

Advantage™ VISION:Results™ for z/OS

Installation Guide

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Chapter 1: Introduction

Advantage™ VISION:Results™ for z/OS is an information management and report generator tool with an easy-to-use, English-like programming language that makes it convenient to enter statements at terminals. VISION:Results offers these key features:

- Multiple file and database-type support
- Use of existing data definitions
- Extensive data selection, analysis, and handling capabilities

VISION:Results supports all IBM file structures and access methods, and is available for z/OS and VSE/ESA operating systems.

VISION:Results provides both programmers and non-programmers with the capability to program data processing tasks in a fraction of the time that it would take to employ traditional programming languages such as COBOL or PL/I.

Although VISION:Results has the power and flexibility of a full-function language, it is a supplementary tool and should not replace an installation's standard programming language.

Note: Advantage VISION:Results will be referred to as VISION:Results throughout this guide.

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 guide assumes a working knowledge of the SMP/E facility and its processes.

This guide provides basic standalone SMP/E install and maintenance instructions. For the knowledgeable SMP/E user, there is enough information provided in this guide, and the generated JCL and control statements, to allow integration with any site-specific SMP/E standards. For the SMP/E novice, this guide should provide enough of the basic information and concepts you need to complete the basic SMP/E installation process.

Contacting CA Technical Support

For online technical assistance and a complete list of locations, primary service hours, and telephone numbers, contact Technical Support at <http://ca.com/support>.

Chapter 2: Installation Considerations

To successfully install VISION:Results, you first need to consider a number of installation requirements and review the installation procedures. This information is summarized in the table below and discussed in detail in the sections that follow.

Section and Page	Summary of Information
System Requirements on page 10	Reviews the requirements for system storage, library size, and environment.
Licensing Requirements on page 10	Ensures that you have the correct licensing key for your system.
Coding and Integrating Your Licensing Key on page 11	Describes how to obtain your CA Licensing Key information, and how to code and integrate it into the License Management Program (LMP) facility.
Overview of System Tape Contents on page 13	Provides an overview of the system tape contents and the process for transferring the system tape files to disk data sets. For more detailed instructions, see Chapter 3: Installing VISION:Results .
Introduction to SMP/E and Production Library Setup on page 14	Introduces you to the procedure for installing and setting up the SMP/E indirect, target, and distribution libraries. For more detailed instructions, see Chapter 3: Installing VISION:Results .
Overview of VISION:Results Customization on page 15	VISION:Results can be customized to meet your own needs. For more detailed instructions, see Task 4B. Customize the Compile and Run Time Parameters in DYLINSTL Macro (Optional) on page 45 .
Overview of VISION:Results Maintenance	VISION:Results maintenance procedures are discussed in Chapter 4: Performing Maintenance and Support .

System Requirements

Before attempting to complete any of the installation steps for the VISION:Results products, the environment must meet the following system requirements.

Library Size Requirements

VISION:Results requires approximately 400 tracks on a 3390 device.

Environmental Requirements

- VISION:Results supports only those releases of z/OS that are supported by IBM.
- VISION:Results runs on any standard processor supported by z/OS.
- A supported IBM Language Environment (LE) level is required to utilize CSV, XML, and HTML functions.
- One magnetic tape drive is required to install the product.

z/OS SMP/E Facility

VISION:Results is installed, maintained, and managed by the z/OS System Modification Program/Extended (SMP/E) facility as provided by IBM.

Licensing Requirements

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

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.

License Management Program

VISION:Results interfaces with the CA Licensing System using the CA Common Services™ CAIRIM and its CA-LMP facility, which is used to track licensed software. You must have an LMP licensing key for each CA solution you want to install and use. CA-LMP is required for VISION:Results to initialize properly.

If you do not have the LMP key you need, you can obtain it from your CA Account Manager. Be sure to name the specific solutions for which you need an LMP key.

For more information regarding the CA Common Services CAIRIM and its CA-LMP facility, see the *CA Common Services for z/OS Administrator Guide*.

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

Coding and Integrating Your Licensing Key

Before installing VISION:Results, you need to code and integrate your CA Licensing Key information into the CAIRIM CA-LMP facility. This is a standard function for all CA software products.

At the OPTLIB DD statement, enter the information that is provided on the key certificate into the KEYS member in the CAIRIM parameter data set. The CA-LMP key certificate you received with VISION:Results contains the following information:

Field	Description
Product Name	The trademarked or register product name as licensed for the designated site and the CPUs.
Product Code	A two-character code for VISION:Results and a two-character code for Advantage™ VISION:Sixty™.
Supplement	The reference number of your license for VISION:Results, in the format nnnnnn – nnn.
CPU ID	The code identifying the specific CPU on which VISION:Results is to be installed.
Execution Key	An encrypted code required by CA-LMP for VISION:Results initialization. This is also referred to as the LMP key.
Expiration Date	The date (ddmmyy) your license for VISION:Results expires.
Technical Contact	The name of the technical contact at your site who is responsible for installing and maintaining the licensed copy of VISION:Results. This is the person to whom CA 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 name when you correct and verify the certificate.
CPU Location	The address of the building in which the CPU 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:Results 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(ddmmyy) CPU(tttt-mmmm/sssss) LMPCODE(kkkkkkkkkkkkkk)
```

Parameter	Description
pp	Required. The two-character product code for VISION:Results. 2N VISION:Results engine and components 20 VISION:Sixty engine and components
ddmmyy	The CA-LMP licensing agreement expiration date (for example, 15JAN05).
tttt-mmmm	Required. The CPU type and model (for example, 2064-IC7) on which the product is to run. If the CPU type and/or model are less than four characters, insert blank spaces for the unused characters.
sssss	Required. The serial number of the CPU on which the product is to run.
kkkkkkkkkkkkkk	Required. The execution key needed to run the product. 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(2N) DATE(31JAN07) CPU(2064-1C7/007204) LMPCODE(6U105P96G6CGX690)
```

For more information about defining the CA-LMP execution keys using the CAIRIM parameters, see the *CA Common Services for z/OS Administrator Guide*.

Overview of System Tape Contents

VISION:Results is distributed on a cartridge tape. 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 tape contains six separate files, as described below. The first file on the system tape contains JCL for a job that transfers all the remaining system tape files to disk data sets. After the system tape files are transferred to disk, you have all of the elements needed to prepare and complete the installation, customization, and maintenance processes.

File Name	File Number	Description
RESULTS.REL60 .INSTALL	1	VISION:Results installation job control language (JCL) procedure. The records in this file are fixed length, 80-byte records, blocked 10. For the contents of this file, see Chapter 3: Installing VISION:Results .
RESULTS.REL60 .TESTFILE	2	VISION:Results test data. The records in this file are fixed length, 352-byte records, blocked 15.
RESULTS.REL60 .LOAD	3	VISION:Results load modules. This file is an unloaded PDS created by the IBM utility IEBCOPY. When this file is restored to disk, a load library (RECFM=U, BLKSIZE=3072) is created.
RESULTS.REL60 .SOURCE	4	VISION:Results SOURCE/COPY members that provide certain functions of the system such as generating labels. These members are listed in Appendix D: Installation Copy and Source Members . This file is an unloaded PDS created by the IBM utility IEBCOPY.
RESULTS.REL60 .HTMLLIB	5	HTML template library, as an unloaded PDS.
RESULTS.REL60 .SMPELIB	6	SMPE library used by the SMP/E facility to build the target and distribution libraries.

File 1 on the system tape contains an installation JCL procedure for creating the VISION:Results system. The installation JCL procedure is referred to as the INSTALL JCL. This procedure transfers all the system tape files 2 through 6 to disk data sets. You need to tailor this JCL to your company standards and then submit it. The only JCL that needs to be prepared by the installer is an IEBGENER JCL to copy the contents of File 1 to a data set. This JCL is part of the first step of the installation process and is shown in [Chapter 3: Installing VISION:Results](#).

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

For more information, see [Chapter 3: Installing VISION:Results.](#)

Introduction to SMP/E and Production Library Setup

This portion of the installation process uses the JCL and control statements in the PDS from File 6 on the system tape, RESULTS.REL60.SMP.LIB. The purpose of running the six jobs (SMPJOB01, SMPJOB02, SMPJOB03, SMPJOB04, SMPJOB05, and SMPJOB06) is to define and allocate the following items:

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

The SMP/E setup has the following tasks:

- The elements from the indirect library (also called the installation library), unloaded from the VISION:Results system tape, are stored into the SMP/E work data sets using the RECEIVE operation.
- The SMP/E APPLY processing updates the target library based on the Modification Control Statements (MCS) and an SMPJCLIN job stream. Essentially, the elements from the SMP/E work data sets are transferred to the target library.
- The SMP/E ACCEPT processing updates the distribution library based on the MCS and a SMPJCLIN job stream. Basically, the elements from the SMP/E work data sets are transferred to the distribution library.
- The working copy of the SMP/E distribution library, referred to as the operational library, is then created. The operational library is used to customize the VISION:Results system and is the library from which program jobs will execute.

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, or APAR. If you are not satisfied with the tests, you can RESTORE the modified target elements to their previous state from the distribution library. If the modifications perform as expected, you permanently ACCEPT the modifications into your distribution library. There is no direct method for undoing modifications after the ACCEPT processing is run.

For more information, see [Chapter 3: Installing VISION:Results.](#)

Overview of VISION:Results Customization

With a software system as diverse as VISION:Results, there are several capabilities and facilities that may need some additional setup to operate according to each installation site's environment, standards, and preferences. These customization steps apply to each site and vary depending on how the software system and components are used at each site.

As your specific needs and requirements change, you may want to make additional adjustments. You can customize and set up your product at any time using the CUSTMJCL member to modify parameters in the DYLINSTL macro.

For more information, see [Task 4B. Customize the Compile and Run Time Parameters in DYLINSTL Macro \(Optional\) on page 45](#) and [Appendix A: DYLINSTL Macro](#).

Chapter 3: Installing VISION:Results

This chapter provides detailed instructions to step you through the process of installing and verifying the installation of VISION:Results.

Installation Checklist

This section provides you with an installation checklist that will help you perform each step of the installation process. This checklist summarizes the steps involved in the VISION:Results installation process.

- Carefully review this checklist and become familiar with each step before proceeding.
- Use this checklist to document and track your progress as you proceed with the actual VISION:Results installation.

Note: The underlined text steps (Step 1, Step 2, ...) in the checklist are hypertext links to the section by the same title. When you are reading this document online, click the underlined text to go to that section.

Step	Installation Tasks	(✓)
Step 1. Review the Installation Prerequisites	Summarizes the tasks that need to be performed before installing VISION:Results.	<input type="checkbox"/>
Step 2. Copy the Installation Tape Files	<ul style="list-style-type: none"> <li>■ Task 2A. Review Installation Tape Contents <input type="checkbox"/> <li>■ Task 2B. Copy the First File: Create an IEBGENER JCL job to copy installation tape file 1 to a data disk set. See Figure 1. <input type="checkbox"/> <li>■ Task 2C. Copy the Remaining Files: Allocate and load remaining disk files using the provided JCL that is included in installation tape file 1. See Figure 2. <input type="checkbox"/> <li>■ Task 2D. Verify the VISION:Results Data Sets <input type="checkbox"/> 	<input type="checkbox"/>
Step 3. Perform SMP/E Installation Steps	Tailor and run the six SMP/E jobs that are supplied.	<input type="checkbox"/>
Step 4. Set Up VISION:Results	<ul style="list-style-type: none"> <li>■ Task 4A. Customize the RESULTS JCL Procedure <input type="checkbox"/> <li>■ Task 4B. Customize the Compile and Run Time Parameters in DYLINSTL Macro (Optional) <input type="checkbox"/> <li>■ Task 4C. Verify the Installation <input type="checkbox"/> <li>■ Task 4D. Install a Non-IBM COPY Facility (Optional) <input type="checkbox"/> <li>■ Task 4E. Install the COPYDB2 Facility (Optional) <input type="checkbox"/> <li>■ Task 4F. Execute VISION:Sixty from VISION:Results (Optional) <input type="checkbox"/> <li>■ Task 4G. Connect VISION:Results Interface to DB2 (Optional) <input type="checkbox"/> <li>■ Task 4H. Connect VISION:Results Interface to CA-IDMS/DB (Optional) <input type="checkbox"/> <li>■ Task 4J. Run VISION:Results <input type="checkbox"/> 	<input type="checkbox"/>

Step 1. Review the Installation Prerequisites

The following is a review of the installation prerequisites introduced in the previous chapter. Before continuing, be sure that you have:

- Verified the system requirements.
- Confirmed licensing requirements.
- Coded and integrated your licensing key.
- Reviewed the installation materials and documentation to become familiar with the VISION:Results components. During this process, you should use this guide as well as *Advantage VISION:Results for z/OS Messages and Codes*.

Step 2. Copy the Installation Tape Files

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

Task 2A. Review Installation Tape Contents

Review the files on the installation tape, as listed here.

File	Contents	Tape Data Set Name
1	Installation JCL procedure	RESULTS.REL60.INSTALL
2	Sample test data file	RESULTS.REL60.TESTFILE
3	VISION:Results load library	RESULTS.REL60.LOAD
4	Source/Copy library	RESULTS.REL60.SOURCE
5	HTML Template library	RESULTS.REL60.HTMLLIB
6	SMPE library	RESULTS.REL60.SMPELIB

Task 2B. Copy the First File

The first file on the tape contains an installation JCL procedure for creating the VISION:Results system. Use the JCL shown in [Figure 1](#) to copy the first file from the tape to a sequential data set.

```
//*****
//*
//* THIS JOB WILL LOAD THE FIRST FILE ON THE INSTALLATION      *
//* TAPE FROM TAPE TO DISK. ADD JOB AND TAPE SETUP            *
//* STATEMENTS, INSERT THE TAPE VOLUME AS THE VOLSER,         *
//* AND THEN CHANGE ALL lowercase ENTRIES IN THE JOB TO      *
//* THE APPROPRIATE VALUES FOR YOUR INSTALLATION.           *
//*****
//*
//STEP01 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD UNIT=SYS3480R,DISP=OLD,VOL=SER=xxxxxx,
// LABEL=(1,SL),DSN=RESULTS.REL60.INSTALL,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//SYSUT2 DD DSN=YOUR.RESULTS.install.jcl,
// DISP=(,CATLG,DELETE),
// UNIT=SYSDA,SPACE=(TRK,(2,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//SYSIN DD DUMMY
```

Figure 1 Copying VISION:Results Installation JCL from Tape to Disk

Task 2C. Copy the Remaining Files

The JCL installation procedure, RESULTS.REL60.INSTALL is shown in [Figure 2](#). The JCL included in the installation procedure accomplishes the following tasks:

- STEP00 establishes the condition code to be tested in the next step.
- STEP01 scratches pre-existing files and libraries that will be created and cataloged by later steps in this JCL procedure. This step needs to be executed only if this job is being rerun. The condition code setting determines whether or not this step is executed. The default condition code testing is set to bypass the running of this job step.
- STEP02 copies the VISION:Results test data from tape to disk.
- STEP03 creates the VISION:Results Installation load library. Later, during SMP/E installation, this library is also referred to as the Indirect library.
- STEP04 creates the VISION:Results Installation source library.
- STEP05 creates the VISION:Results HTML Template library.
- STEP06 creates the VISION:Results SMP/E library.

