYSOUT=*                                00200000
//RESTBG EXEC PGM=MARKUTIL,REGION=512K                                00210000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                                00220000
//M4LIB DD DISP=OLD,DSN=&BGLIB                                00230000
//M4LIST DD SYSOUT=*                                00240000
//M4WORK DD DISP=OLD,DSN=&NAMEBG,LABEL=(&BGFILNO,SL),                                00250000
//      UNIT=&UNIT,VOL=SER=&VOLSER                                00260000
//DEFFG EXEC PGM=IDCAMS,REGION=512K                                00270000
//SYSPRINT DD SYSOUT=*                                00280000
//RESTFG EXEC PGM=INFORMUR,REGION=512K                                00290000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                                00300000
//INFPRINT DD SYSOUT=*                                00310000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                                00320000
//INBACKUP DD DISP=OLD,DSN=&NAMEFG,UNIT=&UNIT,VOL=SER=&VOLSER,                                00330000
//      LABEL=(&FGFILNO,SL)                                00340000
//      PEND                                00350000
/******                                00360000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00370000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00380000
/* * 00390000
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00400000
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00410000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00420000
/* NAMEBG - NAME OF THE BACKUP FILE FOR THE BACKGROUND LIBRARY. * 00430000
/* NAMEFG - NAME OF THE BACKUP FILE FOR THE FOREGROUND LIBRARY. * 00440000
/* BGFILNO - THE NUMBER OF THE TAPE FILE CONTAINING THE BACKGROUND * 00450000
/*      LIBRARY BACKUP DATA.  DEFAULT = 1. * 00460000
/* FGFILNO - THE NUMBER OF THE TAPE FILE CONTAINING THE FOREGROUND * 00470000
/*      LIBRARY BACKUP DATA.  DEFAULT = 2. * 00480000
/* UNIT - THE UNIT OF THE BACKUP FILE. THE DEFAULT IS TAPE. * 00490000
/* VOLSER - THE VOLUME SERIAL NUMBER OF THE BACKUP FILE. * 00500000
/* * 00510000
/* CHANGE THE DEFFG.SYSIN SPECIFICATION AS YOU DID FOR THE * 00520000
/* INIT PROCEDURE. * 00530000
/*      NAME('INFORM.FGLIB') * 00540000
/*      NAME('INFORM.FGLIB.DATA') * 00550000
/*      VOL('VOLUME') * 00560000
/*      OWNER('USER') * 00570000
/* * 00580000
/* CHANGE THE DEFBG.SYSIN SPECIFICATIONS: * 00590000
/* * 00600000
/*      NAME('INFORM.BGLIB') * 00610000
/*      VOL('VOLUME') * 00620000
/*      OWNER('USER') * 00630000

```

Figure A-30 LBREST2 — Alternative JCL to Restore the Foreground and Background Libraries (Page 1 of 2)

```

//*          NAME('INFORM.BGLIB.DATA')          * 00640000
//*          * 00650000
//* REFER TO THE IBM ACCESS METHOD SERVICES MANUAL FOR MORE * 00660000
//* INFORMATION. * 00670000
//***** 00680000
//* **** NOTE **** DO NOT ALTER THE RESTBG.M4INPUT STATEMENT. * 00690000
//***** 00700000
//RESTORE EXEC LBRESTOR, 00710000
//          FGLIB='INFORM.FGLIB', 00720000
//          BGLIB='INFORM.BGLIB', 00730000
//          LOADLIB='INFORM.LOADLIB', 00740000
//          NAMEBG='INFORM.BACKUP.BGLIB', 00750000
//          NAMEFG='INFORM.BACKUP.FGLIB', 00760000
//          BGFILNO=1, 00770000
//          FGFILNO=2, 00780000
//          UNIT=TAPE, 00790000
//          VOLSER=XXXXXX 00800000
//DEFBG.SYSIN DD * 00810000
          DELETE 'INFORM.BGLIB' CLUSTER PURGE 00820000
          DEFINE CLUSTER - 00830000
              (NAME('INFORM.BGLIB') - 00840000
              VOL('VOLUME') - 00850000
              CYL(1 1) - 00860000
              SHAREOPTIONS(3 3) - 00870000
              CONTROLINTERVALSIZE(4096) - 00880000
              NUMBERED WRITECHECK - 00890000
              RECORDSIZE(507 507) - 00900000
              OWNER('USER')) - 00910000
              DATA(NAME('INFORM.BGLIB.DATA')) 00920000
//RESTBG.M4INPUT DD * 00930000
          UCREST 00940000
//DEFFG.SYSIN DD * 00950000
          DELETE 'INFORM.FGLIB' CLUSTER PURGE 00960000
          DEFINE CLUSTER - 00970000
              (NAME('INFORM.FGLIB') - 00980000
              VOL('VOLUME') - 00990000
              RECORDS(385) - 01000000
              SHAREOPTIONS(3 3) - 01020000
              WRITECHECK NUMBERED - 01030000
              OWNER('USER')) - 01040000
              DATA(NAME('INFORM.FGLIB.DATA')) - 01050000
              CONTROLINTERVALSIZE(4096) - 01060000
              RECORDSIZE(4088 4088) - 01070001
              BUFFERSPACE(8192)) 01080001

```

Figure A-30 LBREST2 — Alternative JCL to Restore the Foreground and Background Libraries (Page 2 of 2)

LIBCOPY

```

/* MEMBER LIBCOPY                                00010000
/******                                00020000
/* THIS PROCEDURE COPIES FOREGROUND LIBRARY ITEMS OF TYPE QUERY OR * 00030000
/* STMTS FROM ONE FOREGROUND LIBRARY TO ANOTHER. * 00040000
/******                                00050000
//LBCOPY PROC FROMLIB=,                          00060000
//      TOLIB=,                                  00070000
//      FRMLoad=,                                00080001
//      TOLOAD=,                                00090000
//      KOND=,                                  00100001
//      RGN=,                                   00110000
//VER EXEC PGM=IDCAMS,REGION=&RGN                00120000
//TOLIB DD DISP=SHR,DSN=&TOLIB                   00130000
//FROMLIB DD DISP=SHR,DSN=&FROMLIB               00140000
//SYSPRINT DD SYSOUT=*                          00150000
//FROM EXEC PGM=INFORMUX,REGION=&RGN             00160000
//STEPLIB DD DISP=SHR,DSN=&FRMLoad              00170000
//INFPRINT DD SYSOUT=*                          00180000
//INFORMLF DD DISP=SHR,DSN=&FROMLIB              00190000
//INBACKUP DD DISP=(NEW,PASS),DSN=&&COPY,UNIT=SYSDA, 00200000
//      SPACE=(TRK,(20,20))                    00210000
//TO EXEC PGM=INFORMUY,REGION=&RGN,COND=&KOND     00220001
//STEPLIB DD DISP=SHR,DSN=&TOLOAD               00230000
//INFPRINT DD SYSOUT=*                          00240000
//INFORMLF DD DISP=SHR,DSN=&TOLIB               00250000
//INBACKUP DD DISP=(OLD,PASS),DSN=&&COPY         00260002
//      PEND                                    00270000
//*****                                00280000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00290000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00300000
/* * 00310000
/* FROMLIB - THE SOURCE INFORM FOREGROUND LIBRARY. * 00320000
/* TOLIB - THE TARGET INFORM FOREGROUND LIBRARY. * 00330000
/* FRMLoad - THE SOURCE INFORM INSTALLATION LOAD LIBRARY. * 00340000
/* TOLOAD - THE TARGET INFORM INSTALLATION LOAD LIBRARY. * 00350000
/* KOND - CONDITION CODE FOR EXECUTION OF "TO" STEP. THE * 00360001
/*      DEFAULT IS (0,NE). * 00370000
/* RGN - REGION SIZE. DEFAULT IS 1M. * 00380000
/* * 00390000
/* YOU MUST ALSO SPECIFY THE ITEMS TO BE COPIED, THE NAMES TO BE * 00400000
/* USED IN THE TARGET FOREGROUND LIBRARY, AND OPTIONALLY SPECIFY * 00410000
/* THE REPLACE OPTION, AFTER THE "FROM.INFIN" DD STATEMENT. * 00420000
/******                                00430000
//COPY EXEC LBCOPY,                              00440000
//      FROMLIB='INFORM.TEST.FGLIB',           00450000
//      TOLIB='INFORM.PROD.FGLIB',             00460000
//      FRMLoad='INFORM.TEST.LOADLIB',         00470000
//      TOLOAD='INFORM.PROD.LOADLIB',          00480000
//      KOND='(0,NE)',                         00490001
//      RGN=1M                                 00500000
//VER.SYSIN DD *                                00510000
//      VERIFY FILE(FROMLIB)                   00520000
//      VERIFY FILE(TOLIB)                     00530000
//FROM.INFIN DD *                               00540000
//COPY name type userid TO name type userid    00550000
//COPY name type userid TO name type userid REPLACE 00560000

```

Figure A-31 LIBCOPY — JCL to Copy Items of Type QUERY or STMTS from One Foreground Library to Another Foreground Library

LINKLIB

```

/* MEMBER LINKLIB                                00010000
/*****                                00020000
/* LINK LIBRARIAN INTERFACE MODULES WITH COBOL QUICK START UTILITY. * 00030000
/*****                                00040000
//LINKL  PROC LOADLIB=,                          00050000
//      LIBLOAD=,                                00060001
//LINKL  EXEC PGM=IEWL,REGION=512K,PARM='LIST,MAP,LET,XREF,NCAL' 00070001
//SYSLIB  DD DISP=SHR,DSN=&LIBLOAD                00080004
//SYSPRINT DD SYSOUT=*                            00090001
//SYSUT1  DD UNIT=SYSDA,SPACE=(CYL,(1,1))          00100001
//LIBSYS  DD DISP=SHR,DSN=&LIBLOAD                 00110001
//LLIB    DD DISP=SHR,DSN=&LOADLIB                 00120001
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                 00130001
//      PEND                                       00140001
/*****                                00150000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00160001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00170001
/* * 00180000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00190001
/* LIBLOAD - THE LIBRARIAN SYSTEM LOAD LIBRARY. * 00200000
/*****                                00210000
//LINK  EXEC LINKL,                               00220000
//      LOADLIB='INFORM.LOADLIB',                 00230001
//      LIBLOAD='LIBRARIAN.SYSTEM.LOADLIB'         00240000
//LINKL.SYSLIN DD *                               00250000
//      INCLUDE LIBSYS (FAIRCLS)                   00260002
//      INCLUDE LIBSYS (FAIROPN)                   00270002
//      INCLUDE LIBSYS (FAIRREC)                   00280002
//      INCLUDE LIBSYS (FAIRMOD)                   00290002
//      INCLUDE LIBSYS (FAIRERR)                   00300002
//      INCLUDE LIBSYS (FAIRLOC)                   00310002
//      INCLUDE LIBSYS (FAIRNTE)                   00320002
//      INCLUDE LIBSYS (FAIRPNT)                   00330002
//      INCLUDE LIBSYS (FAIRSEC)                   00350002
//      INCLUDE LLIB (COMLIBL)                     00360002
//      ENTRY COMLIBL                              00370002
//      NAME COMLIBL (R)                           00380002

```

Figure A-32 LINKLIB — JCL to Link Edit the CA-Librarian Interface Modules with the COBOL Quick Start Utility

LINKLIBR

```

// * MEMBER LINKLIBR                                00010000
// *****                                          00020000
// * LINK LIBRARIAN INTERFACE MODULES WITH RESULTS QUICK START. * 00030000
// *****                                          00040000
// LBLNK PROC LOADLIB=,                                00050000
// LIBLOAD=                                           00060000
// LINK EXEC PGM=IEWL,REGION=1M,PARM='LIST,MAP,LET,NCAL' 00070000
// SYSLIB DD DISP=SHR,DSN=&LIBLOAD                   00080002
// SYSPRINT DD SYSOUT=*                               00090000
// SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))            00100000
// LIBSYS DD DISP=SHR,DSN=&LIBLOAD                    00110000
// SYSLMOD DD DISP=SHR,DSN=&LOADLIB                   00120000
// PEND                                              00130000
// *****                                          00140000
// * BEFORE SUBMITTING THIS JCL, YOU MUST SPECIFY THE FOLLOWING * 00150000
// * INFORMATION:                                     * 00160000
// *                                                 * 00170000
// *   LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00180000
// *   LIBLOAD - THE CA-LIBRARIAN SYSTEM LOAD LIBRARY. * 00190000
// *****                                          00200000
// LIBLINK EXEC LBLNK,                                00210000
// LOADLIB='INFORM.LOADLIB',                          00220000
// LIBLOAD='LIBRARN.SYSTEM.LOADLIB'                   00230000
// LINK.SYSLIN DD *                                   00240000
// INCLUDE LIBSYS (FAIRCLS)                          00250000
// INCLUDE LIBSYS (FAIROPN)                          00260000
// INCLUDE LIBSYS (FAIRREC)                          00270000
// INCLUDE LIBSYS (FAIRMOD)                          00280000
// INCLUDE LIBSYS (FAIRERR)                          00290000
// INCLUDE LIBSYS (FAIRLOC)                          00300000
// INCLUDE LIBSYS (FAIRNTE)                          00310000
// INCLUDE LIBSYS (FAIRPNT)                          00320000
// INCLUDE LIBSYS (FAIRSEC)                          00340000
// INCLUDE SYSLMOD (DYL280LX)                        00350000
// ENTRY DYL280L                                     00360000
// NAME DYL280L(R)                                   00370000

```

Figure A-33 LINKLIBR — JCL to Link Edit the CA-Librarian Interface with the VISION:Results Quick Start Utility

LINKPAN

```

/* * MEMBER LINKPAN                                00010000
/* *****                                00020000
/* * LINK PANVALET INTERFACE MODULES WITH COBOL QUICK START UTILITY. * 00030000
/* *****                                00040000
//LINKP  PROC LOADLIB=,                                00050000
//      PANLOAD=,                                00060001
//LINKP  EXEC PGM=IEWL,REGION=512K,PARM='LIST,MAP,LET,XREF,NCAL' 00070001
//SYSLIB DD DISP=SHR,DSN=&PANLOAD                    00080004
//SYSPRINT DD SYSOUT=*                                00090001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))             00100001
//LIBSYS DD DISP=SHR,DSN=&PANLOAD                    00110001
//LLIB DD DISP=SHR,DSN=&LOADLIB                      00120001
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                    00130001
//      PEND                                00140001
/* *****                                00150000
/* * THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00160001
/* * BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00170001
/* *                                * 00180000
/* *   LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00190001
/* *   PANLOAD - THE PANVALET SYSTEM LOAD LIBRARY. * 00200000
/* *****                                00210000
//LINK  EXEC LINKP,                                00220000
//      LOADLIB='INFORM.LOADLIB',                    00230001
//      PANLOAD='PANVALET.SYSTEM.LOADLIB'             00240000
//LINKP.SYSLIN DD *                                00250000
//      INCLUDE LIBSYS (PAM)                          00260000
//      INCLUDE LLIB (COMLIBP)                        00270002
//      ENTRY COMLIBP                                00280002
//      NAME COMLIBP (R)                              00290003

```

Figure A-34 LINKPAN — JCL to Link edit the CA-Panvalet Interface Modules with the COBOL Quick Start Utility

LINKPANR

```

// * MEMBER LINKPANR                                00010000
// *****                                00020000
// * LINK PANVALET INTERFACE MODULES WITH RESULTS QUICK START. * 00030000
// *****                                00040000
// PNLNK  PROC LOADLIB=,                                00050000
//                                PANLOAD=                00060000
// LINK   EXEC PGM=IEWL,REGION=1M,PARM='LIST,MAP,LET,NCAL' 00070000
// SYSLIB DD DISP=SHR,DSN=&PANLOAD                      00080001
// SYSPRINT DD SYSOUT=*                                00090000
// SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))              00100000
// LIBSYS DD DISP=SHR,DSN=&PANLOAD                      00110000
// SYSLMOD DD DISP=SHR,DSN=&LOADLIB                     00120000
//                                PEND                    00130000
// *****                                00140000
// * BEFORE SUBMITTING THIS JCL, YOU MUST SPECIFY THE FOLLOWING * 00150000
// * INFORMATION:                                           * 00160000
// *                                * 00170000
// *   LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.    * 00180000
// *   PANLOAD - THE CA-PANVALET SYSTEM LOAD LIBRARY.    * 00190000
// *****                                00200000
// PANLINK EXEC PNLNK,                                00210000
//                                LOADLIB='INFORM.LOADLIB', 00220000
//                                PANLOAD='PANVALET.SYSTEM.LOADLIB' 00230000
// LINK.SYSLIN DD *                                00240000
//                                INCLUDE LIBSYS(PAM)        00250000
//                                INCLUDE SYSLMOD(DYL280PX)  00260000
//                                ENTRY DYL280P              00270000
//                                NAME DYL280P(R)            00280000

```

Figure A-35 LINKPANR — JCL to Link Edit the CA-Panvalet Interface with the VISION:Results Quick Start Utility

LSXASMLK

```

/* MEMBER LSXASMLK                                00010000
/*****                                00020000
/* PROCEDURE TO ASSEMBLE/LINK A USER-WRITTEN INFREPT EXIT ROUTINE. * 00030000
/*****                                00040000
//LSXASMLK PROC SRCLIB=,                          00050000
//      MACLIB=,                                  00060000
//      LOADLIB=                                  00070000
//ASSEM EXEC PGM=ASMA90, PARM='NODECK,OBJECT,LIST',REGION=2M      00080001
//SYSLIB DD DISP=SHR,DSN=&MACLIB                    00090000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))            00100000
//SYSPRINT DD SYSOUT=*                              00110000
//SYSLIN DD DISP=(,PASS),DSN=&M4EXIT,UNIT=SYSDA,SPACE=(TRK,(1,1)) 00120000
//SYSIN DD DISP=SHR,DSN=&SRCLIB(LSTEXITR)            00130000
//LKED EXEC PGM=HEWL,REGION=2M,COND=(0,NE),          00140001
//      PARM='RENT,XREF,LET,LIST,NCAL,SIZE=(200K,56K) ' 00150000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(3,2))            00160000
//LSTEXITR DD DISP=(OLD,DELETE),DSN=&M4EXIT          00170000
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                   00180000
//SYSPRINT DD SYSOUT=*                              00190000
//      PEND                                         00200000
/*****                                00210000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00220000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00230000
/* * 00240000
/* SRCLIB - THE INFORM SOURCE LIBRARY NAME. * 00250000
/* MACLIB - THE INFORM MACRO LIBRARY NAME. * 00260000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY NAME. * 00270000
/*****                                00280000
//LSXASMLK EXEC LSXASMLK,                          00290000
//      SRCLIB='INFORM.SRCLIB',                    00300000
//      MACLIB='INFORM.MACLIB',                    00310000
//      LOADLIB='INFORM.LOADLIB'                   00320000
//LKED.SYSLIN DD *                                  00330000
INCLUDE LSTEXITR                                    00340000
NAME INFORMATX(R)                                  00350000

```

Figure A-36 LSXASMLK — JCL to Assemble and Link a User Written INFREPT Exit Routine

M4PASMLK

```

/* MEMBER M4PASMLK                                00010000
/******                                           00020000
/* THIS PROCEDURE ASSEMBLES AND LINKS THE INSTALLATION-DEPENDENT * 00030000
/* BACKGROUND PROCESSOR PARAMETER MODULE, M4PARAMS. * 00040000
/******                                           00050000
//M4PASMLK PROC LOADLIB=,                          00060000
//          SRCLIB=                                00070000
//ASSEM EXEC PGM=ASMA90,PARM='NODECK,OBJECT,LIST',REGION=2M 00080001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))           00090000
//SYSPRINT DD SYSOUT=*                             00100000
//SYSLIN DD DSN=&M4PARM,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(1,1)) 00110000
//SYSIN DD DISP=SHR,DSN=&SRCLIB(M4PARAMS)           00120000
//LKED1 EXEC PGM=HEWL,PARM='RENT,LET,LIST,NCAL,XREF',COND=(0,NE), 00130000
//          REGION=2M                               00140001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))           00150000
//M4PARAMS DD DISP=(OLD,PASS),DSN=&M4PARM           00160000
//SYSLMOD DD DISP=OLD,DSN=&LOADLIB                  00170000
//SYSPRINT DD SYSOUT=*                             00180000
//LKED2 EXEC PGM=HEWL,PARM='RENT,LET,LIST,NCAL,XREF',COND=(0,NE), 00190000
//          REGION=2M                               00200001
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))           00210000
//M4PARAMS DD DISP=(OLD,DELETE),DSN=&M4PARM         00220000
//SYSLMOD DD DISP=OLD,DSN=&LOADLIB                  00230000
//SYSPRINT DD SYSOUT=*                             00240000
//          PEND                                    00250000
/******                                           00260000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00270000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00280000
/* * 00290000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00300000
/* SRCLIB - SOURCE LIBRARY CONTAINING THE MODIFIED M4PARAMS SOURCE.* 00310000
/******                                           00320000
//M4PLINK EXEC M4PASMLK,                          00330000
//          LOADLIB='INFORM.LOADLIB',              00340000
//          SRCLIB='INFORM.SRCLIB'                 00350000
//LKED1.SYSLIN DD *                                00360000
//          INCLUDE M4PARAMS                        00370000
//          NAME INFORMMP(R)                        00380000
//LKED2.SYSLIN DD *                                00390000
//          INCLUDE M4PARAMS                        00400000
//          NAME M4PARAMS(R)                        00410000

```

Figure A-37 M4PASMLK — JCL to Assemble and Link the Background Processor Parameter Module M4PARAMS

MERGDEF