Make the following changes to the default symbolic parameters in the JCL procedure before submitting it for execution.

1. Replace the first line of this file with the job statement necessary to run this job at your installation.
2. Change *SYSDA* in *CATDISK=SYSDA* and *TMPDISK=SYSDA* to the device class types you use, such as 3380, 3390, and so on (3390 was used to calculate DCB and SPACE parameters in the JCL). Assign *CATDISK* to a permanent storage volume, and *TMPDISK* to a temporary data set volume.

3. Change 999999 in DSKSER=999999 to the volume serial number for the disk you use.
4. Change SYS3480R in TAPEDR=SYS3480R to your installation standard device class name for cartridge tape.
5. Change XXXXXX in TAPESER=XXXXXX to the volume serial number of the installation tape. VISION:Results is distributed on a standard label tape.
6. Change YOUR.RESULTS.DEMOFILE to the data set name you will give the VISION:Results test data. DCB for this data set is DCB=(RECFM=FB,LRECL=352,BLKSIZE=5280).
7. Change YOUR.RESULTS.LOAD.LIBRARY to the name of the library that will be built to contain the VISION:Results installation load library or what SMP/E calls the indirect library.

WARNING! It is not to be modified after installation! This is the library that is the basis to create the SMP/E distribution and target libraries and the operational library, which is the library that will be used to run and customize VISION:Results. The installation JCL creates a new load library and assigns it the name you specify here. Therefore, do not specify a name that already exists.

8. Change YOUR.RESULTS.SOURCE.LIBRARY to the name of the installation source library into which you want to place the source code for the installation customizing parameters macro (DYLINSTL) and the record layout for the demo file. This library will be created by this JCL procedure.
9. Change YOUR.RESULTS.HTMLLIB to the name of the HTML template library that you will use with VISION:Results.
10. Change YOUR.RESULTS.SMPCNTL to the name of the SMP/E library that you will use with VISION:Results. The SMP/E setup and installation is expecting the lower-level DSN name to be SMPCNTL.

Note: We recommend changing YOUR.RESULTS to your installation standard high-level qualifier. If you decide to change the lower-level qualifier, SMPCNTL, to another name, then the same changes will be required for the SMP/E setup and installation jobs.

11. You are now ready to submit this job. If you encounter a problem or have any questions, contact Technical Support at <http://ca.com/support>.
12. To rerun this job, change SCRATCH=LE to SCRATCH=NE. This causes the files and libraries created by this JCL procedure to be scratched. The Installation JCL is shown in [Figure 2](#).

```

//* YOUR JOB CARD GOES HERE
//INSTALL PROC TMPDISK=SYSDA,
//          CATDISK=SYSDA,
//          DSKSER=999999,
//          SOUT='*',
//          TAPEDR=SYS3480R,
//          TAPESER=XXXXXX,
//          DEMOFIL='YOUR.RESULTS.DEMOFILE',           NEW
//          HTMLLIB='YOUR.RESULTS.HTMLLIB',           NEW
//          LOADLIB='YOUR.RESULTS.LOAD.LIBRARY',       NEW
//          SOURCLB='YOUR.RESULTS.SOURCE.LIBRARY',     NEW
//          SMPCLIB='YOUR.RESULTS.SMPCNTL',           NEW
//          SCRATCH=LE
//*
```

Figure 2 Installation JCL (Page 1 of 3)

```

//*****
//*
//* NOTE: THE FILES DESIGNATED AS 'NEW' ABOVE WILL BE CREATED BY
//* THIS JCL PROCEDURE.
//*
//* TO RE-RUN THIS JOB, CHANGE 'SCRATCH=LE' TO 'SCRATCH=NE'.
//* THIS WILL CAUSE THE FILES AND LIBRARIES CREATED BY THIS
//* JCL PROCEDURE TO BE SCRATCHED.
//*
//*****
//*
//STEP00 EXEC PGM=IEFBR14,REGION=0M SET THE CONDITION CODE.
//*
//STEP01 EXEC PGM=IEFBR14,COND=(0,&SCRATCH)
//DD1 DD DSN=&DEMOFIL,DISP=(MOD,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(1,1))
//DD2 DD DSN=&LOADLIB,DISP=(MOD,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(1,1))
//DD3 DD DSN=&SOURCLB,DISP=(MOD,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(1,1))
//DD4 DD DSN=&HTMLLIB,DISP=(MOD,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(1,1))
//DD5 DD DSN=&SMPELIB,DISP=(MOD,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(1,1))
//*
//STEP02 EXEC PGM=IEBGENER,REGION=0M
//* COPY THE RESULTS TEST DATA (DEMofile) FILE TO DISK
//SYSPRINT DD SYSOUT=&SOUT
//SYSUT1 DD UNIT=&TAPEDR,VOL=(,RETAIN,SER=&TAPESER.),
// DCB=(RECFM=FB,LRECL=352,BLKSIZE=5280),
// DSN=RESULTS.REL60.TESTFILE,
// LABEL=(2,SL),DISP=OLD
//SYSUT2 DD DSN=&DEMOFIL,DISP=(,CATLG,DELETE),
// UNIT=&CATDISK,SPACE=(TRK,(3,2),RLSE),VOL=SER=&DSKSER,
// DCB=(RECFM=FB,LRECL=352,BLKSIZE=5280)
//SYSIN DD DUMMY
//*
//STEP03 EXEC PGM=IEBCOPY,REGION=0M
//* COPY THE LOAD LIBRARY TO A PERMANENT LIBRARY
//SYSPRINT DD SYSOUT=&SOUT
//DDIN1 DD UNIT=&TAPEDR,VOL=(,RETAIN,REF=*.STEP02.SYSUT1),
// DSN=RESULTS.REL60.LOAD,
// DISP=OLD,LABEL=(3,SL)
//DDOUT1 DD UNIT=&CATDISK,VOL=SER=&DSKSER,DISP=(NEW,CATLG,DELETE),
// SPACE=(TRK,(110,40,50)),
// DSN=&LOADLIB
//SYSUT3 DD UNIT=&TMPDISK,SPACE=(TRK,(30))
//SYSUT4 DD UNIT=&TMPDISK,SPACE=(TRK,(30))
//*
//STEP04 EXEC PGM=IEBCOPY,REGION=0M
//* COPY THE SOURCE LIBRARY TO A PERMANENT LIBRARY
//SYSPRINT DD SYSOUT=&SOUT
//DDIN2 DD UNIT=&TAPEDR,VOL=(,RETAIN,REF=*.STEP02.SYSUT1),
// DSN=RESULTS.REL60.SOURCE,
// DISP=OLD,LABEL=(4,SL)
//DDOUT2 DD UNIT=&CATDISK,VOL=SER=&DSKSER,DISP=(NEW,CATLG,DELETE),
// SPACE=(TRK,(20,2,5)),
// DSN=&SOURCLB
//SYSUT3 DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//SYSUT4 DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//*
//STEP05 EXEC PGM=IEBCOPY,REGION=0M
//* COPY THE HTML TEMPLATE LIBRARY TO A PERMANENT LIBRARY
//SYSPRINT DD SYSOUT=&SOUT
//DDIN3 DD UNIT=&TAPEDR,VOL=(,RETAIN,REF=*.STEP02.SYSUT1),
// DSN=RESULTS.REL60.HTMLLIB,
// DISP=OLD,LABEL=(5,SL)
//DDOUT3 DD UNIT=&CATDISK,VOL=SER=&DSKSER,DISP=(NEW,CATLG,DELETE),
// SPACE=(TRK,(2,2,5)),
// DSN=&HTMLLIB
//SYSUT3 DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//SYSUT4 DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//*
//STEP06 EXEC PGM=IEBCOPY,REGION=0M
//* COPY THE SMPE LIBRARY TO A PERMANENT LIBRARY
//SYSPRINT DD SYSOUT=&SOUT
//DDIN4 DD UNIT=&TAPEDR,VOL=(,RETAIN,REF=*.STEP02.SYSUT1),

```

Figure 2 Installation JCL (Page 2 of 3)

```

//          DSN=RESULTS.REL60.SMPELIB,
//          DISP=OLD,LABEL=(6,SL)
//DDOUT4   DD UNIT=&CATDISK,VOL=SER=&DSKSER,DISP=(NEW,CATLG,DELETE),
//          SPACE=(TRK,(10,2,5)),
//          DSN=&SMPELIB
//SYSUT3   DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//SYSUT4   DD UNIT=&TMPDISK,SPACE=(TRK,(20))
//*
//          PEND
//*
//STEP1    EXEC INSTALL
//STEP03.SYSIN DD *
//          COPY OUTDD=DDOUT1,INDD=(DDIN1,R)
//*
//STEP04.SYSIN DD *
//          COPY OUTDD=DDOUT2,INDD=(DDIN2,R)
//*
//STEP05.SYSIN DD *
//          COPY OUTDD=DDOUT3,INDD=(DDIN3,R)
//*
//STEP06.SYSIN DD *
//          COPY OUTDD=DDOUT4,INDD=(DDIN4,R)
//*
//

```

Figure 2 Installation JCL (Page 3 of 3)

Task 2D. Verify the VISION:Results Data Sets

When you finish copying the tape, verify that you have created the following data sets.

Note: The disk data set names assigned to the unloaded system tape files and shown in this table are used throughout the installation process instructions and in all the JCL examples.

DSN	No. of 3390 Tracks	DCB Information	Tape File No.
YOUR.RESULTS.DEMOFILE	2	(FB 352 5280 DSORG=PS)	2
YOUR.RESULTS.LOAD.LIBRARY	110	(U 0 3072 DSORG=PO)	3
YOUR.RESULTS.SOURCE.LIBRARY	20	(FB 80 27920 DSORG=PO)	4
YOUR.RESULTS.HTMLLIB	2	(FB 80 27920 DSORG=PO)	5
YOUR.RESULTS.SMPCNTL	10	(FB 80 27920 DSORG=PO)	6

Step 3. Perform SMP/E Installation Steps

In this step, you run six job streams to establish and define the SMP/E CSI and zones, and install the basic VISION:Results libraries. These libraries consist of the SMP/E distribution library, the SMP/E target library, and the VISION:Results operational library. These job streams are located in the following members of the YOUR.RESULTS.SMPCNTL PDS data set loaded from File 6 of the installation tape, RESULTS.REL60.SMPELIB.

Member Name	Function
SMPJOB01	Allocates the SMP/E CSI, the SMP/E work data sets, and all the associated data sets for the distribution and target libraries.
SMPJOB02	Defines the SMP/E global, distribution, and target zones.
SMPJOB03	Receives the MCS (Modification Control Statements) and SYSMODs into the SMP/E global zone and work data sets.
SMPJOB04	Applies the SYSMODS (modules and elements) to the SMP/E target zone.
SMPJOB05	Accepts the SYSMODS (modules and elements) to the SMP/E distribution zone.
SMPJOB06	Defines the VISION:Results operational library and copies the contents of the SMP/E distribution library into the operational library.

The following members in the YOUR.RESULTS.SMPCNTL PDS data set are referenced within the above jobs as control statements.

Member Name	Function
CDES600	The JCLIN (IEBCOPYs) for the distribution and target load libraries.
SMPMCS0	MCS statements—the VISION:Results software system function.
SMPMCS1	MCS statements—the VISION:Results engine elements.

SMPJOB01

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

To tailor this job:

1. Supply a valid JOB JCL statement.
2. 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.
3. Change the high-level qualifiers of all data sets from the default of YOUR.RESULTS to one that meets your site standards. Do not change the low-level portion of the DSNs.
4. Change the unit allocation from the default UNIT=SYSDA to your site standards.

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

- YOUR.RESULTS.RESDLIB
- YOUR.RESULTS.RESTLIB
- YOUR.RESULTS.SMPMTS
- YOUR.RESULTS.SMPSCDS
- YOUR.RESULTS.SMPSTS
- YOUR.RESULTS.SMPLOG
- YOUR.RESULTS.SMPLOGA
- YOUR.RESULTS.SMPPTS
- YOUR.RESULTS.CSI
- YOUR.RESULTS.CSI.INDEX
- YOUR.RESULTS.CSI.DATA

The SMPJOB01 job is shown in [Figure 3](#).

```

//          JOB ...
// *
// * MEMBER SMPJOB01
// *****
// *
// * ALLOCATE ALL VISION:RESULTS SMP/E DATASETS AND INITIALIZE THE CSI
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET COMMAND PARAMETERS BELOW TO REFLECT YOUR DATASET
// * NAMING AND ALLOCATION CONVENTIONS.
// *
// * BE SURE TO CHANGE THE CSI CLUSTER NAME IN THE IDCAMS DEFINE STEP
// * NEAR THE END OF THIS JCL TO MATCH THE VALUE ASSIGNED TO THE SMPE
// * SET VARIABLE. THE SET COMMAND WILL NOT SUBSTITUTE THE NAME INTO
// * THE IDCAMS CONTROL STATEMENTS.
// *
// * IF AN EXISTING SMP/E CSI IS USED, THE LAST 2 STEPS CAN BE REMOVED.
// *
// *****
// *
// SET SMPE=Your.Results    HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
// SET RESULTS=Your.Results HIGH-LEVEL QUALIFIERS FOR RESULTS DSN'S
// SET TUNIT=SYSDA         UNIT FOR TARGET LIBRARIES

```

Figure 3 SMPJOB01 JCL (Page 1 of 3)

```

// SET DUNIT=SYSDA          UNIT FOR DISTRIBUTION LIBRARIES
// SET SUNIT=SYSDA          UNIT FOR SMP/E LIBRARIES
// SET TVOL=Volser          VOLUME FOR TARGET LIBRARIES
// SET DVOL=Volser          VOLUME FOR DISTRIBUTION LIBRARIES
// SET SVOL=Volser          VOLUME FOR SMP/E LIBRARIES
// *
// *****
// *
// * ALLOCATE VISION:RESULTS DISTRIBUTION LIBRARY
// *
// *****
// *
// DELD EXEC PGM=IEFBR14
// RESDLIB DD DSN=&RESULTS..RESDLIB,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&DUNIT
// *
// ALLOCD EXEC PGM=IEFBR14
// RESDLIB DD DSN=&RESULTS..RESDLIB,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&DUNIT,VOL=SER=&DVOL,
//          SPACE=(CYL,(8,3,20))
// *
// *****
// *
// * ALLOCATE VISION:RESULTS TARGET LIBRARY
// *
// *****
// *
// DELT EXEC PGM=IEFBR14
// RESTLIB DD DSN=&RESULTS..RESTLIB,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&TUNIT
// *
// ALLOCT EXEC PGM=IEFBR14
// RESTLIB DD DSN=&RESULTS..RESTLIB,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&TUNIT,VOL=SER=&TVOL,
//          SPACE=(CYL,(8,3,20))
// *
// *****
// *
// * ALLOCATE SMP/E LIBRARIES
// *
// *****
// *
// DELS EXEC PGM=IEFBR14
// SMPMTS DD DSN=&SMPE..SMPMTS,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// SMPSCDS DD DSN=&SMPE..SMPSCDS,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// SMPSTS DD DSN=&SMPE..SMPSTS,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// SMPLOG DD DSN=&SMPE..SMPLOG,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// SMPLOGA DD DSN=&SMPE..SMPLOGA,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// SMPPTS DD DSN=&SMPE..SMPPTS,
//          DISP=(MOD,DELETE),
//          SPACE=(TRK,(0,0)),
//          UNIT=&SUNIT
// *
// ALLOCS EXEC PGM=IEFBR14
// SMPMTS DD DSN=&SMPE..SMPMTS,

```

Figure 3 SMPJOB01 JCL (Page 2 of 3)

```

//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(2,1,50)),
//          DCB=(RECFM=FB,LRECL=80)
//SMPSCDS DD DSN=&SMPE..SMPSCDS,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(2,1,50)),
//          DCB=(RECFM=FB,LRECL=80)
//SMPSTS DD DSN=&SMPE..SMPSTS,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(2,1,50)),
//          DCB=(RECFM=FB,LRECL=80)
//SMPLOG DD DSN=&SMPE..SMPLOG,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(5,2)),
//          DCB=(RECFM=VB,LRECL=510)
//SMPLOGA DD DSN=&SMPE..SMPLOGA,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(5,2)),
//          DCB=(RECFM=VB,LRECL=510)
//SMPPTS DD DSN=&SMPE..SMPPTS,
//          DISP=(NEW,CATLG,DELETE),
//          DSNTYPE=LIBRARY,
//          UNIT=&SUNIT,VOL=SER=&SVOL,
//          SPACE=(CYL,(5,5,50)),
//          DCB=(RECFM=FB,LRECL=80)
//
//*****
//*
//* ALLOCATE SMP/E CSI FOR VISION:RESULTS
//*
//*****
//DEFINE EXEC PGM=IDCAMS,REGION=OM
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE (Your.Results.CSI) CLUSTER
SET MAXCC=0
DEFINE CLUSTER (
    NAME(Your.Results.CSI) -
    FREESPACE(10,5) -
    KEYS(24 0) -
    RECORDSIZE(24 143) -
    VOLUMES(VOLSER) -
    SHAREOPTIONS(2 3) -
)
DATA(
    NAME(Your.Results.CSI.DATA) -
    CONTROLINTERVALSIZE(4096) -
    CYLINDERS(10 5) -
)
INDEX(
    NAME(Your.Results.CSI.INDEX) -
    CYLINDERS(2 2) -
    IMBED -
)
//*****
//*
//* INITIALIZE SMP/E CSI FOR VISION:RESULTS
//*
//*****
//INIT EXEC PGM=IDCAMS,REGION=OM
//SYSPRINT DD SYSOUT=*
//SMPECSI DD DSN=&SMPE..CSI,DISP=OLD
//ZPOOL DD DSN=SYS1.MACLIB(GIMZPOOL),DISP=SHR
//SYSIN DD *
REPRO OUTFILE(SMPECSI) INFILE(ZPOOL)
//

```

Figure 3 SMPJOB01 JCL (Page 3 of 3)

CDES600

The JCL in member CDES600 is not executed now, but should be customized at this time because the values must match those in SMPJOB01. The changes made in CDES600 will be used by SMP/E to generate other jobs that will maintain and support VISION:Results.

To tailor this member:

1. Supply a valid JOB JCL statement.
2. Change the high-level qualifiers on the SET statement to match the value assigned in job SMPJOB01. Do not change the low-level portion of the DSNs.

The CDES600 JCL is shown in [Figure 4](#).

```

//          JOB ...
//*
// * MEMBER CDES600
// *****
// *
// * FMID MEMBER FOR VISION:RESULTS ELEMENTS
// *
// *****
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES ASSIGNED IN
// * JOB SMPJOB01.
// *
// *****
// *
// * SET RESULTS=YOUR.RESULTS    HIGH-LEVEL QUALIFIER FOR RESULTS DSN'S
// *
// * APPLY/ACCEPT VISION:RESULTS GENERATOR MODULES
// *
// EXECTGEN EXEC PGM=IEBCOPY,REGION=0M
// SYSPRINT DD SYSOUT=*
// RESTLIB DD DSN=&RESULTS..RESTLIB,DISP=SHR
// RESDLIB DD DSN=&RESULTS..RESDLIB,DISP=SHR
// SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SYSIN DD *
COPY INDD=RESDLIB,OUTDD=RESTLIB TYPE=MOD
SELECT MEMBER=( (CALELDRE,,R) )
SELECT MEMBER=( (CALELDRM,,R) )
SELECT MEMBER=( (CONVDATE,,R) )
SELECT MEMBER=( (CONVDATT,,R) )
SELECT MEMBER=( (CONVTPTT,,R) )
SELECT MEMBER=( (CSVRSLT,,R) )
SELECT MEMBER=( (CSVRSL2,,R) )
SELECT MEMBER=( (CSVSYST,,R) )
SELECT MEMBER=( (CSVSY2,,R) )
SELECT MEMBER=( (CVROMAN,,R) )
SELECT MEMBER=( (CVSTATE,,R) )
SELECT MEMBER=( (CVWORDS,,R) )
SELECT MEMBER=( (DYAUDIOU,,R) )
SELECT MEMBER=( (DYAUD2UP,,R) )
SELECT MEMBER=( (DYFREZ,,R) )
SELECT MEMBER=( (DYIQ280,,R) )
SELECT MEMBER=( (DYLADAYS,,R) )
SELECT MEMBER=( (DYLALLOC,,R) )
SELECT MEMBER=( (DYLBASE,,R) )
SELECT MEMBER=( (DYLBDAM,,R) )
SELECT MEMBER=( (DYLCA101,,R) )
SELECT MEMBER=( (DYLDAYWK,,R) )
SELECT MEMBER=( (DYLDDEFA,,R) )
SELECT MEMBER=( (DYLDDEFB,,R) )
SELECT MEMBER=( (DYLDDEFC,,R) )
SELECT MEMBER=( (DYLDEF,,R) )
SELECT MEMBER=( (DYLDEFAD,,R) )

```

Figure 4 CDES600 JCL (Page 1 of 2)

4. Change the three occurrences of CEE.SCEEMAC to the DSN of the LE system macro library at your site.

The SMPJOB02 job is shown in [Figure 5](#).

```

//          JOB
//*
//* MEMBER SMPJOB02
//*****
//*
//* DEFINE THE VISION:Results CSI GLOBAL, TARGET & DISTRIBUTION ZONES
//*
//*****
//*
//* REPLACE THE JOB CARD ABOVE.
//*
//* CHANGE THE SET PARAMETER BELOW TO MATCH THE VALUE ASSIGNED IN
//* JOB SMPJOB01.
//*
//*****
//*
//* SET SMPE=YOUR.RESULTS      HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
//*
//*****
//*
//* CHANGE THE CSI DATASET QUALIFIERS IN THE ZONEINDEX ENTRY BELOW
//* TO MATCH THE VALUE IN THE SET STATEMENT ABOVE.
//*
//* CHANGE THE DA NAMES FOR THE DDDEF ENTRIES BELOW TO THE
//* DATASET NAMES THAT WERE ALLOCATED IN SMPJOB01.
//*
//* MAKE OTHER CHANGES AS APPROPRIATE FOR YOUR INSTALLATION.
//*
//*****
//*
//SMPE EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
//SMPLOG DD DSN=&SMPE..SMPLOG,DISP=SHR
//SMPLOGA DD DSN=&SMPE..SMPLOGA,DISP=SHR
//SMPPTS DD DSN=&SMPE..SMPPTS,DISP=SHR
//SMPOUT DD SYSOUT=*
//SMPPUNCH DD SYSOUT=*
//SMPRPT DD SYSOUT=*
//SMPLIST DD SYSOUT=*
//SMPSNAP DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD DUMMY
//SMPTLIB DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SMPWRK1 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SMPWRK2 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SMPWRK3 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SMPWRK4 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SMPWRK5 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SMPWRK6 DD UNIT=SYSDA,SPACE=(CYL,(1,1,5))
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(5,2))
//SYSUT2 DD UNIT=SYSDA,SPACE=(CYL,(5,2))
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,2))
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,2))
//SMPCNTL DD *
SET BDY(GLOBAL).
UCLIN.
  ADD GLOBALZONE
  SREL (Z038)
  FMID (CDES600)
  OPTIONS (RES60OPT)
  ZONEDESCRIPTION(Advantage VISION:Results, Version 6.0)
  ZONEINDEX (
    (RES60TZ, YOUR.RESULTS.CSI,TARGET)
    (RES60DZ, YOUR.RESULTS.CSI,DLIB)
  ).
  ADD OPTIONS (RES60OPT)
  AMS (AMS)
  ASM (ASSEM)

```

Figure 5 SMPJOB02 JCL (Page 1 of 4)

```

COMP (COMPRESS)
COPY (COPY)
LKED (LINKEDIT)
NOPURGE
NOREJECT
RETRY (RETRY)
UPDATE (UPDATE)
ZAP (IMASPZAP) .
ADD UTILITY (AMS)      NAME (IDCAMS) .
ADD UTILITY (ASSEM)   NAME (ASMA90)
                       PARM (DECK,NOOBJECT,XREF (SHORT)) RC (04) .
ADD UTILITY (COMPRESS) NAME (IEBCOPY) .
ADD UTILITY (COPY)    NAME (IEBCOPY) .
ADD UTILITY (LINKEDIT) NAME (IEWL) PARM (LET,LIST,MAP) RC (08) .
ADD UTILITY (RETRY)   NAME (IEBCOPY) .
ADD UTILITY (UPDATE)  NAME (IEBUPDTE) .
ADD UTILITY (IMASPZAP) NAME (IMASPZAP) PARM (IGNIDRFULL) RC (04) .
ADD DDDEF (SMPLOG)
DA (YOUR.RESULTS.SMPLOG)
MOD.
ADD DDDEF (SMPLOGA)
DA (YOUR.RESULTS.SMPLOGA)
MOD.
ADD DDDEF (SMPPTS)
DA (YOUR.RESULTS.SMPPTS)
OLD.
ADD DDDEF (SYSMAC)
DA (SYS1.MACLIB)
SHR.
ADD DDDEF (SCEEMAC)
DA (CEE.SCEEMAC)
SHR.
ADD DDDEF (SYSLIB)  CONCAT (SYSMAC
                           SCEEMAC) .
ADD DDDEF (SMPDOUT)  SYSOUT (*) .
ADD DDDEF (SMPRPT)  SYSOUT (*) .
ADD DDDEF (SYSPRINT) SYSOUT (*) .
ADD DDDEF (SMPDLIB) UNIT (SYSDA) CYL SPACE (1,1) .
ADD DDDEF (SYSUT1)  UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE.
ADD DDDEF (SYSUT2)  UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE.
ADD DDDEF (SYSUT3)  UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE.
ADD DDDEF (SYSUT4)  UNIT (SYSDA) CYL SPACE (5,2) NEW DELETE.
ENDUCL.
SET BDY (RES60TZ) .
UCLIN.
ADD TARGETZONE (RES60TZ)
SREL (Z038)
RELATED (RES60DZ)
OPTIONS (RES60OPT) .
ADD DDDEF (SMPSCDS)
DA (YOUR.RESULTS.SMPSCDS)
OLD.
ADD DDDEF (SMPMTS)
DA (YOUR.RESULTS.SMPMTS)
OLD.
ADD DDDEF (SMPPTS)
DA (YOUR.RESULTS.SMPPTS)
SHR.
ADD DDDEF (SMPSTS)
DA (YOUR.RESULTS.SMPSTS)
OLD.
ADD DDDEF (SMPLOG)
DA (YOUR.RESULTS.SMPLOG)
MOD.
ADD DDDEF (SMPLOGA)
DA (YOUR.RESULTS.SMPLOGA)
MOD.
ADD DDDEF (RESTLIB)
DA (YOUR.RESULTS.RESTLIB)
SHR.
ADD DDDEF (RESDLIB)
DA (YOUR.RESULTS.RESDLIB)
SHR.
ADD DDDEF (RESILIB)
DA (YOUR.RESULTS.LOAD.LIBRARY)
SHR.

```

Figure 5 SMPJOB02 JCL (Page 2 of 4)

```

ADD DDDEF (SYSMAC)
  DA (SYS1.MACLIB)
  SHR.
ADD DDDEF (SCEEMAC)
  DA (CEE.SCEEMAC)
  SHR.
ADD DDDEF (SYSLIB)  CONCAT (SYSMAC
                        SCEEMAC) .
ADD DDDEF (SMPOUT)  SYSOUT (*) .
ADD DDDEF (SMPUNCH) SYSOUT (*) .
ADD DDDEF (SMPRPT)  SYSOUT (*) .
ADD DDDEF (SMPLIST) SYSOUT (*) .
ADD DDDEF (SMP SNAP) SYSOUT (*) .
ADD DDDEF (SYS PRINT) SYSOUT (*) .
ADD DDDEF (SYS DUMP) SYSOUT (*) .
ADD DDDEF (SMP TLIB) UNIT (SYSDA) CYL SPACE (1, 1) .
ADD DDDEF (SMP WRK1) UNIT (SYSDA) CYL SPACE (3, 1) DIR (20) NEW DELETE.
ADD DDDEF (SMP WRK2) UNIT (SYSDA) CYL SPACE (3, 1) DIR (20) NEW DELETE.
ADD DDDEF (SMP WRK3) UNIT (SYSDA) CYL SPACE (3, 1) DIR (20) NEW DELETE.
ADD DDDEF (SMP WRK4) UNIT (SYSDA) CYL SPACE (3, 1) DIR (20) NEW DELETE.
ADD DDDEF (SMP WRK5) UNIT (SYSDA) CYL SPACE (5, 5) DIR (50) NEW DELETE.
ADD DDDEF (SMP WRK6) UNIT (SYSDA) CYL SPACE (1, 1) DIR (10) NEW DELETE.
ADD DDDEF (SYS UT1)  UNIT (SYSDA) CYL SPACE (5, 2) NEW DELETE.
ADD DDDEF (SYS UT2)  UNIT (SYSDA) CYL SPACE (5, 2) NEW DELETE.
ADD DDDEF (SYS UT3)  UNIT (SYSDA) CYL SPACE (5, 2) NEW DELETE.
ADD DDDEF (SYS UT4)  UNIT (SYSDA) CYL SPACE (5, 2) NEW DELETE.
ENDUCL.
SET BDY (RES60DZ) .
UCLIN.
  ADD DLIBZONE (RES60DZ)
    SREL (Z038)
    RELATED (RES60TZ)
    OPTIONS (RES60OPT) .
  ADD DDDEF (SMPSCDS)
    DA (YOUR.RESULTS.SMPSCDS)
    OLD.
  ADD DDDEF (SMPMTS)
    DA (YOUR.RESULTS.SMPMTS)
    OLD.
  ADD DDDEF (SMPPTS)
    DA (YOUR.RESULTS.SMPPTS)
    SHR.
  ADD DDDEF (SMPSTS)
    DA (YOUR.RESULTS.SMPSTS)
    OLD.
  ADD DDDEF (SMPLOG)
    DA (YOUR.RESULTS.SMPLOG)
    MOD.
  ADD DDDEF (SMPLOGA)
    DA (YOUR.RESULTS.SMPLOGA)
    MOD.
  ADD DDDEF (RESDLIB)
    DA (YOUR.RESULTS.RESDLIB)
    SHR.
  ADD DDDEF (RESILIB)
    DA (YOUR.RESULTS.LOAD.LIBRARY)
    SHR.
  ADD DDDEF (RESTLIB)
    DA (YOUR.RESULTS.RESTLIB)
    SHR.
  ADD DDDEF (SYSMAC)
    DA (SYS1.MACLIB)
    SHR.
  ADD DDDEF (SCEEMAC)
    DA (CEE.SCEEMAC)
    SHR.
  ADD DDDEF (SYSLIB)  CONCAT (SYSMAC
                        SCEEMAC) .
  ADD DDDEF (SMPOUT)  SYSOUT (*) .
  ADD DDDEF (SMPUNCH) SYSOUT (*) .
  ADD DDDEF (SMPRPT)  SYSOUT (*) .
  ADD DDDEF (SMPLIST) SYSOUT (*) .
  ADD DDDEF (SMP SNAP) SYSOUT (*) .
  ADD DDDEF (SYS PRINT) SYSOUT (*) .
  ADD DDDEF (SYS DUMP) SYSOUT (*) .
  ADD DDDEF (SMP TLIB) UNIT (SYSDA) CYL SPACE (1, 1) .