```

/* MEMBER MERGDEF                                00010000
/******                                00020000
/* THIS PROCEDURE DOES THE INITIAL CONVERSION OF DEFINITIONS FROM * 00030000
/* THE BACKGROUND LIBRARY TO THE FOREGROUND LIBRARY. WHEN RUN, ALL * 00040004
/* FILE DEFINITIONS AND LOGICAL DATAVIEWS IN THE FOREGROUND LIBRARY * 00050004
/* ARE DELETED, AND THEN ALL FILE DEFINITIONS AND LOGICAL DATAVIEWS * 00060004
/* ARE COPIED FROM THE SPECIFIED BACKGROUND LIBRARY TO THE * 00070004
/* FOREGROUND LIBRARY. * 00080004
/******                                00090000
//MERGDEF PROC FGLIB=,                                00100000
//                                BGLIB=,                                00110000
//                                LOADLIB=                                00120000
//VERIFY EXEC PGM=IDCAMS,REGION=512K                                00130000
//SYSPRINT DD SYSOUT=*                                00140000
//INFORMLF DD DISP=OLD,DSN=&FGLIB                                00150000
//BGLIB DD DISP=OLD,DSN=&BGLIB                                00160000
//DUMP EXEC PGM=MARKUTIL,REGION=512K                                00170000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                                00180000
//M4LIST DD SYSOUT=*                                00190000
//M4LIB DD DISP=SHR,DSN=&BGLIB                                00200000
//M4WORK DD DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(10,5)),DSN=&&M4WORK 00210002
//COPY EXEC PGM=INFORMUC,REGION=2M                                00220001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                                00230000
//M4WORK DD DISP=(OLD,DELETE),DSN=&&M4WORK                                00240000
//INFORMLF DD DISP=OLD,DSN=&FGLIB                                00250000
//INFPRINT DD SYSOUT=*                                00260000
//                                PEND                                00270000
/******                                00280000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00290003
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00300003
/* * 00310000
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00320002
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00330002
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00340002
/* * 00350000
/* *** NOTE *** DO NOT CHANGE THE VERIFY.SYSIN STATEMENT * 00360005
/* OR THE DUMP.M4INPUT STATEMENT * 00361005
/* OR THE COPY.INFIN STATEMENT BELOW. * 00362005
/******                                00370000
//MERGE EXEC MERGDEF,                                00380000
//                                FGLIB='INFORM.FGLIB',                                00390002
//                                BGLIB='INFORM.BGLIB',                                00400002
//                                LOADLIB='INFORM.LOADLIB'                                00410002
//VERIFY.SYSIN DD *                                00420000
//                                VERIFY FILE(INFORMLF)                                00430000
//                                VERIFY FILE(BGLIB)                                00440000
//DUMP.M4INPUT DD *                                00450000
//                                UCDDUMP                                00460000
//COPY.INFIN DD *                                00470005
$PROMOTE ALL                                00480005

```

Figure A-38 MERGDEF — JCL to Convert and Copy All the File and Logical Data View Definitions from the Background Library to the Foreground Library

MERGHLP

```

/* MEMBER MERGHLP
/******
/* EXECUTE THE FIELD DESCRIPTION MERGE UTILITY.
/* NOTE - THIS SOURCE MEMBER SHOULD CONTAIN BLANKS IN COLUMNS 73-80,
/* AT LEAST IN ALL INLINE INPUT 'DD *' CONTROL STATEMENTS.
/******
//MERGHLP PROC LOADLIB=,
//          SORTLIB=,
//          UTILLIB=,
//          BGLIB=,
//          FGLIB=,
//          DEFLIB=,
//          OLDDEF=,
//          NEWDEF=,
//          SRCLIB=
//RETREV EXEC PGM=INFORMSB,REGION=2048K
//STEPLIB DD DISP=SHR,DSN=&LOADLIB
//SYSOUT DD SYSOUT=*
//INFOPT DD SYSOUT=*
//INFLIST DD SYSOUT=*
//INFREPT DD SYSOUT=*
//SORTLIB DD DISP=SHR,DSN=&SORTLIB
//SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA
//SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA
//SORTWK03 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA
//M4LIB DD DISP=SHR,DSN=&BGLIB
//M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2))
//INFORMLF DD DISP=SHR,DSN=&FGLIB
//INFORMCF DD DUMMY
//INFPRINT DD DISP=(NEW,PASS,DELETE),DSN=&&TEMP01,
//          UNIT=SYSDA,SPACE=(TRK,(10,10)),
//          DCB=(DSORG=PS,RECFM=FBA,LRECL=133,BLKSIZE=1330)
//INFIN DD DUMMY
//CONVRT EXEC PGM=MARKIV,REGION=2048K,COND=(0,NE)
//STEPLIB DD DISP=SHR,DSN=&LOADLIB
//SORTLIB DD DISP=SHR,DSN=&SORTLIB
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//M4SORT DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//M4REPO DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//M4LIST DD SYSOUT=*
//SYSOUT DD DUMMY
//M4OLD DD DISP=(OLD,DELETE,DELETE),DSN=&&TEMP01
//M4CORD1 DD DUMMY
//M4SUBF1 DD DISP=(NEW,PASS,DELETE),DSN=&&TEMP02,
//          UNIT=SYSDA,SPACE=(TRK,(10,10)),
//          DCB=(DSORG=PS,RECFM=FB,LRECL=80,BLKSIZE=3120)
//M4SUBF2 DD DUMMY
//M4SUBF3 DD DUMMY
//M4SUBF4 DD DUMMY
//M4SUBF5 DD DUMMY
//M4SUBF6 DD DUMMY
//M4SUBF7 DD DUMMY
//M4SUBF8 DD DUMMY
//M4SUBF9 DD DUMMY
//M4LIB DD DISP=SHR,DSN=&UTILLIB
//M4INPUT DD DISP=SHR,DSN=&SRCLIB(MERGHLP)
//MERGE EXEC PGM=IEBGENER,COND=(4,LT),REGION=2048K
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD DISP=SHR,DSN=&DEFLIB(&OLDDEF)
//          DD DISP=(OLD,DELETE,DELETE),DSN=&&TEMP02

```

Figure A-39 MERGHLP — JCL to Convert the Field Descriptions from Older Release Format (Page 1 of 2)

```

//SYSUT2 DD DISP=OLD,DSN=&DEFLIB(&NEWDEF)
//
//*****
//* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. *
//* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: *
//* *
//* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. *
//* SORTLIB - THE SYSTEM SORT LOAD LIBRARY. *
//* UTILLIB - THE INFORM UTILITY LIBRARY. *
//* BGLIB - THE INFORM BACKGROUND LIBRARY. *
//* FGLIB - THE INFORM FOREGROUND LIBRARY. *
//* DEFLIB - THE INFORM DEFINITION LIBRARY. *
//* OLDDEF - THE NAME OF THE EXISTING FILE DEFINITION. *
//* NEWDEF - THE NAME OF THE NEW FILE DEFINITION BEING CREATED. *
//* SRCLIB - THE INFORM SOURCE LIBRARY. *
//*****
//MERGE EXEC MERGHLP,
//          LOADLIB='INFORM.LOADLIB',
//          SORTLIB='SYS1.SORTLIB',
//          UTILLIB='INFORM.UTILIB',
//          BGLIB='INFORM.BGLIB',
//          FGLIB='INFORM.FGLIB',
//          DEFLIB='INFORM.DEFLIB',
//          OLDDEF='OLDNAME',
//          NEWDEF='NEWNAME',
//          SRCLIB='INFORM.SRCLIB'
//RETRV.INFIN DD *
LOGON USER PSWD
LIST ITEM OLDNAME TYPE FDHELP
QUIT
//CONVRT.M4CORD1 DD *
OLDNAME

```

Figure A-39 MERGHLP — JCL to Convert the Field Descriptions from Older Release Format (Page 2 of 2)

PMBASMLK

```

/* MEMBER PMBASMLK                                00010000
/******                                00020000
/* ASSEMBLE AND LINK EDIT THE SYSTEM PARAMETER MODULE "PARMBLK". * 00030002
/******                                00040000
//PMBASMLK PROC SRCLIB=,                                00050000
//      MACLIB=,                                00060000
//      LOADLIB=                                00070000
//ASSEM EXEC PGM=ASMA90,PARM='NODECK,OBJECT,LIST',REGION=2M 00080001
//SYSLIB DD DISP=SHR,DSN=&MACLIB                                00090000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))                    00100000
//SYSPRINT DD SYSOUT=*                                00110000
//SYSLIN DD DISP=(,PASS),DSN=&&PRMBLK,UNIT=SYSDA,SPACE=(TRK,(1,1)) 00120000
//SYSIN DD DISP=SHR,DSN=&SRCLIB(PARMBLK)                    00130000
//LKED EXEC PGM=HEWL,REGION=2M,COND=(4,LT),                00140001
//      PARM='RENT,XREF,LET,LIST,NCAL,SIZE=(200K,56K)'      00150000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(3,2))                    00160000
//PARMBLK DD DISP=(OLD,DELETE),DSN=&&PRMBLK                  00170000
//SYSMOD DD DISP=SHR,DSN=&LOADLIB                            00180000
//SYSPRINT DD SYSOUT=*                                00190000
//      PEND                                00200000
/******                                00210000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00220000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00230000
/* * 00240000
/* SRCLIB - THE INFORM SOURCE LIBRARY NAME. * 00250000
/* MACLIB - THE INFORM MACRO LIBRARY NAME. * 00260000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY NAME. * 00270000
/******                                00280000
//PMBASMLK EXEC PMBASMLK,                                00290000
//      MACLIB='INFORM.MACLIB',                                00300000
//      SRCLIB='INFORM.SRCLIB',                                00310000
//      LOADLIB='INFORM.LOADLIB'                                00320000
//LKED.SYSLIN DD *                                00330000
INCLUDE PARMBLK                                00340000
NAME INFORMPB(R)                                00350000

```

Figure A-40 PMBASMLK — JCL to Assemble and Link the VISION:Inform Parameter Module PARMBLK

PRXASMLK

```

/* MEMBER PRXASMLK                                00010000
/*****                                00020000
/* PROCEDURE TO ASSEMBLE/LINK A USER-WRITTEN PROFILE EXIT ROUTINE. * 00030000
/*****                                00040000
//PRXASMLK PROC SRCLIB=,                          00050000
//      MACLIB=,                                00060000
//      LOADLIB=                                00070000
//ASSEM EXEC PGM=ASMA90, PARM='NODECK,OBJECT,LIST',REGION=2M      00080002
//SYSLIB DD DISP=SHR,DSN=&MACLIB                    00090000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))            00100000
//SYSPRINT DD SYSOUT=*                              00110000
//SYSLIN DD DISP=(,PASS),DSN=&&PREXIT,UNIT=SYSDA,SPACE=(TRK,(1,1)) 00120000
//SYSIN DD DISP=SHR,DSN=&SRCLIB(PROEXITR)            00130000
//LKED EXEC PGM=HEWL,REGION=2M,COND=(0,NE),          00140002
//      PARM='RENT,XREF,LET,LIST,NCAL,SIZE=(200K,56K)' 00150000
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(3,2))            00160000
//PROEXITR DD DISP=(OLD,DELETE),DSN=&&PREXIT          00170000
//SYSLMOD DD DISP=SHR,DSN=&LOADLIB                  00180000
//SYSPRINT DD SYSOUT=*                              00190000
//      PEND                                         00200000
/*****                                00210000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00220000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00230000
/* * 00240000
/* SRCLIB - THE INFORM SOURCE LIBRARY NAME. * 00250000
/* MACLIB - THE INFORM MACRO LIBRARY NAME. * 00260000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY NAME. * 00270000
/*****                                00280000
//PRXASMLK EXEC PRXASMLK,                          00290000
//      SRCLIB='INFORM.SRCLIB',                    00300000
//      MACLIB='INFORM.MACLIB',                    00310001
//      LOADLIB='INFORM.LOADLIB'                   00320000
//LKED.SYSLIN DD *                                  00330000
INCLUDE PROEXITR                                    00340000
NAME INFROMLX(R)                                     00350000

```

Figure A-41 PRXASMLK — JCL to Assemble and Link a User Written Profile Exit Routine

PURGUTIL

```

/* MEMBER PURGUTIL                                00010000
/******                                00020000
/* THIS PROCEDURE RUNS THE COMMUNICATIONS FILE PURGE UTILITY. A DATE * 00030000
/* PARAMETER IS PASSED TO THE UTILITY. ALL 'READY' STATUS REPORTS * 00040000
/* WITH A COMPLETION DATE EQUAL TO OR OLDER THAN THE SPECIFIED DATE * 00050000
/* WILL BE PURGED FROM THE COMMUNICATIONS FILE. * 00060000
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00070002
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00080002
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00090002
/* CONCATENATED TO THE STEP2.STEPLIB DD STATEMENT. * 00100002
/* *** ALSO *** CICS MUST BE DOWN TO RUN THIS UTILITY. * 00110002
/******                                00120000
//PRGUTIL PROC RGN=,                                00130000
//          LOADLIB=,                                00140000
//          SORTLIB=,                                00150000
//          SRCLIB=,                                00160000
//          DATE=,                                00170000
//          UTLIB=,                                00180000
//          FGLIB=,                                00190000
//          INFCOM=                                00200001
//STEP1 EXEC PGM=INFORMSB,REGION=&RGN                00210001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                  00220000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                   00230001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                  00240001
//INFPRINT DD DISP=(NEW,PASS),DSN=&&PRG,UNIT=SYSDA,SPACE=(TRK,(10,10)) 00250001
//INFLIST DD DUMMY                                  00260001
//INFREPT DD DUMMY                                  00270001
//INFIN DD DISP=SHR,DSN=&SRCLIB(PURGLIST)           00280001
//STEP2 EXEC PGM=MARKIV,REGION=&RGN,PARM='&DATE'    00290000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                  00300000
//M4LIST DD SYSOUT=*                                00310000
//M4REPO DD DISP=(NEW,PASS),DCB=(BLKSIZE=6400,BUFNO=3), 00320000
//          UNIT=SYSDA,SPACE=(TRK,(5,2),RLSE)       00330000
//M4SORT DD DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1) 00340000
//SYSOUT DD DUMMY                                  00350000
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                  00360000
//SORTWK01 DD SPACE=(CYL,1,,CONTIG),UNIT=SYSDA      00370000
//SORTWK02 DD SPACE=(CYL,1,,CONTIG),UNIT=SYSDA      00380000
//SORTWK03 DD SPACE=(CYL,1,,CONTIG),UNIT=SYSDA      00390000
//M4LIB DD DISP=SHR,DSN=&UTLIB                      00400000
//M4OLD DD DSN=&&PRG,DISP=(OLD,PASS)                 00410000
//M4SUBF1 DD DSN=&&STMTS,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(10,5)) 00420000
//M4INPUT DD DISP=SHR,DSN=&SRCLIB(PURGPROG)         00430000
//STEP3 EXEC PGM=INFORMSB,REGION=&RGN,COND=(0,LT,STEP2) 00440003
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                  00450000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                   00460001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                  00470001
//INFPRINT DD SYSOUT=*                              00480001
//INFLIST DD DUMMY                                  00490001
//INFREPT DD DUMMY                                  00500001
//INFIN DD DISP=(OLD,PASS),DSN=&&STMTS              00510001
//          PEND                                    00520000
/******                                00530000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00540000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00550000
/* * 00560000
/* RGN - THE REGION SIZE (DEFAULT 1800K). * 00570000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00580001
/* SORTLIB - THE LOAD LIBRARY CONTAINING THE SYSTEM SORT PROGRAM. * 00590001
/* THE DEFAULT IS SYS1.SORTLIB. * 00600001
/* SRCLIB - THE INFORM INSTALLATION SOURCE LIBRARY. * 00610001
/* DATE - THE DATE PARAMETER FOR THE PURGE UTILITY. ALL 'READY' * 00620000
/* STATUS REPORTS WITH A COMPLETION DATE EQUAL TO OR * 00630000

```

Figure A-42 PURGUTIL — JCL to Run the Communication File Purge Utility (Page 1 of 2)

```
//*          OLDER THAN THIS DATE WILL BE PURGED.          * 00640000
//*          SPECIFY THE DATE IN MM/DD/YYYY FORMAT.        * 00650002
//*  UTLIB   - THE INFORM INSTALLATION UTILITY LIBRARY.    * 00660001
//*  FGLIB   - THE INFORM FOREGROUND LIBRARY.              * 00670001
//*  INFCOM  - THE INFORM COMMUNICATION FILE.              * 00680001
//***** 00690000
//INF      EXEC PRGUTIL,RGN=1800K,                          00700001
//          LOADLIB='INFORM.LOADLIB',                      00710001
//          SORTLIB='SYS1.SORTLIB',                        00720000
//          SRCLIB='INFORM.SRCLIB',                        00730001
//          DATE='MM/DD/YYYY',                             00740002
//          UTLIB='INFORM.UTLIB',                          00750001
//          FGLIB='INFORM.FGLIB',                          00760001
//          INFCOM='INFORM.INFCOM'                         00770001
```

Figure A-42 PURGUTIL — JCL to Run the Communication File Purge Utility (Page 2 of 2)

RESULTQS