```

Figure 5 SMPJOB02 JCL (Page 3 of 4)


```

ADD DDDEF(SMPWRK1) UNIT(SYSDA) CYL SPACE(3,1) DIR(20) NEW DELETE.
ADD DDDEF(SMPWRK2) UNIT(SYSDA) CYL SPACE(3,1) DIR(20) NEW DELETE.
ADD DDDEF(SMPWRK3) UNIT(SYSDA) CYL SPACE(3,1) DIR(20) NEW DELETE.
ADD DDDEF(SMPWRK4) UNIT(SYSDA) CYL SPACE(3,1) DIR(20) NEW DELETE.
ADD DDDEF(SMPWRK5) UNIT(SYSDA) CYL SPACE(5,5) DIR(50) NEW DELETE.
ADD DDDEF(SMPWRK6) UNIT(SYSDA) CYL SPACE(1,1) DIR(10) NEW DELETE.
ADD DDDEF(SYSUT1) UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.
ADD DDDEF(SYSUT2) UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.
ADD DDDEF(SYSUT3) UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.
ADD DDDEF(SYSUT4) UNIT(SYSDA) CYL SPACE(5,2) NEW DELETE.
ENDUCL.

```

Figure 5 SMPJOB02 JCL (Page 4 of 4)

SMPJOB03

Tailor and run job SMPJOB03 from the YOUR.RESULTS.SMPCNTL data set to RECEIVE the Modification Control Statements (MCS) and VISION:Results software system elements (SYSMODS) into the global zone and SMP/E data sets.

To tailor this job:

1. Supply a valid JOB JCL statement.
2. Change YOUR.RESULTS to the high-level qualifiers value used in the previous jobs (SMPJOB01 and SMPJOB02). Do not change the low-level portion of the DSNs.

The SMPJOB03 job is shown in [Figure 6](#).

```

//          JOB ...
// *
// * MEMBER SMPJOB03
// *****
// *
// * RECEIVE THE VISION:RESULTS PROGRAM ELEMENTS INTO THE SMP/E
// * GLOBAL ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETER BELOW TO MATCH THE VALUE ASSIGNED IN
// * JOB SMPJOB01.
// *
// *****
// *
// * SET SMPE=YOUR.RESULTS      HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
// * SET CNTL=YOUR.RESULTS     HIGH-LEVEL QUALIFIERS FOR SMP/E CNTL DSN
// *
// *****
// *
// * RECEIVE EXEC PGM=GIMSMP,REGION=0M
// * SMPCSI DD DSN=&SMPE. .CSI,DISP=SHR
// * SMPPTFIN DD DSN=&CNTL. .SMPCNTL(SMPMCS0),DISP=SHR MCS HEADER
// * DD DSN=&CNTL. .SMPCNTL(SMPMCS1),DISP=SHR GENERATOR
// * SMPCNTL DD *
// * SET BDY(GLOBAL).
// * RECEIVE SYSMODS LIST.
// * LIST.
//

```

Figure 6 SMPJOB03 JCL

The SMPJOB03 JCL installation source members SMPMCS0 and SMPMCS1 are shown in [Figure 7](#) and [Figure 8](#).

```

++FUNCTION(CDES600)
/*****
/* Advantage VISION:Results for z/OS - Version 6.0          */
/* COPYRIGHT (C) 2006 CA. ALL RIGHTS RESERVED.             */
/*****
++VER(Z038).
++JCLIN TXLIB(IJCLIN).

```

Figure 7 SMPMCS0 Source Member

```

++MOD(CALELDRE) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CALELDRE,
CALELDRM).
++MOD(CALELDRM) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CALELDRM).
++MOD(CONVDATE) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CONVDATE).
++MOD(CONVDATT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CONVDATT).
++MOD(CONVTPRT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CONVTPRT).
++MOD(CSVRSLT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CSVRSLT).
++MOD(CSVRSL2) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(PACK,
UNPACK2,
CSVRSL2).
++MOD(CSVSYST) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CSVSYST).
++MOD(CSVSYS2) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(PACK,
UNPACK2,
CSVSYS2).
++MOD(CVROMAN) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CVROMAN).
++MOD(CVSTATE) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CVSTATE).
++MOD(CVWORDS) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(CVWORDS).
++MOD(DYAUDIOU) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYAUDIOU).
++MOD(DYAUD2UP) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYAUD2UP).
++MOD(DYFREQ) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYFREQ).
++MOD(DYIQ280) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYIQ280).
++MOD(DYLADAYS) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYLADAYS).
++MOD(DYLALOC) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYLALOC,
DYLTEXTS,
DYLTBLES,
FPOODYN).
++MOD(DYLBASE) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(ROOT00,
FP00,
CSP00,
DYLT SORT,
VDR00,
VDA00,
FRATF00,
ERPR00,
GM00,
VDR01,
VDR02,
CV00,
FCV00,
LV00,

```

Figure 8 SMPMCS1 Source Member (Page 1 of 7)

```

LV100,
TBL00,
DV00,
DV01,
EDT00,
DV100,
RCV00,
RTV00,
KV00,
FVA00,
KV200,
KV300,
KV400,
FVB00,
KV500,
KV600,
VDR03,
VDR04,
PCB00,
SPERTN,
EOJ00,
SPE00,
VDR10,
GTH00,
VAHLT00,
VANLT00,
VAUL00,
TBLPR00,
CPY00,
CAS00,
CTS00,
CMV00,
DCR00,
CAL00,
CES00,
CED00,
DMS00,
CBL00,
CRF00,
MAL00,
CDA00,
RW00,
FC00,
FCL00,
DYL260GN,
PRC00,
END00,
FRERST00,
VDR05) .
++MOD (DYLB DAM) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DMRTRRWA,
DMRTSRWA,
DMRTRDUM,
DMDRIVER) .
++MOD (DYLCAT01) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLCAT01,
NEWAREA) .
++MOD (DYLDAYWK) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLDAYWK) .
++MOD (DYLDDEFA) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT ($SEGTAB,
DAINDVR,
DAINADR,
DAINDUMY,
DAINRFL,
DAINRFZ,
$ENTAB,
DAINSCB,
DAINITZ,
DAINSED,
DAINSCN,
DAINSRN,
DAINLBD) .
++MOD (DYLDDEFB) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DAPSDVR,
DAPSINF,

```

Figure 8 SMPMCS1 Source Member (Page 2 of 7)

```

DAPSCN,
DAPSFQ,
DAPSLR,
DAPSSP,
DAPSRAN,
DAPSDUMY) .
++MOD (DYLDDEF) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT ($SEGTAB,
DAENDV,
DAENDSQ,
DAPSPKF,
DAENSRT,
DAENSDV,
DAENLAR,
$ENTAB,
DAENDFQ,
DAENDHS,
DAENDSP,
DAENDLR,
DAENLRSQ,
DAENDCN,
DAENDUMY) .
++MOD (DYLDDEF) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DARTDVR,
DARTDEC,
DARTFP,
DARTNSR,
DARTPRT,
DARTSPY,
DARTDUMY,
DARTLVC,
DARTABD,
DARTLCB,
ARDAT00,
DARTSPH,
DARTSPI,
DARTSPP,
DARTSPE,
DARTSPF,
DARTSPW,
DARTSPX,
DARTSPZ) .
++MOD (DYLDDEF) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (ARDRV,
ARDRV05,
ARABD00,
ARATF00,
ARCEP00,
ARCP00,
ARDAT00,
ARDUMY,
ARERR00,
ARFP00,
ARIO00,
ARLCB00,
ARSPY00,
ARSR00,
AR2IO00) .
++MOD (DYLEDV) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLEDV,
DYLEENT,
CEEMAIN,
CEEBETBL,
CEESTART,
CEETREC,
CEEBPIRA,
CEECPYRT,
CEEBPUBT,
CEEBTRM,
CEEBLLST,
CEEBINT) .
++MOD (DYLEPRMO) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLEPRMO) .
++MOD (DYLEXP) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLEXPEX,
ASAN00,

```

Figure 8 SMPMCS1 Source Member (Page 3 of 7)

```

        ASAX00,
        DYLCFPP,
        ASCFP00,
        ASEX00,
        ASLNX00) .
++MOD (DYLFMTJG) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLFMTJG) .
++MOD (DYLIOU) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLIOU) .
++MOD (DYLIQPR) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLIQPR) .
++MOD (DYLLMP) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLLMP) .
++MOD (DYLMQ) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLMQ,
        DYLMQTB,
        CSQAA,
        CSQBSTUB) .
++MOD (DYLPFCFIL) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYPCIOU,
        DYLPFCFIL) .
++MOD (DYLPFPS) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT (DYLPFPS) .
++MOD (DYLPEFA) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT ($SEGTAB,
        DYLAUDA,
        $ENTAB,
        AIPSW00,
        AIDRV00,
        AIGT00,
        AIRIN00,
        AVDRV00,
        AVNUM00,
        AVGCB00,
        AVRRN00,
        AVLBT00,
        IVLTBL,
        AVIMG00,
        AVFJG00,
        $ENTAB,
        AVRSR00,
        IVSRCBS,
        AVRSI00,
        IVSICBS,
        AVFRQ00,
        IVFQCB,
        AVFDEC,
        AVCNF00,
        AVCNW00,
        IVCNCB,
        AVRGA00,
        IVLRCB,
        AVDUMY,
        ASDUMY) .
++MOD (DYLPEFB) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT ($SEGTAB,
        DYLAUDB,
        $ENTAB,
        ALDRV00,
        ALSRT00,
        ALBIS00,
        ALNUM00,
        $ENTAB,
        ALSMP00,
        ALFQA00,
        ALCNF00,
        AFDRV00,
        ADDR00,
        ADDR00) .
++MOD (DYLPEFC) DISTLIB (RESDLIB) LKLIB (RESILIB)
CSECT ($SEGTAB,
        DYLAUDC,
        $ENTAB,
        ANDRV00,
        ANDEC00,
        AWDRV00,

```

Figure 8 SMPMCS1 Source Member (Page 4 of 7)

```

        AWIO00,
        $ENTAB,
        AWDYLO0,
        AWCBS00,
        AWCTL00,
        AWCNR00,
        AWRNG00,
        AWPRT00) .
++MOD (DYLDPDEFD) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (ASRNG00) .
++MOD (DYLDPDEFE) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT ($SEGTAB,
        APDRV00,
        $ENTAB,
        APERR00,
        APDUMY) .
++MOD (DYLDPDEFF) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (AZDRV00,
        AZFIX00,
        AZDUMY) .
++MOD (DYLDPDEFG) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (AZSPY00,
        AZCAS00,
        AZDMP00) .
++MOD (DYLDPDEFH) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (AHFRZ00,
        AHCBF00) .
++MOD (DYLPRCA) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLPRCA) .
++MOD (DYLPRTF) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLPRTF) .
++MOD (DYLPRTS) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLPRTS) .
++MOD (DYLRSORT) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DUMSORT,
        DYLSRT,
        DYLSRCL) .
++MOD (DYLVLINK) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLVLINK) .
++MOD (DYLXMLFL) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLXMLFL,
        DYXMLIO,
        DYLXMLTB) .
++MOD (DYLZDEFA) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLZDEFA) .
++MOD (DYLZDEFB) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYLZDEFB) .
++MOD (DYL260) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (CMRD00) .
++MOD (DYL260M) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (MRDR00) .
++MOD (DYL260P) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (MRPP00,
        ATF00,
        MRCPY) .
++MOD (DYL260XX) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (CMRD00) .
++MOD (DYL280) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYL280,
        RDRCRD,
        DYL280DM) .
++MOD (DYL280L) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYL280L) .
++MOD (DYL280N) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYL280N) .
++MOD (DYL280P) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (DYL280P) .
++MOD (DYL280V) DISTLIB (RESDLIB) LKLIB (RESILIB)
        CSECT (FRDRV00,
        FRI000,
        FRFMSG,
        FRABD00,
        FRATF00,
        FRMSGTBL,
        FRFP00,
        FRCP00,

```

Figure 8 SMPMCS1 Source Member (Page 5 of 7)

```
FRCP01,  
FRSPY00,  
FRDAT00,  
FRPRTSZ,  
FRLSDCB,  
DYL280DV,  
FIDRV00,  
FISTFD,  
FIGENDN,  
FIGTMAC,  
FIDYDATE,  
DYLADAYS,  
DYLDAYWK,  
FVDRV00,  
FVUTIL,  
FVUTIL2,  
FVTBL00,  
FVSUM,  
FVINDEXT,  
FVGNOUT,  
FVXREF,  
FVDSCT,  
FVEXEC,  
FVKEYDS,  
FVKEYFX,  
FVPCFIL,  
FVPCWRT,  
FVIQFIL,  
FVIQRD,  
FVDYNAM,  
FVDB2CAT,  
FVGNST,  
FVENONE,  
FVOPTON,  
FVAUDIT,  
FVAUDEX,  
FVFILE,  
FVFLKY,  
FVMDEX,  
FVFCMB,  
FVWKREA,  
FVDATNM,  
FVCOBOL,  
FVUSE,  
FVPICSAV,  
FVTRAN,  
FVEDIT,  
FVLIST,  
FVCNTRL,  
FVARITH,  
FVIF,  
FVENDIF,  
FVELSE,  
FVNEXT,  
FVCOMB,  
FVSORT,  
FVRSORT,  
FVRDPDS,  
FVAUDEF,  
FVLETEF,  
FVCALL,  
FVTAG,  
FVGOTO,  
FVPERFM,  
FVSTOP,  
FVON,  
FVREJCT,  
FVACCPT,  
FVCOPY,  
FVDEF,  
FVAUDKW,  
FVREPRT,  
FVTN,  
FVRDWR,  
FVPF,  
FVFJG00,
```