```

/* MEMBER RESULTQS                                00010000
/******                                00020000
/* EXECUTE THE RESULTS QUICK START UTILITY TO CONVERT VISION:RESULTS * 00030000
/* OR VISION:EIGHTY DEFINITIONS INTO VISION:INFORM FORMAT.          * 00040000
/*                                * 00050000
/* ***** NOTE *****                                * 00060000
/* THE SYSCOPY DD STATEMENT IS USED FOR MVS COPYBOOK LIBRARIES.    * 00070000
/* THE PANDD1 DD STATEMENT IS USED FOR PANVALET COPYBOOK LIBRARIES.* 00080000
/* THE MASTER DD STATEMENT IS USED FOR LIBRARIAN COPYBOOK LIBRARIES.* 00090000
/*                                * 00100000
/* THIS UTILITY MAY ALSO BE INVOKED INTERACTIVELY UNDER TSO/ISPF    * 00110000
/* USING THE DEFINITION PROCESSOR COMPONENT IMPORT FUNCTION.        * 00120000
/******                                00130000
//RESLTQS PROC RGN=2M,                                00140000
//                                LOADLIB=,            00150000
//                                DEFLIB=,             00160000
//                                MEMBER=,             00170000
//                                RSLTLIB=,            00180000
//                                RSLTDEF=,            00190000
//CONVRT EXEC PGM=RESULTQS,REGION=&RGN                    00200000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                      00210000
//SYSPRINT DD SYSOUT=*                                00220000
//*SYSCOPY DD DISP=SHR,DSN=USER.RESULTS.COPYLIB          00230000
//*PANDD1 DD DISP=SHR,DSN=USER.PANVALET.LIBRARY          00240000
//*MASTER DD DISP=SHR,DSN=USER.LIBR.MASTER              00250000
//SYS004 DD DISP=OLD,DSN=&DEFLIB(&MEMBER)                00260000
//SYSIN DD DISP=SHR,DSN=&RSLTLIB(&RSLTDEF)              00270000
//                                PEND                  00280000
//*****                                00290000
/* FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE YOU * 00300000
/* RUN THIS PROCEDURE, SPECIFY:                                * 00310000
/*                                * 00320000
/*                                * 00330000
/* RGN - THE REGION SIZE. DEFAULT IS 2M.                    * 00340000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.          * 00350000
/* DEFLIB - THE LIBRARY (PDS) TO CONTAIN THE INFORM DEFINITIONS.* 00360000
/* MEMBER - THE PDS MEMBER NAME FOR THE CONVERTED VISION:INFORM * 00370000
/* FILE DEFINITION IN THE DEFINITION LIBRARY.                * 00380000
/* RSLTLIB - THE PDS CONTAINING THE VISION:RESULTS FILE      * 00390000
/* DEFINITION SOURCE STATEMENTS.                              * 00400000
/* RSLTDEF - THE PDS MEMBER NAME OF THE INPUT VISION:RESULTS * 00410000
/* FILE DEFINITION TO BE CONVERTED.                          * 00420000
/*                                * 00430000
/* *** N O T E ***                                * 00440000
/*                                * 00450000
/* THIS PROCEDURE ASSUMES INPUT FROM A PDS MEMBER. OPTIONALLY, IT * 00460000
/* MAY ALSO COME FROM A RESULTS COPY (MVS PDS), COPYP (PANVALET), * 00470000
/* OR COPYL (LIBRARIAN) STATEMENT. IF SO, YOU MUST UN-COMMENT THE * 00480000
/* APPROPRIATE SYSCOPY (MVS PDS), PANDD1 (PANVALET), OR MASTER    * 00490000
/* (LIBRARIAN) DD STATEMENT IN THE PROCEDURE, SPECIFYING THE     * 00500000
/* PROPER DATA SET NAME FOR THE LIBRARY USED. PLEASE REFER TO THE * 00510000
/* MANUAL FOR DETAILS IN SETTING UP COPY SUPPORT.              * 00520000
/******                                00530000
//STEP01 EXEC RESLTQS,RGN=2M,                            00540000
//                                LOADLIB='INFORM.LOADLIB',    00550000
//                                DEFLIB='INFORM.DEFLIB',      00560000
//                                MEMBER=FILENAME,             00570000
//                                RSLTLIB='RESULTS.FILEDEFS',   00580000
//                                RSLTDEF=FILENAME

```

Figure A-43 RESULTQS — JCL to Run the VISION:Results Quick Start Utility to Convert VISION:Results File Definitions into VISION:Inform Format

TEXECDLI

```

/* MEMBER TEXECDLI                                00010001
/******                                           00020001
/* PROCEDURE TO RUN THE BACKGROUND PROCESSOR WITH ACCESS TO DLI * 00030001
/* DATABASES AND DB2 TABLES USING THE TSO ATTACH FACILITY. * 00040001
/* * 00050001
/*          REFER TO TSO COMMAND PROCESSOR INPUT (INFBG.SYSTSIN). * 00060001
/* * 00070001
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00080001
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00090001
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00100001
/* CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00110001
/******                                           00120001
//EXECCLI PROC RGN=,                                00130001
//          RESLIB=,                                00140001
//          PSBLIB=,                                00150001
//          DBDLIB=,                                00160001
//          LOADLIB=,                               00170001
//          SORTLIB=,                               00180001
//          RS1LOAD=,                               00190001
//          DB2LOAD=,                               00200001
//          FGLIB=,                                 00210001
//          INFCOM=,                                00220001
//          INFLOG=,                                00230001
//          BGLIB=,                                 00240001
//          REPORTS=,                               00250001
//          RUNCNTL=,                               00260001
//          HCSCFG=,                                00270003
//          HTMLTPL=,                               00280003
//          M4REPO=,                                00290001
//          M4SORT=,                                00300001
//          M4REPI=,                                00310001
//VER EXEC PGM=IDCAMS,REGION=512K                    00320001
//SYSPRINT DD SYSOUT=*                               00330001
//FGLIB DD DISP=SHR,DSN=&FGLIB                      00340001
//BGLIB DD DISP=SHR,DSN=&BGLIB                      00350001
//INFCOM DD DISP=SHR,DSN=&INFCOM                    00360001
//INFBG EXEC PGM=IKJEFT01,REGION=&RGN               00370001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                  00380001
//          DD DISP=SHR,DSN=&RS1LOAD                 00390001
//          DD DISP=SHR,DSN=&DB2LOAD                 00400001
//          DD DISP=SHR,DSN=&RESLIB                   00410001
//IMS DD DISP=SHR,DSN=&PSBLIB                       00420001
//          DD DISP=SHR,DSN=&DBDLIB                   00430001
//DFSRESLB DD DISP=SHR,DSN=&RESLIB                   00440001
//IEFRDER DD DUMMY                                  00450001
//M4LIB DD DISP=SHR,DSN=&BGLIB                      00460001
//M4REPO DD DISP=SHR,DSN=&M4REPO                    00470001
//SORTIN DD DISP=SHR,DSN=&M4REPO                    00480001
//M4SORT DD DISP=SHR,DSN=&M4SORT                    00490001
//SYSIN DD DISP=SHR,DSN=&M4SORT                    00500001
//M4REPI DD DISP=SHR,DSN=&M4REPI                    00510001
//SORTOUT DD DISP=SHR,DSN=&M4REPI                   00520001
//SORTMSG DD SYSOUT=*                               00530001
//INFORMLF DD DISP=SHR,DSN=&FGLIB                   00540001
//INFORMCF DD DISP=SHR,DSN=&INFCOM                  00550001
//INFLOG DD DISP=SHR,DSN=&INFLOG                    00560001
//INFREPT DD DISP=OLD,DSN=&REPORTS                  00570001
//SYSOUT DD SYSOUT=*                               00580001
//SYSTSPRT DD SYSOUT=*                             00590001
//SORTLIB DD DISP=SHR,DSN=&SORTLIB                  00600001
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00610001
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00620001
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)     00630001

```

Figure A-44 TEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 1 of 3)

```

//HCSCFG DD DISP=SHR,DSN=&HCSCFG 00640003
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL 00650003
//INFIN DD DISP=SHR,DSN=&RUNCNTL 00660001
// PEND 00670001
//***** 00680001
//* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE * 00690001
//* YOU RUN THIS PROCEDURE, SPECIFY: * 00700001
//* * 00710001
//* RGN - THE REGION SIZE. THE DEFAULT IS 2200K. * 00720001
//* RESLIB - IMS RESLIB. THE DEFAULT IS IMSVS.RESLIB. * 00730001
//* PSBLIB - THE PSB LIBRARY. * 00740001
//* DBDLIB - THE DBD LIBRARY. * 00750001
//* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00760001
//* SORTLIB - THE SYSTEM SORT LOAD LIBRARY. (DEFAULT SYS1.SORTLIB) * 00770001
//* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE. * 00780001
//* DB2LOAD - THE DB2 LOAD LIBRARY. * 00790001
//* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00800001
//* INFCOM - THE INFORM COMMUNICATION FILE. * 00810001
//* INFLOG - THE INFORM HARDCOPY LOG FILE. * 00820001
//* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00830001
//* REPORTS - THE INFORM PRINTED REPORTS DATASET. * 00840001
//* RUNCNTL - THE DATASET CONTAINING THE BACKGROUND PROCESSOR CONTROL * 00850001
//* STATEMENTS. **** NOTE - MEMBER 'OSCNTL' IN LIBRARY * 00860001
//* - 'INFORM.SRCLIB' HAS * 00870001
//* - SAMPLE CONTROL STATEMENTS. * 00880001
//* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00890003
//* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00900003
//* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00910004
//* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00920003
//* HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00930003
//* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00940003
//* THE INSTALLATION SOURCE LIBRARY. * 00950003
//* M4REPO - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE. * 00960001
//* M4SORT - BACKGROUND PROCESSOR SORT CONTROL OUTPUT, * 00970001
//* - AND SORT CONTROL INPUT. * 00980001
//* M4REPI - BACKGROUND PROCESSOR INPUT, SORT OUTPUT FILE. * 00990001
//***** 01000001
//EXECCLI EXEC EXECCLI, 01010001
// RGN=2200K, 01020001
// RESLIB='IMSVS.RESLIB', 01030001
// PSBLIB='USER.PSBLIB', 01040001
// DBDLIB='USER.DBDLIB', 01050001
// LOADLIB='INFORM.LOADLIB', 01060001
// SORTLIB='SYS1.SORTLIB', 01070001
// RS1LOAD='INFORM.RS1LIB', 01080001
// DB2LOAD='DB2.LOADLIB', 01090001
// FGLIB='INFORM.FGLIB', 01100001
// INFCOM='INFORM.INFCOM', 01110001
// INFLOG='INFORM.INFLOG', 01120001
// BGLIB='INFORM.BGLIB', 01130001
// REPORTS='INFORM.REPORTS', 01140001
// RUNCNTL='INFORM.SRCLIB(OSCNTL)', 01150001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', 01160003
// HTMLTPL='INFORM.SRCLIB', 01170003
// M4REPO='INFORM.M4REPO', 01180001
// M4SORT='INFORM.M4SORT', 01190001
// M4REPI='INFORM.M4REPI' 01200001
//VER.SYSIN DD * 01210001
// VERIFY FILE(FGLIB) 01220001
// VERIFY FILE(BGLIB) 01230001
// VERIFY FILE(INFCOM) 01240001
//INFBG.DFSVSAMP DD * 01250001
8192,6 01260001
//***** 01270001
//* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 01280001
//* THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT: * 01290001
//* * 01300001
//* //INFBG.USERFILE DD ..... * 01310001
//* * 01320001

```

Figure A-44 TEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 2 of 3)

```

/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR      * 01330001
/* EACH SUBFILE WITH THE FOLLOWING FORMAT:                               * 01340001
/*                                                                           * 01350001
/* //INFBG.USERSUBF DD .....                                           * 01360001
/*                                                                           * 01370001
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD           * 01380001
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:                       * 01390001
/*                                                                           * 01400001
/* //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS                     * 01410001
/* *****                                                                * 01420002
/* SET UP TSO COMMAND PROCESSOR INPUT HERE:                             * 01430001
/* *****                                                                * 01440001
//INFBG.SYSTSIN DD *                                                    * 01450001
  DSN SYSTEM (DB2 SYSTEM NAME)                                         * 01460001
  RUN CP -                                                             * 01470001
  PLAN (PLANNAME)                                                       * 01480001
  CALL 'IMSVS.RESLIB (DFSRR00)' ' DLI, INFORMDE, PSBNAME'             * 01490001
  END                                                                    * 01500001

```

Figure A-44 TEXECDLI — JCL to Run the Background Processor with Access to DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 3 of 3)

TEXECOS

```

/* MEMBER TEXECOS 00010001
/****** 00020001
/* PROCEDURE TO RUN THE BACKGROUND PROCESSOR WITH ACCESS TO NON-DLI * 00030001
/* DATABASES AND DB2 TABLES USING THE TSO ATTACH FACILITY. * 00040001
/* * 00050001
/* REFER TO TSO COMMAND PROCESSOR INPUT (INFBG.SYSTSIN). * 00060001
/* * 00070001
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00080001
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO * 00090001
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE * 00100001
/* CONCATENATED TO THE INFBG.STEPLIB DD STATEMENTS. * 00110001
/****** 00120001
//EXECOS PROC RGN=, 00130001
// LOADLIB=, 00140001
// SORTLIB=, 00150001
// RS1LOAD=, 00160001
// DB2LOAD=, 00170001
// FGLIB=, 00180001
// INFCOM=, 00190001
// INFLOG=, 00200001
// BGLIB=, 00210001
// REPORTS=, 00220001
// RUNCNTL=, 00230001
// HCSCFG=, 00240003
// HTMLTPL=, 00250003
// M4REPO=, 00260001
// M4SORT=, 00270001
// M4REPI=, 00280001
//VER EXEC PGM=IDCAMS,REGION=512K 00290001
//SYSPRINT DD SYSOUT=* 00300001
//FGLIB DD DISP=SHR,DSN=&FGLIB 00310001
//BGLIB DD DISP=SHR,DSN=&BGLIB 00320001
//INFCOM DD DISP=SHR,DSN=&INFCOM 00330001
//INFBG EXEC PGM=IKJEFT01,REGION=&RGN 00340001
//STEPLIB DD DISP=SHR,DSN=&LOADLIB 00350001
// DD DISP=SHR,DSN=&RS1LOAD 00360001
// DD DISP=SHR,DSN=&DB2LOAD 00370001
//M4LIB DD DISP=SHR,DSN=&BGLIB 00380001
//M4REPO DD DISP=SHR,DSN=&M4REPO 00390001
//SORTIN DD DISP=SHR,DSN=&M4REPO 00400001
//M4SORT DD DISP=SHR,DSN=&M4SORT 00410001
//SYSIN DD DISP=SHR,DSN=&M4SORT 00420001
//M4REPI DD DISP=SHR,DSN=&M4REPI 00430001
//SORTOUT DD DISP=SHR,DSN=&M4REPI 00440001
//SORTMSG DD SYSOUT=* 00450001
//INFORMLF DD DISP=SHR,DSN=&FGLIB 00460001
//INFORMCF DD DISP=SHR,DSN=&INFCOM 00470001
//INFLOG DD DISP=SHR,DSN=&INFLOG 00480001
//INFREPT DD DISP=OLD,DSN=&REPORTS 00490001
//SYSOUT DD SYSOUT=* 00500001
//SYSTSPRT DD SYSOUT=* 00510001
//SORTLIB DD DISP=SHR,DSN=&SORTLIB 00520001
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG) 00530001
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG) 00540001
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,5,,CONTIG) 00550001
//HCSCFG DD DISP=SHR,DSN=&HCSCFG 00560003
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL 00570003
//INFIN DD DISP=SHR,DSN=&RUNCNTL 00580001
// PEND 00590001
//***** 00600001
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. BEFORE * 00610001
/* YOU RUN THIS PROCEDURE, SPECIFY: * 00620001

```

Figure A-45 TEXECOS — JCL to Run the Background Processor with Access to Non-DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 1 of 3)

```

/*
/* RGN - THE REGION SIZE. THE DEFAULT IS 1800K.
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.
/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB).
/* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE.
/* DB2LOAD - THE DB2 LOAD LIBRARY.
/* FGLIB - THE INFORM FOREGROUND LIBRARY.
/* INFCOM - THE INFORM COMMUNICATION FILE.
/* INFLOG - THE INFORM HARDCOPY LOG FILE.
/* BGLIB - THE INFORM BACKGROUND LIBRARY.
/* REPORTS - THE INFORM PRINTED REPORTS DATASET.
/* RUNCNTL - THE DATASET CONTAINING THE BACKGROUND PROCESSOR INPUT
/* PARAMETERS. **** NOTE - SAMPLE CONTROL INPUT EXISTS IN
/* - MEMBER OSCNTL OF DATASET
/* - INFORM.SRCLIB.
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS.
/* HTMTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS
/* THE INSTALLATION SOURCE LIBRARY.
/* M4REPO - BACKGROUND PROCESSOR WORK FILE, SORT INPUT FILE.
/* M4SORT - BACKGROUND PROCESSOR SORT CONTROL OUTPUT,
/* - AND SORT CONTROL INPUT.
/* M4REPI - BACKGROUND PROCESSOR WORK FILE, SORT OUTPUT FILE.
/* *****
//EXECOS EXEC EXECOS,RGN=1800K,
// LOADLIB='INFORM.LOADLIB',
// SORTLIB='SYS1.SORTLIB',
// RS1LOAD='INFORM.RS1LIB',
// DB2LOAD='DB2.LOADLIB',
// FGLIB='INFORM.FGLIB',
// INFCOM='INFORM.INFCOM',
// INFLOG='INFORM.INFLOG',
// BGLIB='INFORM.BGLIB',
// REPORTS='INFORM.REPORTS',
// RUNCNTL='INFORM.SRCLIB(OSCNTL)',
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)',
// HTMTPL='INFORM.SRCLIB',
// M4REPO='INFORM.M4REPO',
// M4SORT='INFORM.M4SORT',
// M4REPI='INFORM.M4REPI'
//VER.SYSIN DD *
// VERIFY FILE(FGLIB)
// VERIFY FILE(BGLIB)
// VERIFY FILE(INFCOM)
// *****
/* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO
/* THIS BACKGROUND PROCESSOR HERE. USE THE FOLLOWING FORMAT:
/*
/* //INFBG.USERFILE DD .....
/*
/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR
/* EACH SUBFILE WITH THE FOLLOWING FORMAT:
/*
/* //INFBG.USERSUBF DD .....
/*
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT:
/*
/* //INFBG.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS

```

Figure A-45 TEXECOS — JCL to Run the Background Processor with Access to Non-DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 2 of 3)

```
//***** 01250001
//* SET UP TSO COMMAND PROCESSOR INPUT HERE: * 01260001
//***** 01270001
//INFBG.SYSTSIN DD * 01280001
DSN SYSTEM (DB2 SYSTEM NAME) 01290001
RUN PROG(INFORMBB) - 01300001
PLAN (PLANNAME) - 01310001
LIB ('INFORM.LOADLIB') 01320001
END 01330001
```

Figure A-45 TEXECOS — JCL to Run the Background Processor with Access to Non-DL/I Databases and DB2 Tables with the TSO Attach Facility
(Page 3 of 3)

TINFOSB

```

/* MEMBER TINFOSB                                00010000
/******                                00020000
/* RUN THE BATCH SIMULATOR WITH ACCESS TO NON-DLI DATABASES AND DB2 * 00030003
/* TABLES USING THE TSO ATTACH FACILITY.                                * 00040003
/*                                * 00050000
/*                                * 00060002
/*                                * 00070000
/*                                * 00080002
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00090002
/*                                * 00100002
/*                                * 00110002
/*                                * 00120000
/******                                00130000
//INFOSB PROC RGN=,                                00140000
//                                00150000
//                                00160000
//                                00170000
//                                00180001
//                                00190001
//                                00200000
//                                00210004
//                                00220004
//                                00230001
//VER EXEC PGM=IDCAMS,REGION=512K                00240000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                00250000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                00260000
//BGLIB DD DISP=SHR,DSN=&BGLIB                   00270000
//SYSPRINT DD SYSOUT=*                          00280000
//INF EXEC PGM=IKJEFT01,REGION=&RGN              00290000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB               00300000
//                                00310000
//                                00320000
//                                00330000
//M4LIB DD DISP=SHR,DSN=&BGLIB                   00340000
//M4REPO DD UNIT=SYSDA,SPACE=(TRK,(2,2))         00350000
//SYSOUT DD SYSOUT=*                            00360000
//SORTLIB DD DISP=SHR,DSN=&SORTLIB               00370000
//SORTWK01 DD SPACE=(CYL,5,,CONTIG),UNIT=SYSDA   00380000
//SORTWK02 DD SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//SORTWK03 DD SPACE=(CYL,5,,CONTIG),             00390000
//                                00400000
//INFORMLF DD DISP=SHR,DSN=&FGLIB                00410000
//INFORMCF DD DISP=SHR,DSN=&INFCOM                00420000
//INFPRINT DD SYSOUT=*                          00430000
//INFLIST DD SYSOUT=*                          00440000
//SYSTSPRT DD SYSOUT=*                          00450000
//HCSCFG DD DISP=SHR,DSN=&HCSCFG                 00460004
//M4HTBASE DD DISP=SHR,DSN=&HTMLTPL              00470004
//INFREPT DD DISP=OLD,DSN=&REPORTS               00480000
//                                00490000
//*****                                00500000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00510000
/* BEFORE YOU RUN THIS PROCEDURE,SPECIFY: * 00520000
/*                                * 00530000
/* RGN - THE REGION SIZE (DEFAULT 1800K). * 00540001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00550001
/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00560001
/* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULE. * 00570001
/* DB2LOAD - THE DB2 LOAD LIBRARY. * 00580001
/* REPORTS - THE DATASET FOR PRINTED REPORTS. * 00590001
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00600001
/* INFCOM - THE INFORM COMMUNICATION FILE. * 00610001
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00620004
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER* 00630004

```

Figure A-46 TINFOSB — JCL to Run the Batch Simulator with Access to Non-DLI Databases and DB2 Tables Using the TSO Attach Facility (Page 1 of 2)

```

/*          NAME OR A SEQUENTIAL FILE NAME.  THIS FILE IS ALSO      * 00640004
/*          USED FOR THE HOST CONNECT SERVER WITH INTRACCESS.       * 00650004
/*  HTMPTPL - THE DATA SET NAME OF THE PDS CONTAINING THE HTML     * 00660004
/*          TEMPLATES FOR HTML OUTPUT FORMAT.  THE DEFAULT IS      * 00670004
/*          THE INSTALLATION SOURCE LIBRARY.                        * 00680004
/*  BGLIB   - THE INFORM BACKGROUND LIBRARY.                        * 00690001
/*          *****                                              * 00700000
//INF      EXEC INFOSB,RGN=1800K,                                   * 00710000
//          LOADLIB='INFORM.LOADLIB',                             * 00720001
//          SORTLIB='SYS1.SORTLIB',                                 * 00730000
//          RS1LOAD='INFORM.RS1LIB',                               * 00740001
//          DB2LOAD='DB2.LOADLIB',                                 * 00750000
//          REPORTS='INFORM.REPORTS',                             * 00760001
//          INFCOM='INFORM.INFCOM',                               * 00770001
//          FGLIB='INFORM.FGLIB',                                 * 00780001
//          HCSCFG='INFORM.SRCLIB(HCSCNFIG)',                     * 00790004
//          HTMLTPL='INFORM.SRCLIB',                               * 00800004
//          BGLIB='INFORM.BGLIB'                                  * 00810001
//VER.SYSIN DD *                                                  * 00820000
//          VERIFY FILE(INFORMLF)                                * 00830000
//          VERIFY FILE(INFORMCF)                                * 00840000
//          VERIFY FILE(BGLIB)                                   * 00850000
//          *****                                              * 00860000
/*          INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 00870000
/*          THE BATCH SIMULATOR HERE.  USE THE FOLLOWING FORMAT:  * 00880000
/*          *****                                              * 00890000
/*          //INF.USERFILE DD .....                               * 00900000
/*          *****                                              * 00910000
/*          IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 00920000
/*          EACH SUBFILE WITH THE FOLLOWING FORMAT:                * 00930000
/*          *****                                              * 00940000
/*          //INF.USERSUBF DD .....                               * 00950000
/*          *****                                              * 00960000
/*          IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 00970000
/*          STATEMENT FOR M4SUBF0.  USE THE FOLLOWING FORMAT:      * 00980000
/*          *****                                              * 00990000
/*          //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS      * 01000000
//          *****                                              * 01010000
/*          SET UP TSO COMMAND PROCESSOR STATEMENTS HERE:         * 01020000
//          *****                                              * 01030000
//INF.SYSTSIN DD *                                               * 01040000
//          DSN SYSTEM (SYSTEM NAME)                             * 01050000
//          RUN PROG (INFORMSB) -                                * 01060000
//          PLAN (PLANNAME) -                                    * 01070000
//          LIB ('INFORM.LOADLIB')                               * 01080001
//          END                                                  * 01090000
//          *****                                              * 01100000
/*          PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE: * 01110000
//          *****                                              * 01120000
//INF.INFIN DD *                                                 * 01130001
//          PLACE QUERY STATEMENTS HERE                          * 01140000

```

Figure A-46 TINFOSB — JCL to Run the Batch Simulator with Access to Non-DLI Databases and DB2 Tables Using the TSO Attach Facility (Page 2 of 2)

TINFOSBI

```

/* MEMBER TINFOSBI                                00010000
/******                                00020000
/* RUN THE BATCH SIMULATOR WITH ACCESS TO DLI DATABASES AND DB2 * 00030002
/* TABLES USING THE TSO ATTACH FACILITY.                * 00040002
/*                                                        * 00050000
/*          REFER TO THE TSO COMMAND PROCESSOR INPUT (INF.SYSTSIN). * 00060002
/*                                                        * 00070000
/* *** NOTE *** IF THE LANGUAGE ENVIRONMENT LOAD LIBRARY IS NOT IN * 00080002
/* THE STANDARD LOAD LIBRARY LIST MADE AVAILABLE TO        * 00090002
/* ALL BATCH PROGRAMS ON YOUR HOST SYSTEM, IT MUST BE     * 00100002
/* CONCATENATED TO THE INF.STEPLIB DD STATEMENTS.         * 00110002
/******                                00120000
//INFOSB  PROC  RGN=,                                00130000
//          LOADLIB=,                                00140000
//          SORTLIB=,                                00150000
//          RS1LOAD=,                                00160000
//          DB2LOAD=,                                00170000
//          RESLIB=,                                  00180000
//          PSBLIB=,                                  00190000
//          DBDLIB=,                                  00200000
//          REPORTS=,                                 00210001
//          INFCOM=,                                  00220000
//          FGLIB=,                                   00230001
//          HCSCFG=,                                  00240003
//          HTMLTPL=,                                 00250003
//          BGLIB=,                                   00260001
//VER      EXEC  PGM=IDCAMS,REGION=512K                00270000
//INFORMLF  DD  DISP=SHR,DSN=&FGLIB                    00280000
//INFORMCF  DD  DISP=SHR,DSN=&INFCOM                    00290000
//BGLIB     DD  DISP=SHR,DSN=&BGLIB                    00300000
//SYSPRINT  DD  SYSOUT=*                                00310000
//INF      EXEC  PGM=IKJEFT01,REGION=&RGN              00320000
//STEPLIB   DD  DISP=SHR,DSN=&LOADLIB                  00330000
//          DD  DISP=SHR,DSN=&RESLIB                  00340000
//          DD  DISP=SHR,DSN=&RS1LOAD                  00350000
//          DD  DISP=SHR,DSN=&DB2LOAD                  00360000
//IMS       DD  DISP=SHR,DSN=&PSBLIB                  00370001
//          DD  DISP=SHR,DSN=&DBDLIB                  00380001
//IEFRDER   DD  DUMMY                                  00390000
//DFSRESLB  DD  DISP=SHR,DSN=&RESLIB                  00400001
//M4LIB     DD  DISP=SHR,DSN=&BGLIB                    00410000
//M4REPO    DD  UNIT=SYSDA,SPACE=(TRK,(2,2))           00420000
//SYSOUT    DD  SYSOUT=*                                00430000
//SORTLIB   DD  DISP=SHR,DSN=&SORTLIB                  00440000
//SORTWK01  DD  SPACE=(CYL,5,,CONTIG),UNIT=SYSDA       00450000
//SORTWK02  DD  SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//SORTWK03  DD  SPACE=(CYL,5,,CONTIG),UNIT=(SYSDA,SEP=
//          UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02))       00480000
//INFORMLF  DD  DISP=SHR,DSN=&FGLIB                    00490000
//INFORMCF  DD  DISP=SHR,DSN=&INFCOM                    00500000
//INFPRINT  DD  SYSOUT=*                                00510000
//INFLIST   DD  SYSOUT=*                                00520000
//SYSTSPRT  DD  SYSOUT=*                                00530000
//HCSCFG    DD  DISP=SHR,DSN=&HCSCFG                  00540003
//M4HTBASE  DD  DISP=SHR,DSN=&HTMLTPL                  00550003
//INFREPT   DD  DISP=OLD,DSN=&REPORTS                  00560000
//          PEND                                         00570000
/******                                00580000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00590000
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY:                * 00600000
/*                                                        * 00610000
/* RGN      - THE REGION SIZE. (DEFAULT 2200K).          * 00620001
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY.       * 00630001

```

Figure A-47 TINFOSBI — JCL to Run the Batch Simulator with Access to DLI/
Databases and DB2 Tables with the TSO Attach Facility (Page 1 of 2)

```

/* SORTLIB - THE SYSTEM SORT LOAD LIBRARY (DEFAULT SYS1.SORTLIB). * 00640001
/* RS1LOAD - LOAD LIBRARY CONTAINING THE DB2 INTERFACE MODULES. * 00650001
/* DB2LOAD - THE DB2 LOAD LIBRARY. * 00660001
/* RESLIB - THE IMS RESLIB (DEFAULT IMSVS.RESLIB). * 00670001
/* PSBLIB - THE PSB LIBRARY. * 00680001
/* DBDLIB - THE DBD LIBRARY. * 00690001
/* REPORTS - THE DATASET FOR PRINTED REPORTS. * 00700001
/* INFCOM - THE INFORM COMMUNICATION FILE. * 00710001
/* FGLIB - THE INFORM FOREGROUND LIBRARY. * 00720001
/* HCSCFG - THE CONFIGURATION FILE FOR DYNAMIC ALLOCATION OF * 00730003
/* ALTERNATE FORMAT OUTPUT FILES. SPECIFY A PDS AND MEMBER * 00740003
/* NAME OR A SEQUENTIAL FILE NAME. THIS FILE IS ALSO * 00750003
/* USED FOR THE HOST CONNECT SERVER WITH INTRACCESS. * 00760003
/* HTMPtpl - THE DATA SET NAME OF THE PDS CONTAINING THE HTML * 00770003
/* TEMPLATES FOR HTML OUTPUT FORMAT. THE DEFAULT IS * 00780003
/* THE INSTALLATION SOURCE LIBRARY. * 00790003
/* BGLIB - THE INFORM BACKGROUND LIBRARY. * 00800001
/* ***** * 00810000
//INF EXEC INFOSB, * 00820000
// RGN=2200K, * 00830000
// LOADLIB='INFORM.LOADLIB', * 00840001
// SORTLIB='SYS1.SORTLIB', * 00850000
// RS1LOAD='INFORM.RS1LIB', * 00860001
// DB2LOAD='DB2.LOADLIB', * 00870000
// RESLIB='IMSVS.RESLIB', * 00880001
// PSBLIB='USER.PSBLIB', * 00890001
// DBDLIB='USER.DBDLIB', * 00900001
// REPORTS='INFORM.REPORTS', * 00910001
// INFCOM='INFORM.INFCOM', * 00920001
// FGLIB='INFORM.FGLIB', * 00930001
// HCSCFG='INFORM.SRCLIB(HCSCNFIG)', * 00940003
// HTMPtpl='INFORM.SRCLIB', * 00950003
// BGLIB='INFORM.BGLIB' * 00960001
//VER.SYSIN DD * * 00970000
// VERIFY FILE(INFORMLF) * 00980000
// VERIFY FILE(INFORMCF) * 00990000
// VERIFY FILE(BGLIB) * 01000000
//INF.DFSVSAMP DD * * 01010000
8192,6 * 01020000
/* ***** * 01030000
/* INCLUDE DD STATEMENTS FOR ALL FILES AND DATABASES AVAILABLE TO * 01040000
/* THE BATCH SIMULATOR HERE. USE THE FOLLOWING FORMAT: * 01050000
/* * 01060000
/* //INF.USERFILE DD ..... * 01070000
/* * 01080000
/* IF YOU WANT TO ALLOW SUBFILE CREATION ENTER A DD STATEMENT FOR * 01090000
/* EACH SUBFILE WITH THE FOLLOWING FORMAT: * 01100000
/* * 01110000
/* //INF.USERSUBF DD ..... * 01120000
/* * 01130000
/* IF YOU WANT TO ALLOW SUBFILE DEFINITION CREATION ADD A DD * 01140000
/* STATEMENT FOR M4SUBF0. USE THE FOLLOWING FORMAT: * 01150000
/* * 01160000
/* //INF.M4SUBF0 DD DISP=MOD,DSN=USER.SUBFILE.DEFS * 01170000
/* ***** * 01180000
/* SET UP TSO COMMAND PROCESSOR INPUT HERE: * 01190000
/* ***** * 01200000
//INF.SYSTSIN DD * * 01210000
DSN SYSTEM (DB2 SYSTEM NAME) * 01220000
RUN CP - * 01230000
PLAN (PLANNNAME) * 01240000
CALL 'IMSVS.RESLIB(DFSRRC00)' 'DLI,INFORMDL,INFPSB' * 01250000
END * 01260000
/* ***** * 01270000
/* PLACE INPUT STATEMENTS FOR THE BATCH SIMULATOR HERE: * 01280000
/* ***** * 01290000
//INF.INFIN DD * * 01300001
PLACE QUERY STATEMENTS HERE * 01310000

```

Figure A-47 TINFOSBI — JCL to Run the Batch Simulator with Access to DL/I Databases and DB2 Tables with the TSO Attach Facility (Page 2 of 2)

TRANSFER

```

/* MEMBER TRANSFER                                00010000
/*****                                           00020000
/* THIS PROCEDURE COPIES THE LOAD MODULES NEEDED BY THE CICS ONLINE * 00030000
/* SYSTEM FROM THE INSTALL LOADLIB TO THE ONLINE LOADLIB (DFHRPL). * 00040000
/* THE OUTPUT LOAD MODULES ARE RENAMED USING THE SUPPLIED PREFIX. * 00050000
/*                                           * 00060000
/* ***NOTE*** IF A PREFIX OTHER THAN THE DEFAULT OF 'INFORM' IS * 00070000
/* USED, PLEASE REFER TO THE INSTALLATION MANUAL * 00080000
/* SECTION ON THE TRANSFER JOB FOR DETAILS ON THE USE * 00090000
/* "ZAPOUT" DATASET CREATED BY THIS PROCEDURE. * 00100000
/* FAILURE TO RUN THE ZAP PRODUCED BY THE TRANSFER * 00110003
/* UTILITY WHEN THE DEFAULT PREFIX IS CHANGED WILL RESULT * 00120003
/* IN A "PROGRAM NOT FOUND" CONDITION WHEN THE CICS * 00130003
/* TRANSACTION IS EXECUTED. * 00140003
/*****                                           00150000
//TRANSFER PROC LOADLIB=,                        00160000
//      CICS LIB=,                                00170000
//      PREFIX=,                                  00180001
//      ZAPOUT=,                                  00190001
//BLDCNTL EXEC PGM=TRANSFER,REGION=1M,PARM='&PREFIX' 00200000
//STEPLIB DD DISP=SHR,DSN=&LOADLIB                00210002
//SYSPRINT DD SYSOUT=*                            00220000
//COPYCTL DD DISP=(,PASS),DSN=&&CNTL,              00230000
//      UNIT=SYSDA,SPACE=(TRK,1),DCB=BLKSIZE=3200 00240000
//ZAPOUT DD DSN=&ZAPOUT,DISP=(,CATLG,DELETE),      00250000
//      UNIT=SYSDA,SPACE=(TRK,(1,1),RLSE)          00260000
//COPY EXEC PGM=IEBCOPY,REGION=1M,COND=(4,LT,BLDCNTL) 00270000
//SYSUT3 DD UNIT=SYSDA,SPACE=(TRK,10)             00280000
//SYSUT4 DD UNIT=SYSDA,SPACE=(TRK,10)             00290000
//SYSPRINT DD SYSOUT=*                            00300000
//IN DD DISP=SHR,DSN=&LOADLIB                     00310000
//OUT DD DISP=OLD,DSN=&CICSLIB                    00320000
//SYSIN DD DISP=(OLD,DELETE),DSN=&&CNTL            00330000
//      PEND                                       00340000
/*****                                           00350000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE. * 00360001
/* BEFORE YOU RUN THIS PROCEDURE, SPECIFY: * 00370001
/*                                           * 00380000
/* LOADLIB - THE INFORM INSTALLATION LOAD LIBRARY. * 00390001
/* CICSLIB - THE CICS ONLINE LOAD LIBRARY. * 00400000
/* PREFIX - THE 6-CHARACTER PREFIX TO BE USED ON ALL INFORM * 00410001
/* LOAD MODULE NAMES. * 00420001
/* ZAPOUT - THE DATASET NAME TO BE USED FOR THE CATLOGUED DATASET * 00430000
/* CONTAINING THE ZAP CONTROL STATEMENTS TO BE USED IF * 00440000
/* THE PREFIX VALUE IS CHANGED FROM THE DEFAULT 'INFORM'. * 00450000
/* REFER TO THE INSTALLATION MANUAL FOR DETAILS. * 00460000
/*****                                           00470000
//TRANSF EXEC TRANSFER,                          00480000
//      LOADLIB='INFORM.LOADLIB',                 00490001
//      CICSLIB='CICS.PGMLIB',                    00500001
//      PREFIX='INFORM',                          00510001
//      ZAPOUT='INFORM.ZAPDATA'                   00520001

```

Figure A-48 TRANSFER — JCL to Transfer the Online Program Modules from the Installation Load Library to the CICS Online Program Load Library

Profile Exit Routines

VISION:Inform provides you with the capability to optionally write your own profile exit routine to dynamically change profile values for the duration of a VISION:Inform session. To use the exit routine, you code and assemble your exit routine and link it with VISION:Inform. If you executed the TRANSFER step in the installation, execute that step again.

Using an exit routine, you can:

- Supply a database SELECT statement for a database that does not have one.
- Override an existing database SELECT statement.
- Cancel a database SELECT statement.
- Override or supply ID information in the profile for queries, tasks, or reports.

The exit routine is invoked at logon time once for each database defined in the user's profile or inherited from parent profiles. At quit time, the exit is invoked once.

The exit routine you code can use five parameters. The address of the parameter list is stored in register 1. The parameters are the addresses of:

- A 6-byte exit indicator whose value is LOGON for logon processing or LOGOFF for quit processing.
- An 8-byte character field containing the user ID. The high order bit at this location is on when the exit gets control at logoff time.
- An 8-byte character field containing the database name.
- A 790-byte character field where your exit routine stores the override SELECT statement, if you use one. The field is logically divided into 10 sections, each 79 bytes. Each of the 79-byte sections represents one line of the SELECT statement.

A comma is required at the end of each continued line. The override SELECT has the same format as the user profile's SELECT (that is, SELECT IF X Y AND X Z).

- A 30-byte character field where the ID override information is stored when an override is used.

Before returning control to VISION:Inform, code the exit to store one of the following return codes in Register 15:

0	—	Normal return.
4	—	Dummy exit; no action.
8	—	SELECT should not be used for security purposes.
16	—	Abnormal return; logoff immediately.

[Figure B-1](#) contains a dummy exit routine. This routine is in member PROEXITR of INFORM.SRCLIB. Sample JCL for assembling and linking it into the system is provided in member PRXASMLK of INFORM.JCL and is shown in [Figure A-41, Appendix A. JCL Samples](#).