Figure 8 SMPMCS1 Source Member (Page 6 of 7)

```

FVTBAR,
FVREST,
FVSRCH,
FVTSORT,
FVDLET,
FVTBFRS,
FVMM,
FVFREQ,
FVSAMP,
FVMOVCOR,
FVVFILE,
FVVFILEG,
FVVCMD,
FVIDMOV,
FVMQ,
FVXMLFL,
FVXMLWR,
FMDRV00,
FMALGN,
FMBREAK,
FMTAGCK,
FMSUM,
FMWORK,
FMSRTCK,
FMGNOUT,
FTDRV00,
FTCONT,
FTFILE,
FTLABEL,
FTNSR,
FTDATA,
FTREP,
FTITLE,
FTPRINT,
FFDRV00,
FFXREF,
FFPRTPCP,
FZDRV00,
FZSPY00,
FZCAS00).
++MOD(DYL4INIT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DYL4INIT).
++MOD(DY280PDS) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DY280PDS,
WRTPDS,
DYLDIR).
++MOD(DY280SA) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DY280SA).
++MOD(DY280TB) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DY280TB).
++MOD(DY282MAT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DY282MAT).
++MOD(DY282MER) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(DY282MER).
++MOD(FROMROM) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(FROMROM).
++MOD(GETCATLG) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(GETCATLG).
++MOD(HCSDATA) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(HCSDATA).
++MOD(HCSDATA1) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(HCSDATA1).
++MOD(HTMLRSLT) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(RSLTHTMA).
++MOD(PRTPCP) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(PRTPCP).
++MOD(RSLTHTML) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(RSLTHTML).
++MOD(TIMEGET) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(TIMEGET).
++MOD(TLBMDAM) DISTLIB(RESDLIB) LKLIB(RESILIB)
CSECT(TLBMDAM,
TLBMDAMO,
TLMEMORY).

```

Figure 8 SMPMCS1 Source Member (Page 7 of 7)

SMPJOB04

Tailor and run job SMPJOB04 from the YOUR.RESULTS.SMPCNTL data set to APPLY the VISION:Results software system modules and elements (SYSMODS) into the target library.

To tailor this job:

1. Supply a valid JOB JCL statement.
2. Change YOUR.RESULTS to the high-level qualifiers value used in the previous jobs. Do not change the low-level portion of the DSNs.

The SMPJOB04 job is shown in [Figure 9](#).

```
//          JOB ...
// *
// * MEMBER SMPJOB04
// *****
// *
// * APPLY THE VISION:RESULTS ELEMENTS TO THE SMP/E
// * TARGET ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES ASSIGNED IN
// * JOB SMPJOB01.
// *
// *****
// *
// * SET SMPE=Your.Results      HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
// * SET CNTL=Your.Results     HIGH-LEVEL QUALIFIERS FOR SMP/E CNTL DSN
// *
// APPLY EXEC PGM=GIMSMP,REGION=0M
// SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
// IJCLIN DD DSN=&CNTL..SMPCNTL,DISP=SHR
// SMPCNTL DD *
//          SET BDY(RES60TZ).
//          APPLY SELECT(CDES600).
//          LIST.
//
```

Figure 9 SMPJOB04 JCL

SMPJOB05

Tailor and run job SMPJOB05 from the YOUR.RESULTS.SMPCNTL data set to ACCEPT the VISION:Results software system modules and elements (SYSMODS) into the distribution library.

To tailor this job:

1. Supply a valid JOB JCL statement.
2. Change YOUR.RESULTS to the high-level qualifiers value used in the previous jobs. Do not change the low-level portion of the DSNs.

The SMPJOB05 job is shown in [Figure 10](#).

```

//          JOB ...
// *
// * MEMBER SMPJOB05
// *****
// *
// * ACCEPT THE VISION:RESULTS PROGRAM ELEMENTS INTO THE SMP/E
// * DISTRIBUTION ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES ASSIGNED IN
// * JOB SMPJOB01.
// *
// *****
// *
// SET SMPE=Your.Results      HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
// SET CNTL=Your.Results      HIGH-LEVEL QUALIFIERS FOR SMP/E CNTL DSN
// *
//ACCEPT EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
//IJCLIN DD DSN=&CNTL..SMPCNTL,DISP=SHR
//SMPCNTL DD *
//      SET BDY(RES60DZ) .
//      ACCEPT SELECT(CDES600) .
//      LIST.
//

```

Figure 10 SMPJOB05 JCL

SMPJOB06

At this point in the installation, the SMP/E target and distribution libraries contain identical copies of the VISION:Results system. The next step is to create the working copy of these libraries. (From this point on, the working copy will be referred to as the VISION:Results operational library.) The VISION:Results operational library is used to customize the VISION:Results system and complete the installation. The operational library is also used to execute and run the VISION:Results applications.

Tailor and run job SMPJOB06 from the YOUR.RESULTS.SMPCNTL data set to define the VISION:Results operational library and then copy the contents of the distribution library into the operational library.

To tailor this job:

1. Supply a valid JOB JCL statement.
2. Change YOUR.RESULTS to the high-level qualifiers value used in the previous jobs. Do not change the low-level portion of the DSNs.
3. Change YOUR.RESULTS.?????? to the VISION:Results operational library name. This is the library you will use to run VISION:Results jobs.
4. Specify a SMS Storage Class (STORCLAS=???????) for your VISION:Results operational library. The operational library will be a PDSE so that USERMODS and PTFS that have been added to the SMP/E distribution library can be readily copied into the operational library.

The SMPJOB06 job is shown in [Figure 11](#).

```

//          JOB ...
// *
// * MEMBER SMPJOB06
// *****
// *
// * DEFINE THE VISION:RESULTS OPERATIONAL LIBRARY AND COPY THE CONTENTS
// * OF THE SMP/E DISTRIBUTION LIBRARY INTO THE VISION:RESULTS
// * OPERATIONAL LIBRARY
// *
// * The SMP/E DISTRIBUTION LIBRARY IS THE SAME NAME USED IN THE
// * SMPJOB01 JOB.
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET COMMAND PARAMETERS BELOW TO REFLECT YOUR DATASET
// * NAMING AND ALLOCATION CONVENTIONS.
// *
// *****
// *
// * SET SMPE=YOUR.RESULTS.RESDLIB          SMP/E DISTRIBUTION LIBRARY
// * SET RESULTS=YOUR.RESULTS.??????      RESULTS OPERATIONAL LIBRARY
// * SET UNIT=SYSDA                        UNIT FOR OPERATIONAL LIBRARY
// * SET STORCLAS=????????                STORAGE CLASS FOR THE
// *                                       OPERATIONAL LIBRARY
// *****
// *
// * ALLOCATE VISION:RESULTS OPERATIONAL LIBRARY
// * NOTE: VISION:RESULTS OPERATIONAL LIBRARY WILL BE ALLOCATED AS A
// *       PDSE LIBRARY
// *
// *****
// *
// * DELETE EXEC PGM=IEFBR14
// * RESULTS DD DSN=&RESULTS,
// *          DISP=(MOD,DELETE),
// *          SPACE=(TRK,(0,0)),
// *          UNIT=&UNIT
// *
// * ALLOCATE EXEC PGM=IEFBR14
// * RESULTS DD DSN=&RESULTS,
// *          DISP=(NEW,CATLG,DELETE),
// *          UNIT=&UNIT,STORCLAS=&STORCLAS,
// *          DSNTYPE=LIBRARY,
// *          SPACE=(CYL,(4,3,20))
// *
// *****
// *
// * COPY CONTENTS OF RESULTS DISTRIBUTION LIBRARY INTO RESULTS
// * OPERATIONAL LIBRARY
// *
// *****
// *
// * COPY EXEC PGM=IEBCOPY,REGION=0M
// * SYSPRINT DD SYSOUT=*
// * RESDLIB DD DSN=&SMPE,DISP=OLD
// * RESOLIB DD DSN=&RESULTS,DISP=OLD
// * SYSUT3 DD UNIT=SYSDA,SPACE=(TRK,10)
// * SYSUT4 DD UNIT=SYSDA,SPACE=(TRK,10)
// * SYSIN DD *
// * COPY INDD=RESDLIB,OUTDD=RESOLIB TYPE=MOD
// *

```

Figure 11 SMPJOB06 JCL

Step 4. Set Up VISION:Results

Step 4 of the installation process involves setting up VISION:Results. This section describes the following tasks:

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Task 4A. Customize the RESULTS JCL Procedure

The RESULTS member in the installation source library, YOUR.RESULTS.SOURCE.LIBRARY, is a JCL procedure called RESULTS that is set up to run your VISION:Results applications. The RESULTS procedure in the installation source library is shown in [Figure 12](#).

```
//RESULTS PROC DR=0M,
//          COPY='YOUR.RESULTS.COPY.LIBRARY',
//          DS='YOUR.RESULTS.OPERATIONAL.LIBRARY',
//          HT='YOUR.RESULTS.HTML.LIBRARY',
//          DT='(,40)',
//          DWS=TRK,
//          DWSP=10,
//          DWSS=5,
//          DWU=SYSDA,
//          ROUT='*',
//          SOUT='*',
//          SRTLIB='SYS1.SORTLIB',
//          SRTSC=CYL,
//          SRTUNIT=SYSDA,
//          SRTWRK=5
//*
//* SYMBOLIC PARAMETERS USED IN THIS PROCEDURE
//*
//* COPY      = RESULTS COPY/COPYE LIBRARY
//* DR        = RESULTS REGION SIZE
//* DS        = RESULTS OPERATIONAL LOAD LIBRARY DATA SET NAME
//* DT        = RESULTS EXECUTION TIME LIMIT
//* HT        = RESULTS HTML TEMPLATE LIBRARY
//* DWS       = RESULTS WORK FILE DASD SPACE CLASS
```

Figure 12 RESULTS Procedure (Page 1 of 2)

```

//* DWSP      = RESULTS WORK FILE DASD SPACE PRIMARY ALLOCATION
//* DWSS      = RESULTS WORK FILE DASD SPACE SECONDARY ALLOCATION
//* DWU       = RESULTS WORK FILE UNIT CLASS
//* ROUT      = RESULTS REPORT OUTPUT DESTINATION
//* SOUT       = RESULTS PRINTED OUTPUT DESTINATION
//* SRTLIB    = SORT LIBRARY DATA SET NAME
//* SRTSC     = SORT SPACE CLASS
//* SRTUNIT   = SORT UNIT CLASS
//* SRTWRK    = SORT SPACE ALLOCATION
//
//STEP01 EXEC PGM=DYL280,REGION=&DR,TIME=&DT
//STEPLIB DD DSN=&DS,DISP=SHR
//SYSPRINT DD SYSOUT=&SOUT
//SYS280R DD SYSOUT=&ROUT
//SYSOUT DD SYSOUT=&SOUT
//ABNLIGNR DD DUMMY
//SYSUDUMP DD SYSOUT=&SOUT
//AUDPRINT DD SYSOUT=&SOUT,DCB=BLKSIZE=133
//SYSCOPY DD DSN=&COPY,DISP=SHR
//VRHTMLIB DD DSN=&HT,DISP=SHR
//VRHTMWRK DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))
//SYS004 DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))
//AUDWORK DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))
//AUDEPF DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS)),
//      DCB=(BLKSIZE=800,LRECL=80,RECFM=FB)
//AUDCBF DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS)),DCB=BLKSIZE=1000
//SORTLIB DD DSN=&SRTLIB,DISP=SHR
//SORTWK01 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)
//SORTWK02 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)
//SORTWK03 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)

```

Figure 12 RESULTS Procedure (Page 2 of 2)

The RESULTS procedure should be tailored to your installation requirements.

1. Change YOUR.RESULTS.COPY.LIBRARY to the copy library that contains your VISION:Results source and copy members:
YOUR.RESULTS.SOURCE.LIBRARY.
2. Change YOUR.RESULTS.OPERATIONAL.LIBRARY to the name of the operational library that was used in the SMPJOB06 job. This is the library that was built to execute VISION:Results.
3. Change YOUR.RESULTS.HTML.LIBRARY to the name of the library that contains your HTML templates. It should be the same name as the one you used for YOUR.RESULTS.HTMLLIB in the Installation JCL job ([Task 2C. Copy the Remaining Files on page 20](#)).

After making these modifications, copy this member to an existing procedural library that can be used by VISION:Results users to invoke this procedure.

Task 4B. Customize the Compile and Run Time Parameters in DYLINSTL Macro (Optional)

The DYLINSTL macro determines the compile and run time processing of your VISION:Results applications. A default of the DYLINSTL macro parameters is included in VISION:Results. The assembling and link-editing of the DYLINSTL macro creates the DYLPDPS module. The DYLPDPS module, with the DYLINSTL macro defaults, is included in the YOUR.RESULTS.LOAD.LIBRARY data set. You need to prepare the DYLINSTL macro and execute the CUSTMJCL member only if changes are required in the DYLINSTL macro parameters. [Appendix A: DYLINSTL Macro](#) lists and describes all the DYLINSTL macro parameters.

Your VISION:Results programs also list all the DYLINSTL parameters. At the end of a run, VISION:Results prints a report displaying the settings of all the DYLINSTL parameters that are applicable to the z/OS platform and to the application. Most of the parameters display two settings: the default value, which is displayed to the left of the slash (/), and the override value that is in effect, which is displayed to the right of the slash (/).

The overrides can come from either changes to the DYLINSTL parameters or parameters coded in the VISION:Results programs' OPTION statements. The parameters coded on the OPTION statements override parameters coded on the DYLINSTL parameters. If there are no override values, the default value is in effect and there is no value displayed to the right of the slash. The DYLINSTL macro parameter settings report is printed in the listings (SYSPRINT), with the title DEFAULT OPTIONS SPECIFIED ARE. The following shows how the DYLINSTL parameter settings are displayed when all of the defaults are used.