```

PX          TITLE 'SAMPLE USER PROFILE EXIT'
PROEXITR    CSECT
*S
*S PROEXITR IS A USER-WRITTEN INTERFACE PROGRAM USED WITH THE
*S ONLINE PORTION OF THE PRODUCT. IT WILL RECEIVE CONTROL ON A
*S LOGON AND LOGOFF EXIT FOR A USER SIGNING ON OR OFF.
*S FOR THE LOGON EXIT, IT IS INVOKED ONCE FOR EACH DATABASE THAT
*S THE USER CAN ACCESS.
*S IT IS INVOKED ONLY ONCE FOR THE LOGOFF EXIT.
*
*
*P
*P          PARAMETER LIST DESCRIPTION
*P
*P PXTYPE    DS      CL6          INPUT      TYPE OF EXIT
*P                                           VALUES: 'LOGON ' OR
*P                                           'LOGOFF'
*P
*P PXUSERID  DS      CL8          INPUT      USERID
*P PXDBNAME  DS      CL8          INPUT      DATABASE NAME
*P PXSELECT  DS      10CL79       OUTPUT     SELECT STATEMENT
*P PXID      DS      CL30         OUTPUT     ID FIELD
*P
*P REGISTER 15  = 0              OUTPUT     NORMAL RETURN
*P                                           = 4              NO ACTION
*P                                           = 8              DELETE EXISTING SELECT
*P                                           = 16             ERROR CONDITION - LOGOFF
*
*
*N NOTE: PROEXITR SHOULD BE CODED AS A REENTRANT ASSEMBLER PROGRAM.
*
*
*          LA      15,4              SET DUMMY EXIT OUTPUT PARAMETER
*          BR      14              RETURN TO CALLER
*
*          INPUT PARAMETER LIST
*

```

Figure B-1 A Dummy Profile Exit Routine (Page 1 of 2)

```

PXPRMLST DSECT
PXTYPEAD DS    A          ADDR OF EXIT TYPE
PXUSERAD DS    A          ADDR OF USERID
PXDBAD   DS    A          ADDR OF DATABASE NAME
PXSELAD  DS    A          ADDR OF SELECT STATEMENT
PXIDAD   DS    A          ADDR OF ID FIELD
*
END

```

Figure B-1 A Dummy Profile Exit Routine (Page 2 of 2)

Profile Exit, With Password Validation Entry

The VISION:Inform Profile Exit facility can also be set up to process passwords for your users. This is especially useful if you require password validation processes to interface with your in-house security system (ACF2, Top Secret, RACF, and so on.).

To activate the password validation function of the Profile Exit facility, you must specify the **PASSWDX=YES** keyword in the VISION:Inform parameter module, PARMBLK. With this option specified, the Profile Exit will be invoked one additional time at logon time, just before VISION:Inform processes the user-entered password.

The user exit password verification can either completely replace the VISION:Inform password checking or can be done in addition to VISION:Inform password checking. The parameters passed to the profile exit routine for password verification are:

- The address of a 6-byte character field containing the value PASSWD
- The address of an 8-byte character field containing the input user ID
- The address of an 8-byte character field containing the input password
- The address of a 1-byte flag identifying the calling client, which is one of these:
 - VISION:Intraccess (x'80')
 - VISION:Inform Batch Simulator (x'40')
 - VISION:Inform 3270 (x'20')
 - VISION:Journey 1.7 or earlier (x'10')
 - VISION:Journey 2.0 or later (x'08')

The user exit for the PASSWD call communicates its results to VISION:Inform by setting the contents of Register 15 to one of the following values prior to returning to VISION:Inform:

- 0 Indicates the password is acceptable and that VISION:Inform should bypass its password verification
- 4 Indicates the password is acceptable and that VISION:Inform should also perform its password verification

- 8 Indicates the password is invalid and that VISION:Inform should issue an error indicating the password is invalid. VISION:Inform will not allow the user to log on in this instance

Print Exit Routines

VISION:Inform provides an exit facility so that you have complete control over the processing of the INFREPT data set during a Background Processor run. To use the exit routine, you code and assemble your exit routine and link it with VISION:Inform. If you executed the TRANSFER step in the installation, you must execute that step again.

The user written exit routine has a predefined name of LSTEXITR. A default version of this routine is provided with the system. The default version leaves VISION:Inform in complete control of the INFREPT data set. The LSTEXITR routine is coded using standard IBM linkage conventions to interface with the exit facility.

- VISION:Inform initially invokes the LSTEXITR exit routine just before opening the INFREPT data set. At this time, your routine must set indicators in a mask which tell VISION:Inform at what points during INFREPT processing you want to gain control. The control mask is dynamic; that is, you can alter its value repeatedly during the processing of the INFREPT data set and one final time just before the INFREPT data set is closed, based on the settings of the control mask.

When the INFREPT exit routine gains control, register 1 points to a list of parameter addresses which point to the following:

- An 8-byte field containing the constant 'M4PRINT'.
- A 1-byte field in which you must place one of the following return codes each time the exit returns to VISION:Inform:
 - 0 — To indicate that you want VISION:Inform to perform the operation (OPEN, CLOSE, or PUT).
 - 1 — To indicate that you do not want VISION:Inform to perform the operation.
 - 2 — To indicate that the user-written routine has detected an error and wants to terminate the run immediately with an ABEND. VISION:Inform then terminates with a 3525 ABEND.
- An 8-byte field containing the function about to be performed on the INFREPT data set. This field will contain one of the following:

OPEN	— To indicate the INFREPT data set is about to be opened by VISION:Inform.
BANNER	— To indicate that a PUT is about to be done for one of the banner lines of a VISION:Bridge report.
DETAIL	— To indicate that a PUT is about to be done for a data line of the VISION:Bridge report.
OTHER	— To indicate that a non-DETAIL or non-BANNER record is about to be written to the INFREPT data set.
CLOSE	— To indicate that the INFREPT data set is about to be closed by VISION:Inform.
ENDBATCH	— A batch of queries has finished processing.
- The address of INFREPT DCB.
- The address of the record about to be written to the INFREPT data set. Note that the address of this field in the parameter list will contain binary zeros if the function is OPEN or CLOSE.
- A 6-byte field containing the control mask for user processing of the INFREPT data set.
 - The mask is made up of six 1-byte character fields, one for each of the six exit functions.
 - A mask byte is set to 1 if you want control for the corresponding function.
 - A mask byte is set to 0 if you want no control over a particular function.

The 6-byte mask field is in the following format:

- byte 1 — Mask byte for the OPEN function.
- byte 2 — Mask byte for the CLOSE function.
- byte 3 — Mask byte for the BANNER function.
- byte 4 — Mask byte for the DETAIL function.
- byte 5 — Mask byte for the OTHER function.
- byte 6 — Mask byte for the ENDBATCH function.

[Figure B-2](#) contains a dummy INFREPT exit routine. This routine is also provided in member LSTEXITR of INFORM.SRCLIB. Sample JCL for assembling and linking the exit with the VISION:Inform system is in member LSXASMLK of INFORM.JCL and is shown in [Figure A-36, Appendix A, JCL Samples](#).

```

H8          TITLE 'SAMPLE INFREPT EXIT ROUTINE'
LSTEXITR    CSECT
*
* LSTEXITR IS A USER-WRITTEN EXIT PROGRAM USED TO GAIN CONTROL
* OF THE INFREPT DATA SET. IT WILL RECEIVE CONTROL AT OPEN, CLOSE
* AND PUT PROCESSING FOR INFREPT BASED ON SETTING OF A CONTROL MASK.
*
          SR      15,15          DUMMY EXIT
          BR      14          RETURN TO CALLER
*
*      INPUT PARAMETER LIST
*
H8PRMLST    DSECT
H8EXNAME    DS      A          ADDRESS OF 8-BYTE EXIT NAME 'M4PRINT '
H8RETURN    DS      A          ADDRESS OF 1 BYTE RETURN CODE FIELD
*          C'0' = THE PRODUCT IS TO DO THE OPERATION
*          C'1' = THE PRODUCT SHOULD NOT DO THE OPERATION
*          C'2' = TERMINATE THE RUN WITH 3525 ABEND
H8FUNC      DS      A          ADDRESS OF 8-BYTE FUNCTION
*          'OPEN'   ' = INFREPT ABOUT TO BE OPENED
*          'CLOSE'  ' = INFREPT ABOUT TO BE CLOSED
*          'BANNER' ' = ABOUT TO DO PUT FOR A REPORT
*                      HEADER LINE
*          'DETAIL' ' = ABOUT TO DO PUT FOR A REPORT
*                      DETAIL LINE
*          'OTHER'  ' = ABOUT TO DO PUT FOR A NON
*                      REPORT DETAIL OR HEADER LINE.
*          'ENDBATCH' = A BATCH OF QUERIES HAS FINISHED
*                      PROCESSING.
H8DCB       DS      A          ADDRESS OF DCB/DTF
H8RECORD    DS      A          ADDRESS OF RECORD TO BE PUT - ***NOTE THAT THIS
*          ADDRESS WILL BE X'00' FOR OPEN OR CLOSE FUNCTION
H8MASK      DS      A          ADDRESS OF 6-BYTE CONTROL MASK (DYNAMIC MASK WHICH
*          CAN BE CHANGED ON THE FLY). A C'1' IN A MASK FIELD
*          INDICATES USER WANTS CONTROL OF THAT FUNCTION, AND
*          C'0' INDICATES NO CONTROL IS DESIRED. THE 6-BYTE
*          MASK IS IN THE FOLLOWING FORMAT -
*

```

Figure B-2 A Dummy INFREPT Exit Routine (Page 1 of 2)

```
*          BYTE 1 = 'OPEN      ' MASK CONTROL BYTE
*          BYTE 2 = 'CLOSE     ' MASK CONTROL BYTE
*          BYTE 3 = 'BANNER    ' MASK CONTROL BYTE
*          BYTE 4 = 'DETAIL     ' MASK CONTROL BYTE
*          BYTE 5 = 'OTHER      ' MASK CONTROL BYTE
*          BYTE 6 = 'ENDBATCH' MASK CONTROL BYTE
*
          END
```

Figure B-2 A Dummy INFREPT Exit Routine (Page 2 of 2)

Definition Processor Startup CLIST

The following sample CLIST shows how you can make your Definition Processor libraries available to the ISPF environment.

```

PROC 0

CONTROL LIST MSG

FREE  FI(SYSPROC ISPLLIB ISPMLIB ISPPLLIB ISPSLIB ISPTLIB +
      ISPTABL ISPPROF M9LIST DEFTLIB)

ALLOC FI(SYSPROC) DA( 'SYS1.CMDPROC'      +
                     'ISR.ISPF.ISRCLIB'    +
                     'INFORM.CLIST' ) SHR

/* NOTE THAT THE CLIST LIBRARY HAS BEEN COPIED FROM      */
/* THE ORIGINAL FIXED BLOCK LIBRARY THAT WAS SUPPLIED ON THE */
/* INSTALLATION TAPE, TO A VARIABLE BLOCKED LIBRARY THAT */
/* CONFORMS TO OUR SHOP STANDARDS FOR CLIST LIBRARIES.    */

ALLOC FI(ISPLLIB) DA( 'INFORM.LOADLIB' ) SHR

ALLOC FI(ISPMLIB) DA( 'INFORM.MSGS' +
                     'ISR.ISPF.ISRMLIB' +
                     'ISP.ISPF.ISPMLIB' ) SHR

ALLOC FI(ISPPLIB) DA( 'INFORM.PANELS' +
                     'ISR.ISPF.ISRPLIB' +
                     'ISP.ISPF.ISPPLIB' ) SHR

ALLOC FI(ISPSLIB) DA( 'INFORM.SKELS' +
                     'ISR.ISPF.ISRSLIB' +
                     'ISP.ISPF.ISPSLIB' ) SHR

ALLOC FI(ISPTLIB) DA( 'ISR.ISPF.ISRTLIB' +
                     'ISP.ISPF.ISPTLIB' ) SHR

ALLOC FI(ISPTABL) DA('ISR.ISPF.ISRTLIB')

ALLOC FI(ISPPROF) DA('&SYSUID..ISPF.PROFILE')
ALLOC FI(DEFTLIB) DA('USER.ASSIGNED.NAME') SHR

/* NOTE: THE FOLLOWING ALLOCATE STATEMENT SHOWS HOW YOU CAN */
/* PRE-ALLOCATE YOUR VISION:INFORM UTILITY LIST DATASET.   */
/* THIS IS OPTIONAL. IF THIS DATASET IS NOT PRE-ALLOCATED, */
/* VISION:INFORM WILL DYNAMICALLY ALLOCATE IT WHEN NEEDED. */

ALLOC FI(M9LIST) DA('DEFANS.&SYSUID..M9LIST1') OLD

ISPSTART PANEL (ISR@PRIM)

```

Figure C-1 Sample Definition Processor Startup CLIST

Starting the Definition Processor

The following panel shows how you can start the Definition Processor directly from your ISPF primary menu. You can find this panel in your IBM-supplied ISPF panel library, in member ISR@PRIM. The Definition Processor-specific items are highlighted.

```
%----- ISPF/PDF PRIMARY OPTION MENU -----
%OPTION ==>>ZCMD
%
% 0 +ISPF PARMs - Specify terminal and user parameters      +USERID - &ZUSER
% 1 +BROWSE      - Display source data or output listings  +PROC   - &ZLOGO
% 2 +EDIT        - Create or change source data           +PF KEYS - &ZKEYS
% 3 +UTILITIES   - Perform utility functions              +TERMINAL - &ZTERM
% 4 +FOREGROUND  - Invoke language processors or script    +TIME    - &ZTIME
% 5 +BATCH       - Submit job for language processing      +JULIAN   - &ZJDA
% 6 +COMMAND     - Enter TSO Command or CLIST              +DATE     - &ZDATE
% 7 +DIALOG TEST - Perform Library Administrator Utility Functions
+
% DP +DEFPROC      - Invoke the Definition Processor
+
% T +TUTORIAL     - Display Information About ISPF/PDF
% X +EXIT         - Terminate ISPF using log and list defaults
%
+Enter#END+command to terminate ISPF.
%
)INIT
&M9PRODUCT = 'Workbench' /*Required by the Definition Processor */
.HELP      = ISR0000E
&ZPRIM     = YES
&ZHTOP     = ISR00003
&ZHINDEX   = ISR91000
VPUT (ZHTOP,ZHINDEX) PROFILE
)PROC
&ZSEL - TRANS (TRUNC (&ZCMD, '.'))
          0, 'PANEL (ISFOPTA)'
          1, 'PGM (ISRBRO) PARM (ISRBR001)'
          2, 'PGM (ISREDIT) PARM (P, ISREDM01)'
          3, 'PANEL (ISRUTIL)'
          4, 'PANEL (ISRFPA)'
          5, 'PGM (ISRJB1) PARM (ISRJPA) NOCHECK'
          6, 'PGM (ISRYXDR) NOCHECK'
          7, 'PGM (ISRYXDR) NOCHECK'
          DP, 'PGM (M9BOOT) PARM (PMM4) NOCHECK' /* Invokes Def./Proc.*/
          T, 'PGM (ISPTUTOR) PARM (ISR00000)'
          ' ', ' '
          ' ', ' '
          X, 'EXIT'
          *, '?'
&GVNXTSEL = .TRAIL /* Required by the Definition Processor */
&ZTRAIL - .TRAIL
)END
```

Figure D-1 ISPF/PDF Primary Option Menu

SMPCNTL Data Set JCL Member List

This appendix lists the JCL members in File 1 of the Installation tape, INFORM.R40.SMPCNTL. These jobs are used to define the product to SMP/E, and also to maintain it. A brief description of the JCL members appears below, followed by a listing of the jobs.

Note: There are other, non-JCL members in the SMPCNTL data set. These are input data files to the SMP/E applications, and should not be modified in any way.

Member	Description
INFCOPY1	Copy SMP/E target load library to a new load library
INFCOPY2	Copy SMP/E target load library to an existing load library
INFCOPY3	Copy the rest of the SMP/E controlled data sets to working library copies (CLIST, JCL, MACRO, MSGS, PANEL, SKELS, SOURCE)
LOADTAPE	Load the installation tape files to disk
SMPJOB01	Allocate VISION:Inform SMP/E data sets and initialize the CSI
SMPJOB02	Define VISION:Inform to the Global, Target, and Distributions zones
SMPJOB03	RECEIVE program element SYSMODS into the Global zone
SMPJOB04	RECEIVE the APAR and PTF SYSMODS into the Global zone
SMPJOB05	APPLY the program elements into the target zone
SMPJOB06	APPLY the APAR and PTF elements into the target zone
SMPJOB07	ACCEPT the program elements into the Distribution zone

Member	Description
SMPJOB08	ACCEPT the APAR and PTF elements into the Distribution zone
SMPREJCT	REJECT APAR and PTF elements from the Global zone
SMPREMOV	RESTORE (remove) APAR and PTF elements from the Target Zone

INFCOPY1

```

/* MEMBER INFCOPY1                                00010001
/******                                00020000
/* THIS INSTREAM PROCEDURE WILL COPY THE ENTIRE TARGET LOAD LIBRARY * 00030001
/* FOR VISION:INFORM TO A "NEW" USER LOAD LIBRARY. * 00040001
/* * 00050001
/* THE "NEW" USER LOAD LIBRARY IS DELETED FIRST, THEN RE-ALLOCATED. * 00060001
/******                                00070001
//COPYLIB PROC TARGETL=,                                00080000
//                                USERLIB=,                                00090000
//                                USERUNT=                                00100000
//DELETE EXEC PGM=IEFBR14,REGION=2M                                00110001
//OLD DD DSN=&USERLIB,DISP=(MOD,DELETE),SPACE=(TRK,(0,0)),                                00120001
//                                UNIT=&USERUNT                                00130000
//ALLOC EXEC PGM=IEFBR14,REGION=2M                                00140001
//NEW DD DSN=&USERLIB,SPACE=(TRK,(320,15,120)),                                00150002
//                                DISP=(NEW,CATLG,DELETE),UNIT=&USERUNT,                                00160001
//                                DCB=(RECFM=U,LRECL=0,BLKSIZE=32760)                                00170001
//COPY EXEC PGM=IEBCOPY,REGION=2M                                00180000
//SYSPRINT DD SYSOUT=*                                00190000
//OUT DD DSN=&USERLIB,DISP=OLD                                00200001
//IN DD DSN=&TARGETL,DISP=SHR                                00210001
//SYSUT3 DD UNIT=SYSDA,SPACE=(TRK,60)                                00220000
//SYSUT4 DD UNIT=SYSDA,SPACE=(TRK,60)                                00230000
//                                PEND                                00240000
/******                                00250000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE TO COPY THE * 00260001
/* ENTIRE TARGET LOAD LIBRARY TO A NEW USER LOAD LIBRARY. * 00270001
/* * 00280001
/* BEFORE YOU RUN THIS JOB, SPECIFY: * 00290001
/* * 00300001
/* TARGETL - THE VISION:INFORM TARGET LOAD LIBRARY NAME. * 00310001
/* USERLIB - THE "NEW" USER LOAD LIBRARY NAME. * 00320001
/* USERUNT - THE USER LOAD LIBRARY UNIT. * 00330001
/******                                00340000
//COPYLIB EXEC COPYLIB,                                00350000
//                                TARGETL='INFORM.R40.TARGET.INTLOAD',                                00360001
//                                USERLIB='INFORM.LOADLIB',                                00370003
//                                USERUNT='SYSDA'                                00380001
//COPY.SYSIN DD *                                00390001
COPY INDD=IN,OUTDD=OUT                                00400000

```

Figure E-1 INFCOPY1

INFCOPY2

```

/* MEMBER INFCOPY2                                00010001
/******                                           00020000
/* THIS INSTREAM PROCEDURE WILL COPY THE ENTIRE VISION:INFORM TARGET * 00030001
/* LOAD LIBRARY TO AN "EXISTING" USER LOAD LIBRARY.                * 00040001
/*                                                                    * 00050001
/* THE "EXISTING" USER LOAD LIBRARY MEMBERS ARE REPLACED, AND THE   * 00060001
/* LIBRARY IS COMPRESSED AFTER THE COPY/REPLACE.                   * 00070001
/******                                           00080001
//COPYLIB PROC TARGETL=,                                           00090000
//      USERLIB=                                                    00100000
//COPY      EXEC PGM=IEBCOPY,REGION=2M                             00110000
//SYSPRINT  DD SYSOUT=*                                             00120000
//OUT       DD DSN=&USERLIB,DISP=OLD                                00130001
//IN        DD DSN=&TARGETL,DISP=SHR                                00140001
//SYSUT3    DD UNIT=SYSDA,SPACE=(TRK,150)                          00150000
//SYSUT4    DD UNIT=SYSDA,SPACE=(TRK,150)                          00160000
//          PEND                                                    00170000
/******                                           00180000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THIS PROCEDURE TO COPY THE * 00190001
/* ENTIRE TARGET LOAD LIBRARY TO AN EXISTING USER LOAD LIBRARY.    * 00200001
/*                                                                    * 00210001
/* BEFORE YOU RUN THIS JOB, SPECIFY:                                * 00220001
/*                                                                    * 00230001
/*      TARGETL - THE VISION:INFORM TARGET LOAD LIBRARY NAME.      * 00240001
/*      USERLIB - THE "EXISTING" USER LOAD LIBRARY NAME.          * 00250001
/******                                           00260000
//COPYLIB EXEC COPYLIB,                                           00270000
//      TARGETL='INFORM.R40.TARGET.INTLOAD',                       00280001
//      USERLIB='INFORM.LOADLIB'                                    00290002
//COPY.SYSIN      DD *                                             00300000
COPY INDD=((IN,R)),OUTDD=OUT                                       00310000
COPY INDD=OUT,OUTDD=OUT                                           00320000

```

Figure E-2 INFCOPY2

INFCOPY3

```

/* MEMBER INFCOPY3                                00010000
/******                                           00020000
/* THIS INSTREAM PROCEDURE WILL COPY ALL THE VISION:INFORM TARGET * 00030000
/* LIBRARIES TO NEW COPIES OF THESE LIBRARIES. THE COPIES ARE * 00040000
/* INTENDED TO BE THE WORKING COPY OF THE LIBRARIES TO WHICH ALL * 00050000
/* CUSTOMIZATIONS ARE DONE. THE COPIED LIBRARIES ARE: * 00060000
/* * 00070000
/* THE CLIST LIBRARY - * 00080000
/* THE JCL LIBRARY - * 00090000
/* THE MACRO LIBRARY - * 00100000
/* THE MSGS LIBRARY - * 00110000
/* THE PANEL LIBRARY - * 00120000
/* THE SKELS LIBRARY - * 00130000
/* THE SOURCE LIBRARY. * 00140000
/* * 00150000
/* THE "NEW" USER LIBRARIES ARE DELETED FIRST, THEN RE-ALLOCATED. * 00160000
/******                                           00170000
//COPYLIB PROC TARGETL=,
//                                USERLIB=,
//                                SPACE=,
//                                USERUNT=
//DELETE EXEC PGM=IEFBR14,REGION=2M
//OLD DD DSN=&USERLIB,DISP=(MOD,DELETE),SPACE=(TRK,(0,0)),
//                                UNIT=&USERUNT
//ALLOC EXEC PGM=IEFBR14,REGION=2M
//NEW DD DSN=&USERLIB,SPACE=&SPACE,
//                                DISP=(NEW,CATLG,DELETE),UNIT=&USERUNT,
//                                DCB=(RECFM=FB,LRECL=80,BLKSIZE=27920)
//COPY EXEC PGM=IEBCOPY,REGION=2M
//SYSPRINT DD SYSOUT=*
//OUT DD DSN=&USERLIB,DISP=OLD
//IN DD DSN=&TARGETL,DISP=SHR
//SYSUT3 DD UNIT=SYSDA,SPACE=(TRK,60)
//SYSUT4 DD UNIT=SYSDA,SPACE=(TRK,60)
//                                PEND
//*****                                           00360000
/* THE FOLLOWING ARE SAMPLE EXECUTIONS OF THIS PROCEDURE TO COPY THE * 00370001
/* VARIOUS TARGET LIBRARIES TO A NEW WORKING COPY OF EACH LIBRARY. * 00380001
/* * 00390000
/* BEFORE YOU RUN THIS JOB, FOR EACH INVOCATION OF THE PROCEDURE, * 00400001
/* SPECIFY: * 00410001
/* * 00420001
/* TARGETL - THE VISION:INFORM TARGET LIBRARY NAME. * 00430001
/* USERLIB - THE "NEW" USER LIBRARY NAME. * 00440001
/* SPACE - THE SPACE ALLOCATION FOR THE NEW LIBRARY. * 00450002
/* USERUNT - THE USER LOAD LIBRARY UNIT. * 00460000
/******                                           00470000
//CPCLIST EXEC COPYLIB,
//                                TARGETL='INFORM.R40.TARGET.INTCLIST',
//                                USERLIB='INFORM.CLIST',
//                                SPACE='(TRK,(25,5,15))',
//                                USERUNT='SYSDA'
//COPY.SYSIN DD *
//                                COPY INDD=IN,OUTDD=OUT
//CPJCL EXEC COPYLIB,
//                                TARGETL='INFORM.R40.TARGET.INTJCL',
//                                USERLIB='INFORM.JCL',
//                                SPACE='(TRK,(10,5,15))',
//                                USERUNT='SYSDA'
//COPY.SYSIN DD *
//                                COPY INDD=IN,OUTDD=OUT
//CPMACRO EXEC COPYLIB,
//                                TARGETL='INFORM.R40.TARGET.INTMAC',
//                                USERLIB='INFORM.MACLIB',
//                                SPACE='(TRK,(10,5,10))',

```

Figure E-3 INFCOPY3 (Page 1 of 2)

```

//          USERUNT='SYSDA'                                00660002
//COPY.SYSIN DD *                                           00670003
COPY INDD=IN,OUTDD=OUT                                     00680002
//CPMSGG EXEC COPYLIB,                                     00690002
//          TARGETL='INFORM.R40.TARGET.INTMSGG',          00700002
//          USERLIB='INFORM.MSGG',                        00710002
//          SPACE='(TRK,(15,5,40))',                      00720002
//          USERUNT='SYSDA'                                00730002
//COPY.SYSIN DD *                                           00740003
COPY INDD=IN,OUTDD=OUT                                     00750002
//CPPANEL EXEC COPYLIB,                                     00760002
//          TARGETL='INFORM.R40.TARGET.INTPANEL',          00770002
//          USERLIB='INFORM.PANELS',                      00780002
//          SPACE='(TRK,(100,10,250))',                   00790002
//          USERUNT='SYSDA'                                00800002
//COPY.SYSIN DD *                                           00810003
COPY INDD=IN,OUTDD=OUT                                     00820002
//CPSKELS EXEC COPYLIB,                                     00830002
//          TARGETL='INFORM.R40.TARGET.INTSKELS',          00840002
//          USERLIB='INFORM.SKELS',                      00850002
//          SPACE='(TRK,(5,1,5))',                       00860002
//          USERUNT='SYSDA'                                00870002
//COPY.SYSIN DD *                                           00880003
COPY INDD=IN,OUTDD=OUT                                     00890002
//CPSRC EXEC COPYLIB,                                      00900002
//          TARGETL='INFORM.R40.TARGET.INTSRC',            00910002
//          USERLIB='INFORM.SRCLIB',                      00920002
//          SPACE='(TRK,(50,5,15))',                     00930002
//          USERUNT='SYSDA'                                00940002
//COPY.SYSIN DD *                                           00950003
COPY INDD=IN,OUTDD=OUT                                     00960002

```

Figure E-3 INFCOPY3 (Page 2 of 2)

LOADTAPE

```

/* MEMBER LOADTAPE                                00010000
/******                                           00020000
/* THIS JOB LOADS FILES 2-13 FROM THE INSTALLATION TAPE.      * 00030000
/* FILE 1, THE SMP/E CONTROL PDS WHICH CONTAINS THIS MEMBER, WAS * 00040000
/* LOADED IN AN EARLIER INSTALLATION STEP.                  * 00050000
/******                                           00060000
//GENER PROC NAME=,                                00070000
//          TUNIT=,                                00080000
//          TVOLSER=,                              00090000
//          FILENUM=,                             00100000
//          TRK=,                                  00110000
//          DUNIT=,                                00120000
//          DVOLSER=,                              00130000
//GENER EXEC PGM=IEBGENER,REGION=2M                00140000
//SYSPRINT DD SYSOUT=*                             00150000
//SYSIN DD DUMMY                                   00160000
//SYSUT1 DD DSN=INFORM.CICS.FILE&FILENUM,UNIT=&TUNIT,DISP=OLD, 00170002
//          VOL=(PRIVATE,RETAIN,SER=&TVOLSER),LABEL=(&FILENUM,SL) 00180000
//SYSUT2 DD DSN=&NAME,DISP=(,CATLG,DELETE),VOL=SER=&DVOLSER,    00190000
//          UNIT=&DUNIT,SPACE=(TRK,&TRK,RLSE)                  00200000
//          PEND                                              00210000
//COPY PROC NAME=,                                00220000
//          TUNIT=,                                00230000
//          TVOLSER=,                              00240000
//          FILENUM=,                             00250000
//          TRK=,                                  00260000
//          DUNIT=,                                00270000
//          DVOLSER=,                              00280000
//COPY EXEC PGM=IEBCOPY,REGION=2M                  00290000
//SYSPRINT DD SYSOUT=*                             00300000
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,5))           00310000
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,5))           00320000
//IN DD DSN=INFORM.CICS.FILE&FILENUM,UNIT=&TUNIT,DISP=OLD,    00330002
//          VOL=(PRIVATE,RETAIN,SER=&TVOLSER),LABEL=(&FILENUM,SL) 00340000
//OUT DD DSN=&NAME,DISP=(,CATLG,DELETE),VOL=SER=&DVOLSER,      00350000
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120),UNIT=&DUNIT,   00360000
//          SPACE=(TRK,&TRK)                                00370000
//          PEND                                              00380000
//COPYL PROC NAME=,                                00390000
//          TUNIT=,                                00400000
//          TVOLSER=,                              00410000
//          FILENUM=,                             00420000
//          TRK=,                                  00430000
//          DUNIT=,                                00440000
//          DVOLSER=,                              00450000
//COPYL EXEC PGM=IEBCOPY,REGION=2M                 00460000
//SYSPRINT DD SYSOUT=*                             00470000
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,5))           00480000
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,5))           00490000
//IN DD DSN=INFORM.CICS.FILE&FILENUM,UNIT=&TUNIT,DISP=OLD,    00500002
//          VOL=(PRIVATE,RETAIN,SER=&TVOLSER),LABEL=(&FILENUM,SL) 00510000
//OUT DD DSN=&NAME,DISP=(,CATLG,DELETE),VOL=SER=&DVOLSER,      00520000
//          DCB=(RECFM=U,LRECL=0,BLKSIZE=32760),UNIT=&DUNIT,   00530000
//          SPACE=(TRK,&TRK)                                00540000
//          PEND                                              00550000
/******                                           00560000
/* THE FOLLOWING IS A SAMPLE EXECUTION OF THESE PROCEDURES.  * 00570000
/* BEFORE YOU RUN THESE PROCEDURES, SPECIFY:              * 00580000
/*                                                         * 00590000
/* NAME - DISK DATASET IN WHICH TO LOAD THE TAPE FILE.      * 00600001
/* TVOLSER - VOLUME SERIAL NUMBER OF THE INSTALLATION TAPE. * 00610000
/* FILENUM - NUMBER OF THE TAPE FILE TO LOAD.              * 00620001
/* TRK - SPACE ALLOCATION FOR DASD DATASETS. THE SAMPLES ARE * 00630000
/* FOR 3390 DEVICES.                                       * 00640001
/* DVOLSER - VOLUME SERIAL NUMBER OF A DASD.                * 00650000

```

Figure E-4 LOADTAPE (Page 1 of 4)

```

/* TUNIT - UNIT TYPE FOR THE INSTALLATION TAPE (DEFAULT TO TAPE). * 00660000
/* DUNIT - UNIT TYPE FOR A DASD. THE DEFAULT IS SYSDA. * 00670000
/***** 00680000
/* FILE2 : ALLOCATES THE JCL LIBRARY AND LOADS IT FROM TAPE. * 00690000
/***** 00700000
//FILE2 EXEC COPY, 00710000
// NAME='INFORM.R40.INFJCL', 00720000
// TUNIT=TAPE, 00730000
// TVOLSER=TAPVOL, 00740000
// FILENUM=2, 00750000
// TRK='(15,5,10)', 00760000
// DUNIT=SYSDA, 00770000
// DVOLSER=DSKVOL 00780000
//SYSIN DD * 00790000
C I=IN,O=OUT 00800000
/***** 00810000
/* FILE3 : ALLOCATES THE MACRO LIBRARY AND LOADS IT FROM THE TAPE. * 00820000
/***** 00830000
//FILE3 EXEC COPY, 00840000
// NAME='INFORM.R40.INFMAC', 00850000
// TUNIT=TAPE, 00860000
// TVOLSER=TAPVOL, 00870000
// FILENUM=3, 00880000
// TRK='(10,3,2)', 00890000
// DUNIT=SYSDA, 00900000
// DVOLSER=DSKVOL 00910000
//SYSIN DD * 00920000
C I=IN,O=OUT 00930000
/***** 00940000
/* FILE4 : ALLOCATES THE SOURCE LIBRARY AND LOADS IT FROM THE TAPE. * 00950000
/***** 00960000
//FILE4 EXEC COPY, 00970000
// NAME='INFORM.R40.INFSRC', 00980000
// TUNIT=TAPE, 00990000
// TVOLSER=TAPVOL, 01000000
// FILENUM=4, 01010000
// TRK='(50,10,10)', 01020000
// DUNIT=SYSDA, 01030000
// DVOLSER=DSKVOL 01040000
//SYSIN DD * 01050000
C I=IN,O=OUT 01060000
/***** 01070000
/* FILE5 : ALLOCATES AND LOADS THE SYSTEM LOAD LIBRARY. * 01080000
/***** 01090000
//FILE5 EXEC COPYL, 01100000
// NAME='INFORM.R40.INFLOAD', 01110000
// TUNIT=TAPE, 01120000
// TVOLSER=TAPVOL, 01130000
// FILENUM=5, 01140000
// TRK='(400,50,200)', 01150000
// DUNIT=SYSDA, 01160000
// DVOLSER=DSKVOL 01170000
//SYSIN DD * 01180000
C I=IN,O=OUT 01190000
/***** 01200000
/* FILE6 : COPIES FINANCE FILE TO A TEMPORARY DISK FILE. * 01210000
/***** 01220000
//FILE6 EXEC GENER, 01230000
// NAME='INFORM.R40.TEMPFIN', 01240000
// TUNIT=TAPE, 01250000
// TVOLSER=TAPVOL, 01260000
// FILENUM=6, 01270000
// TRK='(5,5)', 01280000
// DUNIT=SYSDA, 01290000
// DVOLSER=DSKVOL 01300000
/***** 01310000
/* FILE7 : ALLOCATES AND LOADS SAMPLE DEFINITION LIBRARY FROM TAPE. * 01320000
/***** 01330000
//FILE7 EXEC COPY, 01340000
// NAME='INFORM.R40.DEFLIB', 01350000

```

Figure E-4 LOADTAPE (Page 2 of 4)

```

//      TUNIT=TAPE,                                01360000
//      TVOLSER=TAPVOL,                             01370000
//      FILENUM=7,                                   01380000
//      TRK='(30,15,20)',                           01390000
//      DUNIT=SYSDA,                                 01400000
//      DVOLSER=DSKVOL                              01410000
//SYSIN DD *                                         01420000
C I=IN,O=OUT                                       01430000
//*****                                           01440000
//* FILE8 : ALLOCATES THE PANEL LIBRARY AND LOADS IT FROM THE TAPE. * 01450000
//*****                                           01460000
//FILE8 EXEC COPY,                                01470000
//      NAME='INFORM.R40.INFPANEL',                 01480000
//      TUNIT=TAPE,                                 01490000
//      TVOLSER=TAPVOL,                             01500000
//      FILENUM=8,                                   01510000
//      TRK='(100,20,250)',                         01520000
//      DUNIT=SYSDA,                                 01530000
//      DVOLSER=DSKVOL                              01540000
//SYSIN DD *                                         01550000
C I=IN,O=OUT                                       01560000
//*****                                           01570000
//* FILE9 : ALLOCATES THE MESSAGE LIBRARY AND LOADS IT FROM TAPE. * 01580000
//*****                                           01590000
//FILE9 EXEC COPY,                                01600000
//      NAME='INFORM.R40.INFMSG',                   01610000
//      TUNIT=TAPE,                                 01620000
//      TVOLSER=TAPVOL,                             01630000
//      FILENUM=9,                                   01640000
//      TRK='(15,5,50)',                            01650000
//      DUNIT=SYSDA,                                 01660000
//      DVOLSER=DSKVOL                              01670000
//SYSIN DD *                                         01680000
C I=IN,O=OUT                                       01690000
//*****                                           01700000
//* FILE10 : ALLOCATES THE SKEL LIBRARY AND LOADS IT FROM TAPE. * 01710000
//*****                                           01720000
//FILE10 EXEC COPY,                               01730000
//      NAME='INFORM.R40.INFSKELS',                 01740000
//      TUNIT=TAPE,                                 01750000
//      TVOLSER=TAPVOL,                             01760000
//      FILENUM=10,                                  01770000
//      TRK='(5,2,5)',                              01780000
//      DUNIT=SYSDA,                                 01790000
//      DVOLSER=DSKVOL                              01800000
//SYSIN DD *                                         01810000
C I=IN,O=OUT                                       01820000
//*****                                           01830000
//* FILE11 : ALLOCATES THE CLIST LIBRARY AND LOADS IT FROM THE TAPE. * 01840000
//*****                                           01850000
//FILE11 EXEC COPY,                               01860000
//      NAME='INFORM.R40.INFCLIST',                 01870000
//      TUNIT=TAPE,                                 01880000
//      TVOLSER=TAPVOL,                             01890000
//      FILENUM=11,                                  01900000
//      TRK='(25,5,15)',                            01910000
//      DUNIT=SYSDA,                                 01920000
//      DVOLSER=DSKVOL                              01930000
//SYSIN DD *                                         01940000
C I=IN,O=OUT                                       01950000
//*****                                           01960000
//* FILE12 : ALLOCATES AND LOADS THE DB2 DBRM LIBRARY FROM TAPE. * 01970000
//*****                                           01980000
//FILE12 EXEC COPY,                               01990000
//      NAME='INFORM.R40.DBRM',                    02000000
//      TUNIT=TAPE,                                 02010000
//      TVOLSER=TAPVOL,                             02020000
//      FILENUM=12,                                  02030000
//      TRK='(5,5,10)',                             02040000
//      DUNIT=SYSDA,                                 02050000

```

Figure E-4 LOADTAPE (Page 3 of 4)

```
//          DVOLSER=DSKVOL                                02060000
//SYSIN DD *                                              02070000
//          C I=IN,O=OUT                                  02080000
//          *****                                         02090000
//          * FILE13 : MOVE UTLITY LIBRARY TO TEMPORARY DISK FILE. * 02100000
//          *****                                         02110000
//          FILE13 EXEC GENER,                               02120000
//          NAME='INFORM.R40.TEMPOTL',                       02130000
//          TUNIT=TAPE,                                     02140000
//          TVOLSER=TAPVOL,                                  02150000
//          FILENUM=13,                                      02160000
//          TRK=' (5,5) ',                                   02170000
//          DUNIT=SYSDA,                                    02180000
//          DVOLSER=DSKVOL                                  02190000
```

Figure E-4 LOADTAPE (Page 4 of 4)

SMPJOB01

```

/* MEMBER SMPJOB01                                00010010
/******                                00020001
/* ALLOCATE ALL VISION:INFORM SMP/E DATA SETS AND INITIALIZE THE CSI.* 00030002
/******                                00040005
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A * 00050014
/* GLOBAL CHANGE COMMAND. * 00060012
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00070012
/* * 00080005
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00090012
/* 2) CHANGE THE "VOLUMES(VOLSER)" PARAMETER IN THE STEP1 IDCAMS * 00100012
/* DEFINE CLUSTER STATEMENT TO POINT TO A VALID VOLSER OR VOLSER * 00110012
/* LIST FOR THE CSI DEFINITION. * 00120012
/* 3) CHANGE THE HI-LEVEL DSN OF ALL DATASETS FROM THE DEFAULT OF * 00130012
/* 'INFORM.' OR 'INFORM.R40.' TO ONE THAT MEETS YOUR SITE * 00140005
/* STANDARDS. IT IS NOT RECOMMENDED THAT THE LOW DEVEL DSNS BE * 00150013
/* CHANGED. * 00160005
/* 4) CHANGE THE UNIT ALLOCATION FROM THE DEFAULT 'UNIT=SYSDA' TO * 00170012
/* WHATEVER IS PROPER FOR YOUR SITE STANDARDS. * 00180005
/******                                00190005
/* ALLOCATE THE CSI. * 00200002
/******                                00210002
//STEP1 EXEC PGM=IDCAMS,REGION=4M                                00220001
//SYSPRINT DD SYSOUT=*                                          00230001
//SYSIN DD *                                                    00240001
DELETE (INFORM.R40.CSI) CLUSTER                                00250001
SET MAXCC=0                                                     00260001
DEFINE CLUSTER (NAME(INFORM.R40.CSI) -                          00270001
                FREESPACE(10,5) -                               00280001
                KEYS(24 0) -                                     00290001
                RECORDSIZE(24 143) -                             00300001
                SHAREOPTIONS(2 3) -                               00310001
                VOLUMES(VOLSER) -                                00320008
                UNIQUE) -                                         00330001
DATA (NAME(INFORM.R40.CSI.DATA) -                                00340001
      CONTROLINTERVALSIZE(4096) -                                00350001
      CYLINDERS(60 20)) -                                         00360001
INDEX (NAME(INFORM.R40.CSI.INDEX) -                               00370001
      CYLINDERS(5 5) -                                             00380001
      IMBED)                                                       00390004
/******                                00400002
/* INITIALIZE THE CSI. * 00410002
/******                                00420002
//STEP2 EXEC PGM=IDCAMS,REGION=4M                                00430001
//SYSPRINT DD SYSOUT=*                                          00440001
//SMPECSI DD DSN=INFORM.R40.CSI,DISP=OLD                        00450001
//ZPOOL DD DSN=SYS1.MACLIB(GIMZPOOL),DISP=SHR                  00460001
//SYSIN DD *                                                    00470001
REPRO OUTFILE(SMPECSI) INFILE(ZPOOL)                          00480001
/******                                00490002
/* DELETE PREVIOUS PTS DATASET. * 00500002
/******                                00510002
//STEP3 EXEC PGM=IEFBR14                                         00520001
//DD1 DD DSN=INFORM.R40.SMPPTS,DISP=(MOD,DELETE),              00530001
// SPACE=(TRK,(0,0)),UNIT=SYSDA                                00540002
/******                                00550002
/* ALLOCATE PTS DATASET. * 00560002
/******                                00570002
//STEP4 EXEC PGM=IEFBR14                                         00580001
//SMPPTS DD DSN=INFORM.R40.SMPPTS,DISP=(NEW,CATLG,DELETE),      00590001
// DSNTYPE=LIBRARY,UNIT=SYSDA,SPACE=(CYL,(5,5,50)),            00600002
// DCB=(RECFM=FB,LRECL=80)                                       00610001
/******                                00620002
/* DELETE PREVIOUS SMP/E DATA SETS: MTS, SCDS, STS, LOG, LOGA. * 00630002
/******                                00640002
//STEP5 EXEC PGM=IEFBR14                                         00650001

```

Figure E-5 SMPJOB01 (Page 1 of 3)