DEFAULT OPTIONS SPECIFIED ARE:

```

ENVIRONMENT IS MVS
CPUID 2084      C0851

ASALINE(N/), BATCHIQ(LIBATCH/), CEYSIGN(N/), CEVINEM(75/), CENTRY1(/), CENTRY2(/), COBAPOS(Y/),
COBEDIT(A/), COBENV(N/), COMPERR(N/), COB2NR(N/), COMPWRK(1500K/), CURRENCY($/), DATATRN(Y/),
DECIML9(E/), DELIM(/), DLMFRST(N/), DUPCENM(N/), DYLVARP(N/), DYLYR(N/), EDALIGN(N/),
EDP1ZERO(N/), EDSUPR(N/), EURODAT(N/), EURONUM(N/), EXCEL(N/), EXCLPAT(N/), EXPERRR(N/),
FREEMEM(1000K/), FREEZDD(SYS280FZ/), GETMAX(2500K/), KMDLT(N/), LE(Y/), LIBRBUF(60K/),
LPPUNLMT(N/), LSTSTMX(N/), LTRFRM(N/), LTRZERO(N/), MACHORG(N/), MAXDNLN(50/), MAXDYLF(175/),
MNAMEMU(N/), NAMEHDR(/), NDVRCOM(N/), NDVRENV(/), NODLETE(N/), NOVSOIO(N/), NOPWRT(N/),
NOSKTAB(N/), NOTOTAL(N/), NOVSOIO(N/), NUMCHAR(N/), NUMED(N/), OPTPRD(Y/), OPTPRR(N/Y),
OUTFILE(N/), PANVBUF(60K/), PDSREPL(N/), PGLINER(55/), PGLINES(55/),
PROGMOD(XREFPREF,CONVENTIONAL,EXP/XREFA), PRCTIRS(N/), PRTZERO(N/), QLF(N/), RANDMECT(N/),
RDYONLY(N/), RESRWD(N/), RETCODE(Y/), RPTASA(N/), RPTDDNM(SYS280R/), RPTXPAG(N/),
SORTDEV(SYSDA/), SORTDYN(N/), SORTMEM(36K,100K,700K,100K/), SORTNAM(SORT/), SSMASK(N/),
STRUCO(N/), SUBRADD(Y/), SUBCOEW(Y/), SUBRESQ(N/), SUP1.82W(N/), SYSELOK(N/), TIMESEP(D/),
VSAMCAT(Y/), VDUPARND(N/), VSAMMSG(N/), XREF$(N/), ZD1VAB(O/)
```

Note: DYLINSTL macro parameters that are specific to the Advantage™ VISION:Results® Interface™ to DB2 are displayed only when the Interface is used.

To determine if changes from the defaults are required in the DYLINSTL macro parameters, see [Appendix A: DYLINSTL Macro](#).

Run CUSTMJCL to Change the DYLINSTL Macro Parameters

The CUSTMJCL member in YOUR.RESULTS.SOURCE.LIBRARY contains a job to assemble and link-edit the DYLINSTL macro.

This job creates the DYLPAPS module, which has all DYLINSTL parameter changes. The operational library is link-edited with the new DYLPAPS module. The CUSTMJCL member for assembling and link editing the DYLINSTL macro is shown in [Figure 13](#).

When CUSTMJCL is run to customize any parameter, the PRODUCT and ENVIRON parameters must also be specified.

Note: Every time you submit the CUSTMJCL job you must have all the parameters you plan to override coded or the default will be used for the uncoded parameter values.

```

/* YOUR JOB CARD GOES HERE
//ASMLINK PROC DISK=SYSDA,
//      SOUT='*',
//      SOURCLB='YOUR.RESULTS.SOURCE.LIBRARY',      OLD
//      LOADLIB='YOUR.RESULTS.OPERATIONAL.LIBRARY'  OLD
//*
*****
//*
//HLASM  EXEC PGM=ASMA90,REGION=0M,TIME=(,40),      X
//      PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))', X
//      TERM,'XREF(FULL)')
//SYSLIB DD DSN=&SOURCLB,DISP=SHR
//      DD DSN=SYS1.MACLIB,DISP=SHR
//SYSLIN DD DSNAME=&&OBJ,UNIT=&DISK,SPACE=(3040,(80,80),,ROUND),
//      DISP=(MOD,PASS),
//      DCB=(BLKSIZE=3040,LRECL=80,RECFM=FBS,BUFNO=1)
//SYSUT1 DD DSNAME=&SYSUT1,UNIT=&DISK,SPACE=(1700,(400,50)),
//      SEP=(SYSLIN)
//SYSUT2 DD DSNAME=&SYSUT2,UNIT=&DISK,SPACE=(1700,(400,50)),
//      SEP=(SYSLIN,SYSUT1)
//SYSUT3 DD DSNAME=&SYSUT3,UNIT=&DISK,SPACE=(1700,(400,50)),
//      SEP=(SYSLIN,SYSUT1,SYSUT2)
//SYSPRINT DD SYSOUT=&SOUT
//SYSPUNCH DD DUMMY
//SYSTEM DD SYSOUT=&SOUT
//*
//STEP02 EXEC PGM=IEWL,REGION=0M,PARM='XREF,LIST,NCAL',
//      COND=(0,NE)
//* LINK EDIT THE CUSTOMIZING INFORMATION.
//SYSPRINT DD SYSOUT=&SOUT
//SYSUT1 DD UNIT=&DISK,SPACE=(1024,(250,20))
//SYSLMOD DD DSN=&LOADLIB.(DYLPCPS),DISP=SHR
//SYSLIN DD DSN=&&OBJ,DISP=(OLD,DELETE)
//*
//      PEND
//*
//STEP1  EXEC ASMLINK
//SYSIN  DD *
          DYLINSTL ENVIRON=MVS,LE=N,COBENV=Y,      X
          PRODUCT=II,COBEDIT=E,NOPOWRT=Y,      X
          OPTPRDG=N,SORTMEM=(100,500,1000,      X
          500)
      END
/*

```

Figure 13 CUSTMJCL Job

Make the following changes to the default symbolic parameters in the JCL procedure before submitting it for execution:

1. Replace the first line of this file with the job statement necessary to run this job at your installation.
2. Change SYSDA in DISK=SYSDA to the device class type or SMS defined unit that is used for the VISION:Results operational library.
3. Change YOUR.RESULTS.SOURCE.LIBRARY to the name of the VISION:Results installation source library.
4. Change YOUR.RESULTS.OPERATIONAL.LIBRARY to the name of the VISION:Results operational library you created.

Note: Every time you submit the CUSTMJCL job you must have all the parameters you plan to override coded or the default will be used for the uncoded parameter values.

When using the DYLINSTL MACRO, follow all standard IBM Assembler coding conventions:

- Do not start the macro name (DYLINSTL) in position 1 of the input line.
- Separate the macro name by at least one blank space from the first parameter (ENVIRON in the example shown below).
- Specify the parameters in any order, separated by commas with no intervening blanks.
- Do not extend the input line past position 71.
- If the line must be continued, leave blank spaces after the last comma prior to position 71 and enter any non-blank character in position 72 (x in the following example). The last comma prior to position 71 of a continued statement may be the one separating parameters or items within an option list (such as the SORTMEM parameter in the example below).
- Begin the next parameter (or option list item) in position 16 of the following input line.
- Follow the last parameter (SORTMEM in the example) with blanks.
- Code the final line with the keyword END between positions 2 and 71.

After coding the parameters to be used with the DYLINSTL macro, submit the CUSTMJCL job. The CUSTMJCL job assembles and link-edits the DYLINSTL macro, creates the DYLPAPS module, and places it into the VISION:Results operational library.

Inspect any return code other than zero. A return code of 4 is not always acceptable, especially if the SYSTERM output of the CUSTMJCL assemble step contains the following warning message:

```
ASMA432W Continuation statement may be in error - comma omitted
```

Make the correction and rerun the CUSTMJCL job.

The CUSTMJCL example below shows a sample DYLINSTL macro where COBOL II programs are used instead of LE COBOL programs. (The COBENV and LE parameters are mutually exclusive.) Other changes specify the COBOL edit code be changed to E, no writing to PDS files, and change the default from OPTION PRINTDIGITS to OPTION NOPRINTDIGITS.

```

10      16                                     72
|      |                                     |
DYLINSTL ENVIRON=MVS,LE=N,COBENV=Y,          x
        PRODUCT=II,COBEDIT=E,NOPOWRT=Y,      x
        OPTPRDG=N,SORTMEM=(100,500,1000,      x
        500)
END

```

The following shows how the DYLINSTL parameter settings will be displayed.

Note: The changed parameters are shown in **red** and **bold**.

DEFAULT OPTIONS SPECIFIED ARE:

```

ENVIRONMENT IS MVS
CPUID 2084      10851

ASALINE(N/), BATCHIQ(LIBATCH/), CBYSIGN(N/), CENINEN(75/), CENIRY1(/), CENIRY2(/), COBAPDS(Y/),
COBEDIT(A/E), COBENV(N/Y), COMPERR(N/), COB2NR(N/), COMPWRK(1500K/), CURRENCY($/), DATATRN(Y/),
DECIML9(E/), DELIM(/), DLMFRST(N/), DUPCBNM(N/), DYLVARP(N/), DYLAYR(N/), EDALIGN(N/),
DPLZERO(N/), EDSUPR(N/), EURODAT(N/), EURONUM(N/), EXCEL(N/), EXCLEPAT(N/), EXPERRR(N/),
FREEMEM(1000K/), FREEZDD(SYS280FZ/), GETMAX(2500K/), KWDLIT(N/), (LE(Y/N), LIBRBUF(60K/),
LPPUNLMT(N/), LSTSTMX(N/), LITRFRM(N/), LITRZERO(N/), MACHORG(N/), MAXLNLN(50/), MAXDYLFL(175/),
MNMAMNU(N/), NAMEHDR(/), NDVRCOM(N/), NDVREN(/), NODLETE(N/), NOVSOIO(N/), NOPOWRT(N/Y),
NOSRTAB(N/), NOTOTAL(N/), NOVSIIO(N/), NUMCHAR(N/), NUMED(N/), OPTPRDG(Y/N), OPTPRER(N/Y),
OUTFILE(N/), PANVBUF(60K/), PDSREPL(N/), PGLINER(55/), PGLINES(55/),
PROGMOD(XREFREF, CONVENTIONAL, EXP/XREFA), PRICTRS(N/), PRIZERO(N/), QLF(N/), RANDMPCCT(N/),
RDYONLY(N/), RESRWD(N/), RETCODE(Y/), RPTASA(N/), RPTEDNM(SYS280R/), RPTXPRG(N/),
SORTDEV(SYSDA/), SORTIDN(N/), SORTMEM(36K, 100K, 700K, 100K/100K, 500K, 1000K, 500K),
SORTNAM(SORT/), SSMASK(N/), STRUCGO(N/), SUBRADD(Y/), SUPCOEW(Y/), SUPRESQ(N/), SUP182W(N/), SYSBLOK(N/),
TIMESEP(D/), VSAMCAT(Y/), VDUPABND(N/), VSAMMSG(N/), XREFS(N/), ZDITVAB(O/)
```

Considerations for Large Programs

This section provides some considerations for running very large programs and describes additional information for the four optional parameters: COMPWRK, GETMAX, FREEMEM, SORTMEM. The DYLINSTL macro defaults of COMPWRK=1500 KB, GETMAX=2500 KB, and FREEMEM=1000 KB are sufficient to run 99 percent of all VISION:Results programs. This topic applies to extremely large programs and programs that have large sort requirements.

COMPWRK

The DYLINSTL macro parameter, COMPWRK, provides an override of the VISION:Results execution-time work area and the VISION:Sixty compiler work area. Of the default 1500 KB value, 25 percent is reserved for internal tables. (For VISION:Results, this consists of the execution and report logic tables. For VISION:Sixty, this consists of D, T, and P parameter data.) The remaining 75 percent of the COMPWRK area is used for work areas, file tables, literals, labels, and so on.

Note: An insufficient allocation results in a DYL-012E error message. When the allocation error does occur, you can increase the value of COMPWRK and rerun the CUSTMJCL job to increase the value for the site, or change the value within the application.

To change the COMPWRK value in a specific program at execution time, use the PARM WA=nnn parameter specified on the JCL EXEC statement. The value specified by nnn is added to (or subtracted from) the value in COMPWORK. (PARM='WA=100' indicates that 100 KB will be added to COMPWRK.) The 25/75 percent split discussed for COMPWRK applies to the value as modified by WA=100.

The JCL EXEC PARM WA= is limited to 3 digits, so you can increase COMPWRK by 999 KB only. Using the JCL WA PARM and changing COMPWRK, and running CUSTMJCL are both required to increase the COMPWRK work area by more than 999 KB.

GETMAX, FREEMEM

GETMAX and FREEMEM control the amount of storage available to VISION:Results at program compilation time. The compiler allocates as much contiguous storage as possible up to a value of GETMAX and returns the amount of storage indicated by FREEMEM back to the operating system. FREEMEM should be increased if the operating system generates a storage allocation error that is not resolved by increasing the region size. However, using REGION=0 MB should prevent this problem.

Note: Very large programs can result in a DYL-997E error message if the GETMAX value is insufficient. If this error occurs, increase the value of GETMAX and rerun the CUSTMJCL job. The FREEMEM value does not need to be increased.

SORTMEM Considerations

Use the following values to reset DYLSORT sort memory size defaults.

Value	Description
MIN,MAX:	<p>SORT is provided with the largest contiguous amount of storage between these values. The default values are 36 KB for MIN and 100 KB for MAX.</p> <p>If nnnK is coded on the SORT statement (VISION:Results) or nnn is placed in columns 10 through 12 of the SORT control parameter (VISION:Sixty), nnn replaces the value of MAX. If this nnn value is less than MIN, it is ignored and MAX remains unchanged.</p> <p>If the MIN amount of storage is unavailable, a U500 ABEND is issued for VISION:Results. In VISION:Sixty, no sort is performed and ER is returned to the SORT control parameter in columns 1 and 2.</p>
COREMAX:	<p>VISION:Sixty, OPTION 260 only. If L is coded in column 10 of the SORT control parameter to exclude storage from SORT, SORT is provided with the largest amount of contiguous storage available between the values of MIN and COREMAX-<i>nnn</i> where <i>nnn</i> is the value from columns 11 through 12 of the SORT control parameter.</p> <p>If the available storage is less than MIN, or less than 24 KB if MIN is less than 24 KB, ER is returned in the SORT parameter list and no SORT is performed. This parameter keeps a minimum of 24 KB of the region unavailable to SORT. The default is 700 KB.</p>
RESETMX:	<p>This value re-establishes the value of MAX after the termination of SORT. The default is 100 KB.</p>

Additional Considerations for Extremely Large Programs

After adjusting COMPWRK/GETMAX to eliminate DYL-012E or DYL-997E errors, the program may abend with program checks using the LIST statement. If this occurs, take the following steps:

1. Separate the program into two requests.
2. Use PICNSAVE to capture those fields on which you want to report.
3. Move the LIST statements to the second request, where PICNSAVE data can be used.