```

//DD1      DD DSN=INFORM.R40.SMPMTS,DISP=(MOD,DELETE),      00660001
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00670002
//DD2      DD DSN=INFORM.R40.SMPSCDS,DISP=(MOD,DELETE),      00680001
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00690002
//DD3      DD DSN=INFORM.R40.SMPSTS,DISP=(MOD,DELETE),        00700001
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00710002
//DD4      DD DSN=INFORM.R40.SMPLOG,DISP=(MOD,DELETE),         00720001
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00730002
//DD5      DD DSN=INFORM.R40.SMPLOGA,DISP=(MOD,DELETE),        00740006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00750002
//          ***** 00760002
//          * ALLOCATE SMP/E DATA SETS: MTS, SCDS, STS, LOG, LOGA. * 00770002
//          ***** 00780002
//STEP6 EXEC PGM=IEFBR14 00790001
//SMPMTS   DD DSN=INFORM.R40.SMPMTS,DISP=(NEW,CATLG,DELETE),  00800001
//          UNIT=SYSDA,SPACE=(CYL,(2,1,50)),DCB=(RECFM=FB,LRECL=80) 00810002
//SMPSCDS   DD DSN=INFORM.R40.SMPSCDS,DISP=(NEW,CATLG,DELETE), 00820001
//          UNIT=SYSDA,SPACE=(CYL,(2,1,50)),DCB=(RECFM=FB,LRECL=80) 00830002
//SMPSTS   DD DSN=INFORM.R40.SMPSTS,DISP=(NEW,CATLG,DELETE),  00840001
//          UNIT=SYSDA,SPACE=(CYL,(2,1,50)),DCB=(RECFM=FB,LRECL=80) 00850002
//SMPLOG   DD DSN=INFORM.R40.SMPLOG,DISP=(NEW,CATLG,DELETE),   00860001
//          UNIT=SYSDA,SPACE=(CYL,(5,2)),                   00870002
//          DCB=(RECFM=VB,LRECL=510,BLKSIZE=27900)           00880001
//SMPLOGA   DD DSN=INFORM.R40.SMPLOGA,DISP=(NEW,CATLG,DELETE), 00890001
//          UNIT=SYSDA,SPACE=(CYL,(5,2)),                   00900002
//          DCB=(RECFM=VB,LRECL=510,BLKSIZE=27900)           00910001
//          ***** 00920006
//          * DELETE PREVIOUS SMP/E DISTRIBUTION LIBRARIES. * 00930006
//          ***** 00940006
//STEP7 EXEC PGM=IEFBR14 00950006
//DD1      DD DSN=INFORM.R40.DISTRIB.INDLOAD,DISP=(MOD,DELETE), 00960006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00970006
//DD2      DD DSN=INFORM.R40.DISTRIB.INDMAC,DISP=(MOD,DELETE),  00980006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    00990006
//DD3      DD DSN=INFORM.R40.DISTRIB.INDSRC,DISP=(MOD,DELETE),  01000006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01010006
//DD4      DD DSN=INFORM.R40.DISTRIB.INDJCL,DISP=(MOD,DELETE),  01020006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01030006
//DD5      DD DSN=INFORM.R40.DISTRIB.INDCLIST,DISP=(MOD,DELETE), 01040006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01050006
//DD6      DD DSN=INFORM.R40.DISTRIB.INDPANEL,DISP=(MOD,DELETE), 01060006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01070006
//DD7      DD DSN=INFORM.R40.DISTRIB.INDMSGSGS,DISP=(MOD,DELETE), 01080006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01090006
//DD8      DD DSN=INFORM.R40.DISTRIB.INDSKELS,DISP=(MOD,DELETE), 01100006
//          SPACE=(TRK,(0,0)),UNIT=SYSDA                    01110006
//          ***** 01120006
//          * ALLOCATE SMP/E DISTRIBUTION LIBRARIES. * 01130006
//          ***** 01140006
//STEP8 EXEC PGM=IEFBR14 01150006
//INDLOAD   DD DSN=INFORM.R40.DISTRIB.INDLOAD,DISP=(NEW,CATLG,DELETE), 01160006
//          UNIT=SYSDA,SPACE=(TRK,(360,15,150)),             01170006
//          DCB=(RECFM=U,LRECL=0,BLKSIZE=32760)              01180006
//INDMAC     DD DSN=INFORM.R40.DISTRIB.INDMAC,DISP=(NEW,CATLG,DELETE), 01190006
//          UNIT=SYSDA,SPACE=(TRK,(10,5,10)),                 01200006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                 01210006
//INDSRC     DD DSN=INFORM.R40.DISTRIB.INDSRC,DISP=(NEW,CATLG,DELETE), 01220006
//          UNIT=SYSDA,SPACE=(TRK,(50,5,15)),                 01230006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                 01240006
//INDJCL     DD DSN=INFORM.R40.DISTRIB.INDJCL,DISP=(NEW,CATLG,DELETE), 01250006
//          UNIT=SYSDA,SPACE=(TRK,(10,5,10)),                 01260006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                 01270006
//INDCLIST   DD DSN=INFORM.R40.DISTRIB.INDCLIST,DISP=(NEW,CATLG,DELETE), 01280006
//          UNIT=SYSDA,SPACE=(TRK,(20,5,10)),                 01290006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                 01300006
//INDPANEL   DD DSN=INFORM.R40.DISTRIB.INDPANEL,DISP=(NEW,CATLG,DELETE), 01310006
//          UNIT=SYSDA,SPACE=(TRK,(120,5,250)),               01320006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                 01330006
//INDMSGSGS  DD DSN=INFORM.R40.DISTRIB.INDMSGSGS,DISP=(NEW,CATLG,DELETE), 01340006
//          UNIT=SYSDA,SPACE=(TRK,(15,1,40)),                 01350006

```

Figure E-5 SMPJOB01 (Page 2 of 3)


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//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01360006
//INDSKELS DD DSN=INFORM.R40.DISTRIB.INDSKELS,DISP=(NEW,CATLG,DELETE),        01370006
//          UNIT=SYSDA,SPACE=(TRK,(5,1,5)),                                  01380006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01390006
//*****                                                                    01400006
//* DELETE PREVIOUS SMP/E TARGET LIBRARIES. *                                01410006
//*****                                                                    01420006
//STEP9 EXEC PGM=IEFBR14                                                    01430006
//DD1 DD DSN=INFORM.R40.TARGET.INTLOAD,DISP=(MOD,DELETE),                    01440007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01450006
//DD2 DD DSN=INFORM.R40.TARGET.INTMAC,DISP=(MOD,DELETE),                     01460007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01470006
//DD3 DD DSN=INFORM.R40.TARGET.INTSRC,DISP=(MOD,DELETE),                     01480007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01490006
//DD4 DD DSN=INFORM.R40.TARGET.INTJCL,DISP=(MOD,DELETE),                     01500007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01510006
//DD5 DD DSN=INFORM.R40.TARGET.INTCLIST,DISP=(MOD,DELETE),                   01520007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01530006
//DD6 DD DSN=INFORM.R40.TARGET.INTPANEL,DISP=(MOD,DELETE),                   01540007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01550006
//DD7 DD DSN=INFORM.R40.TARGET.INTMSGSG,DISP=(MOD,DELETE),                   01560007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01570006
//DD8 DD DSN=INFORM.R40.TARGET.INTSKELS,DISP=(MOD,DELETE),                   01580007
//      SPACE=(TRK,(0,0)),UNIT=SYSDA                                         01590006
//*****                                                                    01600006
//* ALLOCATE SMP/E TARGET LIBRARIES. *                                      01610006
//*****                                                                    01620006
//STEP10 EXEC PGM=IEFBR14                                                    01630006
//INTLOAD DD DSN=INFORM.R40.TARGET.INTLOAD,DISP=(NEW,CATLG,DELETE),          01640008
//          UNIT=SYSDA,SPACE=(TRK,(360,15,150)),                             01650006
//          DCB=(RECFM=U,LRECL=0,BLKSIZE=32760)                             01660006
//INTMAC DD DSN=INFORM.R40.TARGET.INTMAC,DISP=(NEW,CATLG,DELETE),             01670008
//          UNIT=SYSDA,SPACE=(TRK,(10,5,10)),                                01680006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01690006
//INTSRC DD DSN=INFORM.R40.TARGET.INTSRC,DISP=(NEW,CATLG,DELETE),             01700008
//          UNIT=SYSDA,SPACE=(TRK,(50,5,15)),                                01710006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01720006
//INTJCL DD DSN=INFORM.R40.TARGET.INTJCL,DISP=(NEW,CATLG,DELETE),             01730008
//          UNIT=SYSDA,SPACE=(TRK,(10,5,10)),                                01740006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01750006
//INTCLIST DD DSN=INFORM.R40.TARGET.INTCLIST,DISP=(NEW,CATLG,DELETE),         01760008
//          UNIT=SYSDA,SPACE=(TRK,(20,5,10)),                                01770006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01780006
//INTPANEL DD DSN=INFORM.R40.TARGET.INTPANEL,DISP=(NEW,CATLG,DELETE),         01790008
//          UNIT=SYSDA,SPACE=(TRK,(120,5,250)),                              01800006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01810006
//INTMSGSG DD DSN=INFORM.R40.TARGET.INTMSGSG,DISP=(NEW,CATLG,DELETE),         01820008
//          UNIT=SYSDA,SPACE=(TRK,(15,1,40)),                                01830006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01840006
//INTSKELS DD DSN=INFORM.R40.TARGET.INTSKELS,DISP=(NEW,CATLG,DELETE),         01850008
//          UNIT=SYSDA,SPACE=(TRK,(5,1,5)),                                  01860006
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=0)                                01870006

```

Figure E-5 SMPJOB01 (Page 3 of 3)

SMPJOB02

```

/* MEMBER SMPJOB02                                00010005
/******                                00020000
/* DEFINE THE VISION:INFORM PRODUCT IN THE GLOBAL, TARGET, AND * 00030000
/* DISTRIBUTION ZONES.                                * 00040000
/******                                00050000
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A * 00060012
/* GLOBAL CHANGE COMMAND.                                * 00070010
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES:      * 00080010
/*                                                    * 00090010
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT.                * 00100010
/* 2) CHANGE 'INFORM.' OR 'INFORM.R40.' TO THE HIGH LEVEL DSN VALUE * 00110010
/* USED IN THE PREVIOUS JOB (SMPJOB01). IT IS NOT RECOMMENDED * 00120011
/* THAT THE LOW LEVEL DSNs BE CHANGED.                  * 00130012
/* 3) FIND THE TWO OCCURRENCES OF 'IMS.RESLIB', AND CHANGE THE DSN * 00140010
/* TO THAT OF THE IMS SYSTEM RESIDENCE LIBRARY.          * 00150000
/* 4) FIND THE TWO OCCURRENCES OF 'CICS.SDFHLOAD', AND CHANGE THE * 00160010
/* DSN TO THAT OF THE CICS SYSTEM LOAD LIBRARY.          * 00170003
/* 5) FIND THE TWO OCCURRENCES OF 'DB2.SDSNLOAD', AND CHANGE THE DSN * 00180010
/* TO THAT OF THE DB2 SYSTEM LOAD LIBRARY.              * 00190007
/******                                00200000
//SMPE EXEC PGM=GIMSMP,REGION=4M                    00210000
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR              00220000
//SMPLOG DD DSN=INFORM.R40.SMPLOG,DISP=MOD            00230000
//SMPLOGA DD DSN=INFORM.R40.SMPLOGA,DISP=MOD          00240000
//SMPPTS DD DSN=INFORM.R40.SMPPTS,DISP=SHR            00250000
//SMPOUT DD SYSOUT=*                                  00260000
//SMPSNAP DD SYSOUT=*                                  00270000
//SYSPRINT DD SYSOUT=*                                00280000
//SMPRPT DD SYSOUT=*                                  00290009
//SMPCNTL DD *                                         00300000
SET BDY(GLOBAL). /* DEFINE GLOBAL ZONE ENTRIES */    00310001
UCLIN.                                                00320000
ADD GLOBALZONE SREL (Z038) FMID (CDAC400) OPTIONS (IN40COP) 00330000
ZONEDESCRIPTION (ADVANTAGE VISION:INFORM RELEASE 4.0)    00340000
ZONEINDEX ((IN40CDZ, INFORM.R40.CSI,DLIB)              00350000
            (IN40CTZ, INFORM.R40.CSI,TARGET)).          00360000
ADD OPTIONS (IN40COP) AMS (AMS) ASM (ASSEM) COMP (COMPRESS) COPY (COPY) 00370000
LKED (LINKEDIT) NOPURGE NOREJECT RETRY (RETRY) UPDATE (UPDATE) 00380000
ZAP (IMASPZAP).                                         00390000
ADD UTILITY (AMS) NAME (IDCAMS).                      00400000
ADD UTILITY (ASSEM) NAME (ASMA90) PARM (XREF,NOOBJECT,DECK) RC (04). 00410000
ADD UTILITY (COMPRESS) NAME (IEBCOPY).                 00420000
ADD UTILITY (COPY) NAME (IEBCOPY).                   00430000
ADD UTILITY (LINKEDIT) NAME (IEWL) PARM (LET,LIST,NCAL,XREF) RC (08). 00440000
ADD UTILITY (RETRY) NAME (IEBCOPY).                   00450000
ADD UTILITY (UPDATE) NAME (IEBUPDTE).                 00460000
ADD UTILITY (IMASPZAP) NAME (IMASPZAP) PARM (IGNIDRFULL) RC (04).    00470000
ADD DDDEF (SMPLOG) DA (INFORM.R40.SMPLOG) MOD.         00480000
ADD DDDEF (SMPLOGA) DA (INFORM.R40.SMPLOGA) MOD.       00490000
ADD DDDEF (SMPPTS) DA (INFORM.R40.SMPPTS) OLD.         00500000
ADD DDDEF (SMPOUT) SYSOUT (*).                         00510000
ADD DDDEF (SMPRPT) SYSOUT (*).                         00520000
ADD DDDEF (SMPLIST) SYSOUT (*).                       00530002
ADD DDDEF (SYSPRINT) SYSOUT (*).                      00540002
ADD DDDEF (SMPTLIB) UNIT (SYSDA).                     00550000
ADD DDDEF (SYSUT1) UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE. 00560000
ADD DDDEF (SYSUT2) UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE. 00570000
ADD DDDEF (SYSUT3) UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE. 00580000
ADD DDDEF (SYSUT4) UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE. 00590000
ENDUCL.                                                00600000
SET BDY (IN40CDZ). /* DEFINE DISTRIBUTION ZONE ENTRIES */ 00610001
UCLIN.                                                00620000
ADD DLIBZONE (IN40CDZ) SREL (Z038) RELATED (IN40CTZ) OPTIONS (IN40COP). 00630000
ADD DDDEF (SMPSCDS) DA (INFORM.R40.SMPSCDS) OLD.      00640000
ADD DDDEF (SMPMTS) DA (INFORM.R40.SMPMTS) OLD.        00650000

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Figure E-3 SMPJOB02 (Page 1 of 3)

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ADD DDDEF(SMPPTS)      DA (INFORM.R40.SMPPTS) SHR.          00660000
ADD DDDEF(SMPSTS)      DA (INFORM.R40.SMPSTS) OLD.          00670000
ADD DDDEF(SMPLOG)      DA (INFORM.R40.SMPLOG) MOD.          00680000
ADD DDDEF(SMPLOGA)     DA (INFORM.R40.SMPLOGA) MOD.          00690000
ADD DDDEF(INTLOAD)     DA (INFORM.R40.TARGET.INTLOAD) SHR.    00700000
ADD DDDEF(INTMAC)      DA (INFORM.R40.TARGET.INTMAC) SHR.     00710000
ADD DDDEF(INTSRC)      DA (INFORM.R40.TARGET.INTSRC) SHR.     00720000
ADD DDDEF(INTJCL)      DA (INFORM.R40.TARGET.INTJCL) SHR.     00730000
ADD DDDEF(INTPANEL)    DA (INFORM.R40.TARGET.INTPANEL) SHR.   00740000
ADD DDDEF(INTMSGSGS)   DA (INFORM.R40.TARGET.INTMSGSGS) SHR.  00750000
ADD DDDEF(INTSKELS)    DA (INFORM.R40.TARGET.INTSKELS) SHR.   00760000
ADD DDDEF(INTCLIST)    DA (INFORM.R40.TARGET.INTCLIST) SHR.   00770000
ADD DDDEF(INDLOAD)     DA (INFORM.R40.DISTRIB.INDLOAD) SHR.   00780000
ADD DDDEF(INDMAC)      DA (INFORM.R40.DISTRIB.INDMAC) SHR.    00790000
ADD DDDEF(INDSRC)      DA (INFORM.R40.DISTRIB.INDSRC) SHR.    00800000
ADD DDDEF(INDJCL)      DA (INFORM.R40.DISTRIB.INDJCL) SHR.    00810000
ADD DDDEF(INDPANEL)    DA (INFORM.R40.DISTRIB.INDPANEL) SHR.   00820000
ADD DDDEF(INDMSGSGS)   DA (INFORM.R40.DISTRIB.INDMSGSGS) SHR. 00830000
ADD DDDEF(INDSKELS)    DA (INFORM.R40.DISTRIB.INDSKELS) SHR.   00840000
ADD DDDEF(INDCLIST)    DA (INFORM.R40.DISTRIB.INDCLIST) SHR.   00850000
ADD DDDEF(SYSMAC)      DA (SYS1.MACLIB) SHR.                  00860000
ADD DDDEF(RESLIB)      DA (IMS.RESLIB) SHR.                   00870000
ADD DDDEF(CICSLIB)     DA (CICS.SDFHLOAD) SHR.                00880003
ADD DDDEF(DB2LOAD)     DA (DB2.SDSNLOAD) SHR.                  00890004
ADD DDDEF(SYSLIB)      CONCAT(SYSMAC RESLIB CICSLIB DB2LOAD). 00900004
ADD DDDEF(SMPOUT)      SYSOUT(*).                             00910000
ADD DDDEF(SMPFUNCH)    SYSOUT(*).                             00920000
ADD DDDEF(SMPRPT)      SYSOUT(*).                             00930000
ADD DDDEF(SMPLIST)     SYSOUT(*).                             00940000
ADD DDDEF(SMPFNSAP)    SYSOUT(*).                             00950000
ADD DDDEF(SYSPRINT)    SYSOUT(*).                             00960000
ADD DDDEF(SYSUDUMP)    SYSOUT(*).                             00970000
ADD DDDEF(SMPTLIB)     UNIT(SYSDA).                            00980000
ADD DDDEF(SMPWRK1)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 00990000
ADD DDDEF(SMPWRK2)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01000000
ADD DDDEF(SMPWRK3)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01010000
ADD DDDEF(SMPWRK4)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01020000
ADD DDDEF(SMPWRK6)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01030000
ADD DDDEF(SYSUT1)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.  01040000
ADD DDDEF(SYSUT2)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.  01050000
ADD DDDEF(SYSUT3)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.  01060000
ADD DDDEF(SYSUT4)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.  01070000
ENDUCL.                01080000
SET BDY(IN40CTZ). /* DEFINE TARGET ZONE ENTRIES */           01090001
UCLIN.                 01100000
ADD DDDEF(SMPSCDS)     DA (INFORM.R40.SMPSCDS) OLD.          01110000
RELATED(IN40CDZ) OPTIONS(IN40COP).                            01120000
ADD DDDEF(SMPMTS)      DA (INFORM.R40.SMPMTS) OLD.          01130000
ADD DDDEF(SMPPTS)      DA (INFORM.R40.SMPPTS) SHR.          01140000
ADD DDDEF(SMPSTS)      DA (INFORM.R40.SMPSTS) OLD.          01150000
ADD DDDEF(SMPLOG)      DA (INFORM.R40.SMPLOG) MOD.          01160000
ADD DDDEF(SMPLOGA)     DA (INFORM.R40.SMPLOGA) MOD.          01170000
ADD DDDEF(INDLOAD)     DA (INFORM.R40.DISTRIB.INDLOAD) SHR.   01180000
ADD DDDEF(INDMAC)      DA (INFORM.R40.DISTRIB.INDMAC) SHR.    01190000
ADD DDDEF(INDSRC)      DA (INFORM.R40.DISTRIB.INDSRC) SHR.    01200000
ADD DDDEF(INDJCL)      DA (INFORM.R40.DISTRIB.INDJCL) SHR.    01210000
ADD DDDEF(INDPANEL)    DA (INFORM.R40.DISTRIB.INDPANEL) SHR.   01220008
ADD DDDEF(INDMSGSGS)   DA (INFORM.R40.DISTRIB.INDMSGSGS) SHR. 01230000
ADD DDDEF(INDSKELS)    DA (INFORM.R40.DISTRIB.INDSKELS) SHR.   01240000
ADD DDDEF(INDCLIST)    DA (INFORM.R40.DISTRIB.INDCLIST) SHR.   01250000
ADD DDDEF(INTLOAD)     DA (INFORM.R40.TARGET.INTLOAD) SHR.    01260000
ADD DDDEF(INTMAC)      DA (INFORM.R40.TARGET.INTMAC) SHR.     01270000
ADD DDDEF(INTSRC)      DA (INFORM.R40.TARGET.INTSRC) SHR.     01280000
ADD DDDEF(INTJCL)      DA (INFORM.R40.TARGET.INTJCL) SHR.     01290000
ADD DDDEF(INTPANEL)    DA (INFORM.R40.TARGET.INTPANEL) SHR.    01300000
ADD DDDEF(INTMSGSGS)   DA (INFORM.R40.TARGET.INTMSGSGS) SHR.   01310000
ADD DDDEF(INTSKELS)    DA (INFORM.R40.TARGET.INTSKELS) SHR.    01320000
ADD DDDEF(INTCLIST)    DA (INFORM.R40.TARGET.INTCLIST) SHR.    01330000
ADD DDDEF(SYSMAC)      DA (SYS1.MACLIB) SHR.                  01340000
ADD DDDEF(SYSMAC)      DA (SYS1.MACLIB) SHR.                  01350000