Calling COBOL Programs

VISION:Results allows COBOL programs to be processed with the CALL statement. Before the COBOL program is invoked, VISION:Results will automatically establish the COBOL run-time environment. There are different COBOL run-time environments for VS COBOL II (includes VS COBOL) programs and LE COBOL programs, so the DYLINSTL macro parameter determines the COBOL run-time environment that VISION:Results will use for initialization.

The DYLINSTL macro parameter COBENV is used to initialize the VS COBOL II run-time environment. The DYLINSTL macro parameter LE is used to initialize the LE COBOL environment. These two DYLINSTL parameters are mutually exclusive. The DYLINSTL default is to have the LE parameter turned on and the COBENV parameter turned off. If you have programs that are exceptions to the general rule of your COBOL processing, use the OPTION statement in your program to override the DYLINSTL parameter settings.

Use of the automatic COBOL environment initialization requires that either the COBOL run-time library (if COBENV is being used) or the LE run-time library (if LE is being used) be available at program execution time either on a LINKLIST, STEPLIB, or JOBLIB statement.

Create Different Functional Versions of VISION:Results

To create different functional VISION:Results systems, create separate versions of DY LPCPS and place them in libraries other than your standard VISION:Results library. By creating different DY LPCPS modules and linking them into separate libraries, you can execute VISION:Results using the macro options specific to that version of DY LPCPS. Use the CUSTMJCL job to assemble DY LINSTL and create DY LPCPS.

You need to change the DSN in the SYSLMOD DD statement to the name of the alternate library containing DY LPCPS. When executing a VISION:Results program, you need to place the alternate DY LPCPS library before the standard VISION:Results library in the STEPLIB DD concatenation in your JCL.

Task 4C. Verify the Installation

To verify that VISION:Results was installed correctly, execute a VISION:Results program to test the modifications made to the VISION:Results procedure and the customized parameters, if any. Use the RE60TEST member in the installation source library to test the VISION:Results procedure, as shown in [Figure 14](#). RE60TVSM also is provided as a sample program to allow you to verify VSAM processing at your site.

```
//RE60TEST JOB ACCT-INFO, 'CA INC.', CLASS=0
//*
/* THE RESULTS PROC WAS PLACED IN YOUR PROCEDURE LIBRARY DURING
/* INSTALLATION. PLEASE ADD THE JCL NECESSARY TO PICK UP THIS
/* PROCEDURE AND THEN SUBMIT THE TEST. A RETURN CODE OF ZERO
/* INDICATES THAT RESULTS WAS INSTALLED CORRECTLY.
/*
//RUNTEST EXEC RESULTS
//SYSIN DD *
OPTION XREFPA QLF
FILE SYSIN CARDS
  CCENTER 4          (COST'CENTER)
  OFFNO 4           (OFFICE'NUMBER)
  EMPNO 6           (EMPLOYEE'NUMBER)
  EMPNAME 19        (EMPLOYEE'NAME)
  HDATE 6 NU D     (HIRE'DATE)
  SALCLASS 1        (SALARY'CLASS)
  JCLASS 4          (JOB'CLASS)
  LGRADE 1         (LABOR'GRADE)
  SEX 1            (S'E'X)
  MSTATUS 2        (MRT'ST)
  CRATE 6 NU 2 E   (CURRENT'RATE)
  IDATE 6 NU D     (INCREASE'DATE)
  ITYPE 1          (INCR'TYPE)
  IAMT 5 NU 2 E   (INCREASE'AMOUNT)

WORKAREA
MESSAGE 20
  AVG 6 NU 2 E   (AVG'RATE)
  TALLY 4.0      (COUNT)

REPORT 4 BETWEEN

CONTROL OFFNO CCENTER

  LIST CCENTER OFFNO EMPNO EMPNAME HDATE SALCLASS JCLASS LGRADE
  SEX MSTATUS CRATE IDATE ITYPE IAMT

ON CHANGE IN OFFNO
  MOVE '* OFFICE TOTAL' TO MESSAGE
LST:
  AVG = SUM CRATE/TALLY
  LIST MESSAGE AT EMPNAME SUM CRATE SUM IAMT TALLY AVG
  WITH 2 AFTER

ON CHANGE IN CCENTER
  MOVE '** COST CENTER TOTAL' TO MESSAGE
  GOTO LST

ON FINAL
  MOVE '***GRAND TOTAL' TO MESSAGE
  GOTO LST

T1 'CA INC. SYSTEMS' WITH 1 AFTER
T2 WITH 1 AFTER
T3 'EMPLOYEE BY COST CENTER' WITH 2 AFTER
T1+1 'VISION:RESULTS EXAMPLE'
T1+106 'REPORT NUMBER EMPCOS-1A'
T2+106 'PERIOD ENDING'
T2+123 DYLDATE4
T3+106 'PAGE NUMBER'
T3+125 DYLPAGE7
```

Figure 14 RE60TEST Job (Page 1 of 2)

```

FIN
0E160087003471WOLF ROADRUNNER      060185B00363M03034100
0E160090003640TOTO R ROTO           041485A00412M01050000
0E160090004561TREBOR S ROBERT       101084B00413M04047500
0E160090004777SUDSY B SUGGINS       022280C00363F05021000
0E160155005601THOR VIKING           120183S00365M05031000060190110000
0E160155005678STANLEY YELNATS       060787S00365M02032500
0E160170005831GODFREY Q ZANE        070782D00394M02060000
0E160170005889ZAC Z ZOOK            112580U00394F03034000
0E160190004361LORAC B CARROLL       101081D00415F01036500120190202000
0E160190006451DUDLEY G DORIGHT      120184A00413M01047500
0E160190004411FANNIE FAIRWEATHER    080180S00415F01050000
0E160190005512GINGER A FIZZ         051781S00415F05029500
0E170155006636GUSSIE GASPARD        042785R00365F04030000
0E170087005961SPEEDBALL GONZALES    061480A00393M03060000083090105000
0E170087005212SEEMORE HORIZONS      090187D00363M03026500102590107500
0E170087004180BERNIE MILKTOAST      060680U00364M02015000
/*

```

Figure 14 RE60TEST Job (Page 2 of 2)

A JCLLIB statement pointing to the procedural library specified at the end of Task 4A may need to be added to the RE60TEST test program.

Task 4D. Install a Non-IBM COPY Facility (Optional)

VISION:Results provides an automatic interface to AllFusion® CA-Librarian® and AllFusion® CA-Panvalet® source libraries. The link edit to the interface module PAM for CA-Panvalet or FAIR for CA-Librarian is optional. These modules are included with your copy of that library system. These modules will be dynamically linked if they are present in a STEPLIB or linklist concatenation.

Link the Interfaces to CA-Panvalet and CA-Librarian

The following JCL links the interface to CA-Panvalet and CA-Librarian with VISION:Results. Select the link edit control statements for your library system.

```

//STEP01 EXEC PGM=IEWL,PARM='LET,LIST,XREF,NCAL',REGION=0M
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//LIBSYS DD DSN=your.lib.maint.load.library,DISP=SHR
//SYSLMOD DD DSN=YOUR.RESULTS.OPERATIONAL.LIBRARY,DISP=SHR
//SYSLIN DD *
LINK EDIT CONTROL STATEMENTS
/*

```

Figure 15 Linking Interface JCL

The CA-Panvalet link edit control statements are shown below.

```

INCLUDE LIBSYS(PAM)
INCLUDE SYSLMOD(DYL280P)
ENTRY DYL280P
NAME DYL280P(R)

```

If required, replace INCLUDE LIBSYS(PAM) with several INCLUDE statements. See the appropriate CA-Panvalet documentation.

Following are the CA-Librarian link edit control statements.

```
INCLUDE LIBSYS (FAIR)
INCLUDE SYSLMOD (DYL280L)
ENTRY DYL280L
NAME DYL280L (R)
```

If required, replace INCLUDE LIBSYS(FAIR) with several INCLUDE statements. See the appropriate CA-Librarian documentation. (Unresolved external references are acceptable when link editing the CA-Librarian interface.)

Increase Memory

VISION:Results allocates memory to allow for the COPY facility, if used. If you run out of memory when executing COPYP or COPYL, update the DYLINSTL parameters PANVBUF or LIBRBUF and reassemble and execute CUSTMJCL to link edit the DYLPCPS module. For details, see PANVBUF or LIBRBUF.

To calculate the amount of memory required:

1. Determine the size of the DYL280L or DYL280P load module.
2. Determine the block size of your CA-Librarian or CA-Panvalet master file.
3. Determine the required memory amount by adding at least one block to the size of the load module.

Task 4E. Install the COPYDB2 Facility (Optional)

Use the COPYDB2 facility in conjunction with VISION:Results Interface to DB2.

The COPYDB2 facility allows VISION:Results to extract column information for any DB2 table from the DB2 catalog. For each column, field definitions are copied into the VISION:Results program. For example, the following code causes the columns in the DB2 table, ARTABLE, to be defined as fields in the VISION:Results program.

```
WORKAREA
COPYDB2 ARTABLE
```

The default values for the system ID and plan name can be specified in the DYLINSTL macro using the CATSYS and CATPLAN parameters. After defining these parameters, assemble the DYLINSTL macro and link edit the resulting object module into the operational load library. The JCL procedure CUSTMJCL in the source library assembles and link edits the DYLINSTL macro. You can tailor this JCL procedure to fit your installation needs. For more information, see [Appendix A: DYLINSTL Macro](#) and [Run CUSTMJCL to Change the DYLINSTL Macro Parameters on page 46](#).

When executing a program after installing the DYLINSTL macro pertaining to COPYDB2, CA recommends using the COPYDB2A DD statement to define DB2 data parameters such as the system ID and plan name.

COPYDB2 Installation Using DB2INSTL

The JCL procedure DB2INSTL in the installation source library, YOUR.RESULTS.SOURCE.LIBRARY, installs the COPYDB2 facility. DB2INSTL precompiles, assembles, link edits, binds, and tests this facility. Replace the necessary library names and/or member names in the JCL procedure based upon your company standards.

The detailed DB2INSTL instructions are:

1. Change the job statement to reflect your company's JCL requirements. REGION=0M is recommended; REGION=1500K may be used as a minimum if 0M is not allowed.
2. Make the following changes to the default symbolic parameters in the DYLPROC procedure:
 - SYSDEV=* specifies the SYSOUT class for the printed output.
 - DSKDEV=SYSDA specifies the disk device class name used for work data sets (that is, 3380 or 3390).
 - DB2LOAD=YOUR.DB2.DSNLOAD specifies the name of the library that contains the IBM DB2 DSNLOAD library.
 - DYLOAD=YOUR.RESULTS.LOAD specifies the name of the load library that contains the VISION:Results operational library.
 - NEWLOAD=INTERFACE.DYNAMIC.LOAD specifies the name of the library that will contain the COPYDB2 load module, DYLCAT00. The same load library that contains the VISION:Results Interface to DB2 Dynamic product is recommended.
 - NEWOBJ=INTERFACE.DYNAMIC.OBJLIB specifies the name of the new object library created as part of your VISION:Results Interface to DB2 Dynamic installation.
 - SRCLIB=YOUR.RESULTS.SRCLIB specifies the name of the VISION:Results installation source library that contains DYLCAT00, the source program that handles the COPYDB2 function. The test program, DYLCATPG, should also reflect this library.
 - DBRMLIB=YOUR.DBRM.LIB specifies the name of the library that will contain the DBRM module generated by the precompile step.
 - DB2BIND=(0,NE) reflects running under the local DB2 server or running the standard DB2INSTL – STEP1 through STEP5. If binding to a remote DB2 server, then set to DB2BIND=ONLY.
 - MEMBER=DYLCAT00 is the program that will be precompiled, assembled, and link-edited to create the COPYDB2 facility.
 - DYLPORG=DYLCATPG is the test COPYDB2 program that verifies that the installation of the COPYDB2 facility was successful.
3. The test program DYLCATPG is provided to test the COPYDB2 facility. This program assumes that you have the IBM-provided standard sample tables distributed with DB2, specifically the employee table. The DYLCATPG program, provided in the VISION:Results installation source library, refers to this table in its unqualified format of EMP. The JCL provides a COPYDB2A override that you should use to specify the DB2 subsystem ID, plan name,

and authorization ID sample table qualifier. The JCL assumes your installation uses DB2 r6.1 and provides on the COPYDB2A the authorization ID used for that release. If you are on a different DB2 release, change the authorization ID. Also ensure that the DB2 subsystem ID name and plan name are correctly specified on the COPYDB2A in-stream record.

Note: COPYDB2 is not applicable on a RESTORE. It is during the FREEZE that the COPYDB2 is expanded and executed, creating all of the data fields from its corresponding table columns that it gets from the DB2 catalog.

4. To continue with this procedure, you must:
 - Have VISION:Results Interface to DB2 Dynamic installed.
 - Have already established a package or collection ID called DYLSQI.

The bind adds the DYLCAT00 program to the collection ID. DYLSQI is the only collection ID required for the COPYDB2 facility for the COPYDB2 to function. The rebinding of the plan is not required because DB2 automatically updates the plan. The statements to bind the package are on the STEP4.SYSTSIN override statement. Ensure that the subsystem ID name on the SYSTEM parameter and the DBRM library name on the LIBRARY parameter are correct for your installation. The DBRM library name should be the same one used on the DBRMLIB procedure parameter.

If remote DB2 processing is going to be used, then after running the standard DB2INSTL – STEP01 through STEP05, you will rerun the DB2INSTL job on each remote DB2 server, using the remote DB2 server operating system. The procedure parameters DB2LOAD and DBRMLIB reflect the libraries used for the remote DB2 server. The procedure parameter DB2BIND must be set to ONLY for remote DB2 processing. On the STEP4.SYSTSIN DD statement, set SYSTEM parameter to the remote DB2 subsystem ID, and set LIBRARY parameter to the same library used in DBRMLIB proc parameter. The job is set to run only STEP04. A rebind of the plan belonging to the local DB2 server is not required, because the collection ID name already exists as part of the plan package list.

To test whether the bind to the remote DB2 server was successful, rerun the DB2INSTL job, executing only STEP05 by using RESTART=DYLTEST.STEP5 on the JOB statement. Have all the procedure parameters set to the values used on the initial local DB2INSTL. For STEP05, you need to add the location ID of the remote DB2 server on the COPYDB2A override statement below. The location ID starts in position 28. DO NOT RUN THE OTHER STEPS.