```

Figure E-6 SMPJOB02 (Page 2 of 3)

```
ADD DDDEF(RESLIB)      DA (IMS.RESLIB) SHR.                01360000
ADD DDDEF(CICSLIB)     DA (CICS.SDFHLOAD) SHR.            01370003
ADD DDDEF(DB2LOAD)     DA (DB2.SDSNLOAD) SHR.             01380004
ADD DDDEF(SYSLIB)      CONCAT(SYSMAC RESLIB CICSLIB DB2LOAD). 01390004
ADD DDDEF(SMPOUT)      SYSOUT(*).                        01400000
ADD DDDEF(SMPPUNCH)    SYSOUT(*).                        01410000
ADD DDDEF(SMPRPT)      SYSOUT(*).                        01420000
ADD DDDEF(SMPLIST)     SYSOUT(*).                        01430000
ADD DDDEF(SMP SNAP)    SYSOUT(*).                        01440000
ADD DDDEF(SYSPRINT)    SYSOUT(*).                        01450000
ADD DDDEF(SYSUDUMP)    SYSOUT(*).                        01460000
ADD DDDEF(SMPTLIB)     UNIT(SYSDA).                       01470000
ADD DDDEF(SMPWRK1)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01480000
ADD DDDEF(SMPWRK2)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01490000
ADD DDDEF(SMPWRK3)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01500000
ADD DDDEF(SMPWRK4)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01510000
ADD DDDEF(SMPWRK6)     UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE. 01520000
ADD DDDEF(SYSUT1)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE. 01530000
ADD DDDEF(SYSUT2)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE. 01540000
ADD DDDEF(SYSUT3)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE. 01550000
ADD DDDEF(SYSUT4)      UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE. 01560000
ENDUCL.               01570000
```

Figure E-6 SMPJOB02 (Page 3 of 3)

SMPJOB03

```

/* MEMBER SMPJOB03                                00010005
/******                                00020001
/* THIS JOB RECEIVES THE MODIFICATION CONTROL STATEMENTS (MCS) AND * 00030001
/* THE ELEMENTS (SYSMODS) INTO THE GLOBAL ZONE/DATA SETS. * 00040001
/******                                00050001
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A * 00060008
/* GLOBAL CHANGE COMMAND. * 00070007
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00080007
/* * 00090007
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00100007
/* 2) CHANGE THE HIGH LEVEL DSN OF 'INFORM.' OR 'INFORM.R40.' TO * 00110007
/* THE HIGH LEVEL DSN USED PREVIOUSLY IN THE INSTALLATION * 00120007
/* (SMPJOB01 AND SMPJOB02). * 00130007
/******                                00140002
//RECEIVE EXEC PGM=GIMSMP,REGION=4M 00150001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR 00160006
//SMPPTFIN DD DSN=INFORM.R40.SMPCNTL(MCSHDR),DISP=SHR 00170005
// DD DSN=INFORM.R40.SMPCNTL(MCSINF),DISP=SHR 00180005
// DD DSN=INFORM.R40.SMPCNTL(MCSBLDR),DISP=SHR 00190005
// DD DSN=INFORM.R40.SMPCNTL(MCSCOML),DISP=SHR 00200005
// DD DSN=INFORM.R40.SMPCNTL(MCSWKB),DISP=SHR 00210005
// DD DSN=INFORM.R40.SMPCNTL(MCSSASC),DISP=SHR 00220005
//SMPCNTL DD * 00230001
SET BDY(GLOBAL). 00240001
RECEIVE SYSMODS LIST. 00250001
LIST. 00260001

```

Figure E-7 SMPJOB03

SMPJOB04

```

/* MEMBER SMPJOB04                                00010002
/******                                00020000
/* RECEIVE THE PTF AND APAR SYSMODS INTO THE GLOBAL ZONE/DATA SETS. * 00030001
/******                                00040000
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A * 00050008
/* GLOBAL CHANGE COMMAND. * 00060005
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00070005
/* * 00080005
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00090005
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00100005
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT * 00110006
/* RECOMMENDED THAT THE LOW LEVEL DSNs BE CHANGED. * 00120006
/******                                00130002
//RECPTF EXEC PGM=GIMSMP,REGION=4M                                00140001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR                                00150001
//SMPPTFIN DD DSN=INFORM.R40.SMPCNTL(PTFS),DISP=SHR                                00160002
// DD DSN=INFORM.R40.SMPCNTL(APARS),DISP=SHR                                00170002
//SMPCNTL DD *                                00180001
SET BDY(GLOBAL).                                00190000
RECEIVE SYSMODS LIST.                                00200000
LIST.                                00210000

```

Figure E-8 SMPJOB04

SMPJOB05

```

/* MEMBER SMPJOB05                                00010004
/******                                00020001
/* APPLY THE ELEMENTS (MODULES) INTO THE TARGET ZONE/LIBRARIES.      * 00030002
/******                                00040001
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A  * 00050008
/* GLOBAL CHANGE COMMAND.                                           * 00060007
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES:                * 00070007
/*                                                                    * 00080007
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT.                            * 00090007
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO  * 00100007
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT     * 00110007
/* RECOMMENDED THAT THE LOW LEVEL DSNS BE CHANGED.                 * 00120007
/******                                00130002
//APPLY EXEC PGM=GIMSMP,REGION=4M                                00140001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR                          00150001
//IJCLIN DD DSN=INFORM.R40.SMPCNTL,DISP=SHR                      00160006
//INFLOAD DD DSN=INFORM.R40.INFLOAD,DISP=SHR                     00170001
//INFMAC DD DSN=INFORM.R40.INFMAC,DISP=SHR                       00180001
//INFSRC DD DSN=INFORM.R40.INFSRC,DISP=SHR                       00190001
//INFJCL DD DSN=INFORM.R40.INFJCL,DISP=SHR                       00200001
//INFCLIST DD DSN=INFORM.R40.INFCLIST,DISP=SHR                   00210001
//INFPPANEL DD DSN=INFORM.R40.INFPANEL,DISP=SHR                  00220001
//INFMSGSGS DD DSN=INFORM.R40.INFMSGSGS,DISP=SHR                 00230001
//INFSKELS DD DSN=INFORM.R40.INFSKELS,DISP=SHR                   00240001
//SMPCNTL DD *                                                    00250001
SET BDY(IN40CTZ) .                                              00260001
APPLY SELECT(CDAC400) .                                         00270001
LIST.                                                            00280001

```

Figure E-9 SMPJOB05

SMPJOB06

```

/* MEMBER SMPJOB06                                00010001
/******                                           00020000
/* APPLY THE APARS/PTFS INTO THE TARGET ZONE/LIBRARIES USING AN * 00030005
/* IN-STREAM PROCEDURE EXECUTED ONCE PER APAR/PTF.          * 00040005
/******                                           00050002
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES:        * 00060005
/******                                           00070005
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT.                   * 00080005
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00090005
/*     THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT * 00100005
/*     RECOMMENDED THAT THE LOW LEVEL DSN BE CHANGED.        * 00110005
/* 3) CHANGE THE "APPLY SELECT(NNNNNNN)" TO NAME THE APAR/PTF THAT * 00120005
/*     IS TO BE APPLIED. CHANGE ONLY THE 'NNNNNNN' PORTION OF THE * 00130004
/*     STATEMENT.                                              * 00140004
/* 4) APPLY APARS/PTFS ONE AT A TIME, SPECIFYING ONLY ONE ITEM ON * 00150005
/*     EACH INVOCATION OF THE PROCEDURE.                     * 00160005
/******                                           00170005
/* THIS JOB IS MEANT TO BE USED IN TWO WAYS:                * 00180005
/******                                           00190005
/*     1) DURING THE INSTALLATION PROCESS, TO APPLY THE INITIAL PTFS * 00200007
/*         AND APARS THAT ARE DELIVERED WITH THE SYSTEM.      * 00210007
/*     2) AFTER PRODUCT INSTALLATION, TO APPLY MAINTENANCE TO THE * 00220005
/*         PRODUCT WHEN NECESSARY.                             * 00230005
/******                                           00240005
/* WHEN RUNNING THIS JOB DURING PRODUCT INSTALLATION, YOU MUST USE * 00250007
/* THE OUTPUT OF THE SMP/E "LIST" FUNCTION FROM SMPJOB04 TO    * 00260007
/* DETERMINE THE NAMES OF THE PTFS AND APARS YOU NEED TO APPLY. * 00270007
/* REMEMBER THAT APARS ARE OPTIONAL, BUT ALL THE PTFS THAT WERE * 00280007
/* RECEIVED IN SMPJOB04 MUST BE APPLIED. PTFS AND APARS MUST BE * 00290007
/* APPLIED IN ASCENDING SEQUENCE BY NAME.                    * 00300007
/******                                           00310007
/* THIS SAMPLE JCL CONTAINS A SINGLE EXECUTION OF AN IN-STREAM * 00320007
/* PROCEDURE TO APPLY PTFS AND APARS. ADD ADDITIONAL STEPS FOR EACH * 00330007
/* PTF AND APAR TO BE APPLIED, AS FOLLOWS:                 * 00340007
/******                                           00350005
/*             //STEP2 EXEC APPLY                          * 00360005
/*             //SMPCNTL DD *                               * 00370005
/*             SET BDY(IN40CTZ).                             * 00380006
/*             APPLY SELECT(NNNNNNN).                        * 00390007
/******                                           00400005
//APPLY  PROC                                           00410005
//APPLY1 EXEC PGM=GIMSMP,REGION=4M                      00420001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR                 00430001
//      PEND                                           00440001
//STEP1  EXEC APPLY                                     00450001
//SMPCNTL DD *                                           00460001
//      SET BDY(IN40CTZ).                                00470001
//      APPLY SELECT(NNNNNNN).                           00480002

```

Figure E-10 SMPJOB06

SMPJOB07

```

/* MEMBER SMPJOB07                                00010003
/******                                00020001
/* ACCEPT THE ELEMENTS INTO THE DISTRIBUTION ZONE/LIBRARIES.      * 00030001
/******                                00040001
/* ALL CHANGES NECESSARY TO RUN THIS JOB MAY BE SAFELY MADE WITH A * 00050007
/* GLOBAL CHANGE COMMAND.                                          * 00060006
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES:              * 00070006
/*                                                                * 00080006
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT.                          * 00090006
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00100006
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT    * 00110006
/* RECOMMENDED THAT THE LOW LEVEL DSNS BE CHANGED.                * 00120006
/******                                00130001
//ACCEPT EXEC PGM=GIMSMP,REGION=4M                                00140001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR                          00150002
//IJCLIN DD DSN=INFORM.R40.SMPCNTL,DISP=SHR                      00160005
//INFLOAD DD DSN=INFORM.R40.INFLOAD,DISP=SHR                    00170001
//INFMAC DD DSN=INFORM.R40.INFMAC,DISP=SHR                      00180001
//INFSRC DD DSN=INFORM.R40.INFSRC,DISP=SHR                      00190001
//INFJCL DD DSN=INFORM.R40.INFJCL,DISP=SHR                      00200001
//INFCLIST DD DSN=INFORM.R40.INFCLIST,DISP=SHR                  00210001
//INFPPANEL DD DSN=INFORM.R40.INFPANEL,DISP=SHR                 00220001
//INFMSGGS DD DSN=INFORM.R40.INFMSGGS,DISP=SHR                  00230001
//INFSKELS DD DSN=INFORM.R40.INFSKELS,DISP=SHR                  00240001
//SMPCNTL DD *                                                    00250001
SET BDY(IN40CDZ).                                                00260001
ACCEPT SELECT(CDAC400).                                          00270002
LIST.                                                            00280001

```

Figure E-11 SMPJOB07

SMPJOB08

```

/* MEMBER SMPJOB08                                00010001
/******                                           00020005
/* ACCEPT THE APARS/PTFS INTO THE DISTRIBUTION ZONE/LIBRARIES USING * 00030007
/* AN IN-STREAM PROCEDURE EXECUTED ONCE PER APAR/PTF. * 00040007
/******                                           00050005
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00060005
/* * 00070005
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00080005
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00090005
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT * 00100005
/* RECOMMENDED THAT THE LOW LEVEL DSN BE CHANGED. * 00110005
/* 3) CHANGE THE "ACCEPT SELECT(NNNNNNN)" TO NAME THE APAR/PTF THAT * 00120005
/* IS TO BE ACCEPTED. CHANGE ONLY THE 'NNNNNNN' PORTION OF THE * 00130005
/* STATEMENT. * 00140005
/* 4) ACCEPT APARS/PTFS ONE AT A TIME, SPECIFYING ONLY ONE ITEM ON * 00150005
/* EACH INVOCATION OF THE PROCEDURE. * 00160005
/******                                           00170005
/* THIS JOB IS MEANT TO BE USED IN TWO WAYS: * 00180005
/* * 00190005
/* 1) DURING THE INSTALLATION PROCESS, TO ACCEPT THE INITIAL PTFS * 00200007
/* AND APARS THAT ARE DELIVERED WITH THE SYSTEM. * 00210007
/* 2) AFTER PRODUCT INSTALLATION, TO ACCEPT MAINTENANCE TO THE * 00220007
/* PRODUCT WHEN NECESSARY. * 00230007
/* * 00240007
/* WHEN RUNNING THIS JOB DURING PRODUCT INSTALLATION, YOU SHOULD * 00250007
/* REFER TO THE LIST OF PTFS AND APARS THAT YOU USED TO APPLY THE * 00260007
/* MAINTENANCE IN SMPJOB06. USE THE SAME MEMBER LIST TO SPECIFY THE * 00270007
/* PTFS AND APARS TO BE ACCEPTED. PTFS AND APARS MUST BE ACCEPTED * 00280008
/* IN ASCENDING SEQUENCE BY NAME. * 00290008
/* * 00300007
/* THIS SAMPLE JCL CONTAINS A SINGLE EXECUTION OF AN IN-STREAM * 00310007
/* PROCEDURE TO ACCEPT PTFS AND APARS. ADD ADDITIONAL STEPS FOR * 00320008
/* EACH PTF AND APAR TO BE ACCEPTED, AS FOLLOWS: * 00330008
/* * 00340007
/*          //STEP2 EXEC ACCEPT * 00350005
/*          //SMPCNTL DD * * 00360005
/*          SET BDY(IN40CDZ) . * 00370006
/*          ACCEPT SELECT(NNNNNNN) . * 00380008
/******                                           00390005
//ACCEPT PROC 00400001
//ACCEPT1 EXEC PGM=GIMSMP,REGION=4M 00410001
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR 00420001
// PEND 00430000
//STEP1 EXEC ACCEPT 00440001
//SMPCNTL DD * 00450000
// SET BDY(IN40CDZ) . 00460001
// ACCEPT SELECT(NNNNNNN) . 00470001

```

Figure E-12 SMPJOB08

SMPREJCT

```

/* MEMBER SMPREJCT                                00010000
/******                                00020000
/* A MODEL TO REJECT (REMOVE) APAR/PTF SYSMODS FROM THE GLOBAL ZONE * 00030002
/* DATA SETS USING AN INSTREAM PROCEDURE. * 00040001
/******                                00050000
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00060002
/* * 00070002
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00080002
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00090002
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT * 00100002
/* RECOMMENDED THAT THE LOW LEVEL DSN BE CHANGED. * 00110002
/* 3) CHANGE THE "REJECT SELECT(NNNNNNN)" TO NAME THE APAR/PTF THAT * 00120002
/* IS TO BE REJECTED. CHANGE ONLY THE 'NNNNNNN' PORTION OF THE * 00130000
/* STATEMENT. * 00140000
/* 4) TO REJECT MORE THAN ONE APAR/PTF AT A TIME, SPECIFY A LIST IN * 00150002
/* THE "SELECT" OPERAND, SUCH AS: * 00160001
/* REJECT SELECT(1111111, 2222222). * 00170001
/******                                00180000
//REJECT PROC                                00190000
//REJECT1 EXEC PGM=GIMSMP,REGION=4M                                00200000
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR                                00210000
// PENDING                                00220000
//STEP1 EXEC REJECT                                00230000
//SMPCNTL DD *                                00240000
// SET BDY(GLOBAL) .                                00250000
// REJECT SELECT(NNNNNNN) .                                00260000

```

Figure E-13 SMPREJCT

SMPREMOV

```

/* MEMBER SMPREMOV                                00010000
/******                                           00020000
/* A MODEL TO RESTORE (REMOVE) APAR/PTF SYSMODS FROM THE TARGET ZONE * 00030004
/* AND LIBRARIES USING AN INSTREAM PROCEDURE. * 00040003
/******                                           00050000
/* TAILOR THIS JCL BY MAKING THE FOLLOWING CHANGES: * 00060004
/* * 00070004
/* 1) SUPPLY A VALID "JOB" JCL STATEMENT. * 00080004
/* 2) CHANGE THE HIGH LEVEL DSN FROM 'INFORM.' OR 'INFORM.R40.' TO * 00090004
/* THE HIGH LEVEL DSN USED DURING THIS INSTALLATION. IT IS NOT * 00100004
/* RECOMMENDED THAT THE LOW LEVEL DSN BE CHANGED. * 00110004
/* 3) CHANGE THE "RESTORE SELECT(NNNNNNN)" TO NAME THE APAR/PTF THAT * 00120004
/* IS TO BE REMOVED. CHANGE ONLY THE 'NNNNNNN' PORTION OF THE * 00130001
/* STATEMENT. * 00140001
/* 4) TO REMOVE MORE THAN ONE APAR/PTF AT A TIME, SPECIFY A LIST IN * 00150004
/* THE "SELECT" OPERAND, SUCH AS: * 00160003
/* RESTORE SELECT(1111111, 2222222). * 00170003
/******                                           00180000
//RESTORE PROC                                00190000
//REST EXEC PGM=GIMSMP,REGION=4M                00200000
//SMPCSI DD DSN=INFORM.R40.CSI,DISP=SHR          00210000
// PEND                                          00220000
//STEP1 EXEC RESTORE                            00230000
//SMPCNTL DD *                                  00240000
SET BDY(IN40CTZ).                                00250000
RESTORE SELECT(NNNNNNN).                          00260000

```

Figure E-14 SMPREMOV

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