5. Verify that the user ID submitting the job has the correct GRANT authority to access the tables.
6. Submit the job. [Figure 16](#) shows the DB2INSTL job in the installation source library.

```
//JOBNAME JOB ..... ,REGION=0M
//DYLPROC PROC SYSDEV='*',          * SYSTEM O/P SPOOLING
//      DSKDEV=SYSDA,              * SYSTEM DISK GENERIC
//      DB2LOAD='YOUR.DB2.DSNLOAD', * IBM DB2 LOAD LIBRARY
//      DYLOAD='YOUR.RESULTS.LOAD', * RESULTS LOAD LIBRARY
//      NEWLOAD='INTERFACE.DYNAMIC.LOAD', * INTERFACE DYNAMIC LOAD
//      NEWOBJ='INTERFACE.DYNAMIC.OBJLIB', * INTERFACE DYNAMIC OBJLIB
//      SRCLIB='YOUR.RESULTS.SRCLIB', * RESULTS INSTALL SOURCE
//      DBRMLIB='YOUR.DBRM.LIB',      * DB2 DBRM LIBRARY
//      DB2BIND='(8,LE)',            * LOCAL DB2 BIND
```

Figure 16 DB2INSTL Job (Page 1 of 3)


```

// *          DB2BIND='ONLY',                * REMOTE DB2 BIND
// *          MEMBER='DYLCAT00',            * PROGRAM MEMBER
// *          DYLPORG='DYLCATPG'           * RESULTS TEST PROGRAM
// *                                         NOTE: IT MUST CONTAIN AT
// *                                         LEAST ONE COPYDB2
// *                                         COMMAND IN IT.
// *****
// *
// *          THIS IS A SAMPLE JCL PROCEDURE FOR INSTALLING THE COPYDB2
// *          FACILITY. IT WILL DO THE PRECOMPILING, COMPILING,
// *          LINK-EDITING, BINDING, AND TESTING OF THIS FACILITY.
// *
// *          REPLACE THE NECESSARY LIBRARY NAMES AND/OR MEMBER NAMES
// *          IN THE JCL PROCEDURE BASED UPON YOUR COMPANY'S STANDARDS.
// *
// *****
// *
// *          STEP1 --- PRECOMPILE &MEMBER.
// *
// *****
// *
// *          STEP1 EXEC PGM=DSNHPC, COND=&DB2BIND,
// *          PARM='HOST(ASM),STDSQL(NO)'
// *          STEPLIB DD DSN=&DB2LOAD., DISP=SHR
// *          DBRMLIB DD DSN=&DBRMLIB. (&MEMBER), DISP=SHR
// *          SYSPRINT DD SYSOUT=&SYSDEV
// *          SYSTEM DD SYSOUT=&SYSDEV
// *          SYSUDUMP DD SYSOUT=&SYSDEV
// *          SYSUT1 DD SPACE=(800,(500,500),,ROUND), UNIT=&DSKDEV
// *          SYSUT2 DD SPACE=(800,(500,500),,ROUND), UNIT=&DSKDEV
// *          SYSCIN DD DSN=&&TEMP, DISP=(NEW,PASS), UNIT=&DSKDEV,
// *          SPACE=(800,(500,500))
// *          SYSIN DD DSN=&SRCLIB. (&MEMBER), DISP=SHR
// *
// *****
// *
// *          STEP2 --- COMPILE &MEMBER.
// *
// *****
// *
// *          STEP2 EXEC PGM=ASMA90, COND=&DB2BIND,
// *          PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))',
// *          TERM,'FLAG(NOCONT)')
// *          SYSPRINT DD SYSOUT=&SYSDEV, HOLD=YES
// *          SYSTEM DD SYSOUT=&SYSDEV, HOLD=YES
// *          SYSLIB DD DSN=SYS1.MACLIB, DISP=SHR
// *          DD DSN=SYS1.MODGEN, DISP=SHR
// *          SYSUT1 DD UNIT=(&DSKDEV,SEP=SYSLIB), SPACE=(CYL,(02,1))
// *          SYSPUNCH DD DUMMY
// *          SYSLIN DD DSN=&&TEMP2, DISP=(NEW,PASS), UNIT=&DSKDEV,
// *          SPACE=(TRK,(4,2)), DCB=BLKSIZE=800
// *          SYSIN DD DSN=&&TEMP, DISP=(OLD,DELETE)
// *
// *****
// *
// *          STEP3 --- LINK
// *
// *****
// *
// *          STEP3 EXEC PGM=IEWL, REGION=0M, COND=&DB2BIND,
// *          PARM='LET,LIST,XREF'
// *          SYSPRINT DD SYSOUT=&SYSDEV, HOLD=YES
// *          SYSLIB DD DSN=&NEWOBJ., DISP=SHR
// *          DD DSN=&DYLLLOAD., DISP=SHR
// *          DD DSN=&DB2LOAD., DISP=SHR
// *          SYSLMOD DD DSN=&NEWLOAD.(DYLCAT00), DISP=SHR
// *          SYSLIN DD DSN=&&TEMP2, DISP=(OLD,DELETE)
// *          DD DDNAME=SYSIN
// *
// *****
// *
// *          STEP4 --- BIND DYLCAT00
// *
// *****
// *
// *          STEP4 EXEC PGM=IKJEFT01, REGION=0M, COND=&DB2BIND, DYNAMNBR=20
// *          STEPLIB DD DSN=&DB2LOAD., DISP=SHR
// *          SYSPRINT DD SYSOUT=&SYSDEV, HOLD=YES
// *          DBRMLIB DD DSN=&DBRMLIB., DISP=SHR
// *****

```

Figure 16 DB2INSTL Job (Page 2 of 3)

```

/*
/*          STEP5 --- EXECUTE A TEST PROGRAM DYLPORG='DYLCATPG'          *
/*
/*
/******
//STEP5 EXEC PGM=DYL280,COND=&DB2BIND,
//          REGION=0M,TIME=(,30)
//STEPLIB DD DSN=&NEWLOAD.,DISP=SHR
//          DD DSN=&DB2LOAD.,DISP=SHR
//          DD DSN=&DYLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYS280R DD SYSOUT=&SYSDEV,HOLD=YES
//DYLDBUG DD SYSOUT=&SYSDEV,HOLD=YES
//SYSUDUMP DD SYSOUT=&SYSDEV,HOLD=YES
//SYS004 DD UNIT=DSKDEV.,SPACE=(CYL,(4),,CONTIG)
//SANPIT DD SYSOUT=&SYSDEV,HOLD=YES
//DSNTRACE DD SYSOUT=&SYSDEV,HOLD=YES
//COPYDB2A DD DUMMY
//ECONNECT DD DUMMY
//SYSIN DD DSN=&SRCLIB.(&DYLPORG),DISP=SHR
//          PEND
/*
//DYLTEST EXEC DYLPORG
/*
/* FOLLOWING BIND IS USED IF VISION:INTERFACE FOR DB2 4.0 OR
/* HIGHER IS BEING USED. BEFORE RUNNING DB2INSTL, YOU NEED TO
/* INSTALL VISION:INTERFACE FOR DB2 DYNAMIC RELEASE 4.0 OR HIGHER.
/* VISION:INTERFACE WILL BIND THE PLAN THAT COPYDB2 USES. COPYDB2
/* ONLY HAS TO BIND A PACKAGE. THE BINDING OF THE PLAN ONLY
/* NEEDS TO BE DONE ONCE SINCE THE COLLECTION ID NAME ALREADY
/* EXISTS AS PART OF THE PLAN'S PACKAGE LIST.
/*
/* NOTE: IF REMOTE DB2 PROCESSING IS GOING TO BE USED, THEN AFTER
/* RUNNING THE STANDARD DB2INSTL (STEP1 THRU STEP5), YOU WILL
/* NEED TO RERUN THE DB2INSTL JOB ON EACH REMOTE DB2 SERVER,
/* USING THE REMOTE DB2 SERVER'S OPERATING SYSTEM. THE
/* DB2LOAD PROCEDURE PARAMETER HAS TO REFLECT THE LIBRARY USED
/* FOR THE REMOTE DB2 SERVER. THE DB2BIND PROCEDURE PARAMETER
/* MUST BE SET TO 'ONLY' FOR REMOTE DB2 PROCESSING. ON THE
/* STEP4.SYSTSIN DD STATEMENT, SET SYSTEM PARAMETER TO THE
/* REMOTE DB2 SUBSYSTEM ID. THE JOB IS SET TO RUN ONLY STEP 4.
/*
/* TO TEST WHETHER THE BIND TO THE REMOTE DB2 SERVER WAS
/* SUCCESSFUL, RERUN THE DB2INSTL AGAIN EXECUTING ONLY STEP 5
/* BY USING 'RESTART=DYLTEST.STEP5' ON THE JOB STATEMENT. HAVE
/* ALL THE PROCEDURE PARAMETERS SET TO THE VALUES USED ON THE
/* INITIAL LOCAL DB2INSTL. FOR STEP 5, YOU WILL NEED TO ADD THE
/* LOCATION ID OF THE REMOTE DB2 SERVER ON THE COPYDB2A
/* OVERRIDE STATEMENT BELOW. THE LOCATION ID STARTS IN
/* POSITION 28. DO NOT RUN THE OTHER STEPS.
/*
//STEP3.SYXSIN DD *
//          ENTRY DYLCAT01
//          INCLUDE SYSLIB(DYLCAT01)
//          NAME DYLCAT00(R)
/*
//STEP4.SYXSIN DD *
//          DSN SYSTEM(DB2A)
//          BIND PACKAGE (DYLSQI) -
//          DYNAMICRULES (RUN) -
//          ACTION (REPLACE) -
//          LIBRARY ('YOUR.DB2.DBRMLIB') -
//          ISOLATION (CS) -
//          MEMBER (DYLCAT00)
//          END
/*
//STEP5.COPYDB2A DD *
//          DB2A DYLDB2 DSN8610
/*
//

```

Figure 16 DB2INSTL Job (Page 3 of 3)

COPYDB2 Installation Using DB2INST2

The JCL procedure DB2INST2 in the installation source library, YOUR.RESULTS.SOURCE.LIBRARY, allows the COPYDB2 facility to work with the Call Attach implicit connection. This job is optional, but it requires that VISION:Results Interface to DB2 Dynamic is installed. It also should be run only if implicit connection is required. Usage of the implicit connection does not prevent using the explicit connection, but to use the explicit connection, your program must have an ECONNECT DD statement present.

The DB2INST2 job assembles the source member called DYIMPCON, links this member to the DYLCAT00 load module, binds a plan and tests the implicit connection as to whether the DYIMPCON program is present or not. The DYIMPCON program alerts COPYDB2 to do an implicit connection, provided an ECONNECT DD statement is not present. The Call Attach implicit connection requires the user to code a DB2 DSNEXIT library which contains the DB2 subsystem to use in the program JCL. Implicit connection requires the plan name to be the same name as the DBRM module, which would be DYLCAT00. The bind step is setup to bind a DYLCAT00 plan.

Replace the necessary library and member names in the JCL procedure based upon your company standards. Following are the detailed DB2INST2 instructions.

1. Change the job statement to reflect your company's JCL requirements. REGION=0M is recommended; REGION=1500K may be used as a minimum if 0M is not allowed.
2. Make the following changes to the default symbolic parameters in the DYLPROC procedure:
 - SYSDEV=* specifies the SYSOUT class for the printed output.
 - DSKDEV=SYSDA specifies the disk device class name used at your installation for work data sets (that is, 3380 or 3390).
 - DB2LOAD=YOUR.DB2.DSNLOAD specifies the name of the library that contains IBM DB2 DSNLOAD library.
 - DYLOAD=YOUR.RESULTS.LOAD specifies the name of the VISION:Results operational library.
 - NEWLOAD=INTERFACE.DYNAMIC.LOAD specifies the name of the library that contains the DYLCAT00 load module which DB2INSTL job created.
 - SRCLIB=YOUR.RESULTS.SRCLIB specifies the name of the VISION:Results installation source library that contains the test program, DYLCATPG, which tests whether the implicit connection was properly installed. This library also contains the DYIMPCON program, which alerts COPYDB2 that an implicit connection may be required.
 - DBRMLIB=YOUR.DBRM.LIB specifies the name of the library that contains the DBRM module generated by the precompile step.
 - DSNEXIT=DB2.DB2A.DSNEXIT specifies the DSNEXIT library that contains the DB2 subsystem that should be used for the implicit connection.

- MEMBER=DYLCAT00 is the program that will be re-linked with DYIMPCON to create the COPYDB2 facility.
 - DYLPORG=DYLCATPG is the test COPYDB2 program that verifies the installation of the COPYDB2 facility was successful.
3. STEP03 and its override statement, //STEP3.SYSTSIN, assume that VISION:Results Interface to DB2 Dynamic has been installed and a package or collection ID called DYLSQI has already been established. The bind adds the collection ID to the plan called DYLCAT00. DYLSQI is the only collection ID required for the COPYDB2 facility for the COPYDB2 to function. Ensure that the subsystem ID name on the SYSTEM parameter and the DB2 server location ID on the CURRENTSERVER parameter are correct for your installation.
 4. The test program DYLCATPG is provided to test the COPYDB2 facility. This program assumes that you have the IBM-provided standard sample tables distributed with DB2, specifically the employee table. The DYLCATPG program, provided in the VISION:Results installation source library, refers to this table in its unqualified format of EMP. The JCL provides a COPYDB2A override that you should use to specify the authorization ID sample table qualifier. The JCL assumes your installation uses DB2 r6.1 and provides on the COPYDB2A the authorization ID used for that release. Change the authorization ID if you are on a different DB2 release.
 5. Verify that the user ID submitting the job has the correct GRANT authority to access the tables.
 6. Submit the job. [Figure 17](#) shows the DB2INST2 job in the installation source library.

```
//JOBNAME JOB ..... ,REGION=0M
//*
//* FOLLOWING JOB ALLOWS A CALL ATTACH IMPLICIT CONNECTION TO
//* BE USED WITH COPYDB2.
//*
//DYLPROC PROC SYSDEV='*',
//      DSKDEV=SYSDA,
//      DB2LOAD='YOUR.DB2.DSNLOAD',
//      DYLOAD='YOUR.RESULTS.LOAD',
//      NEWLOAD='INTERFACE.DYNAMIC.LOAD',
//      SRCLIB='YOUR.RESULTS.SRCLIB',
//      DBRMLIB='YOUR.DBRM.LIB',
//      DSNEXIT='DB2.DB2A.DSNEXIT',
//      MEMBER='DYLCAT00',
//      DYLPORG='DYLCATPG'
//*
//* SYSTEM O/P SPOOLING
//* SYSTEM DISK GENERIC
//* IBM DB2 LOAD LIBRARY
//* RESULTS LOAD LIBRARY
//* INTERFACE DYNAMIC LOAD
//* RESULTS INSTALL SOURCE
//* DB2 DBRM LIBRARY
//* DB2 DSNEXIT LIBRARY
//* PROGRAM MEMBER
//* RESULTS TEST PROGRAM
//*
//* NOTE: IT MUST CONTAIN AT
//* LEAST ONE COPYDB2
//* COMMAND IN IT.
//*
//*****
//*
//* STEP1 --- ASSEMBLE IMPLICIT CONNECTION MEMBER
//*
//*****
//*
//STEP1 EXEC PGM=ASMA90,REGION=0M,
//      PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))',
//      TERM,'XREF(FULL)')
//SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
//SYSUT1 DD UNIT=SYSDA,SPACE=(TRK,(1,1))
//SYSPRINT DD SYSOUT=*
//SYSLIN DD DSN=&&TEMP2,DISP=(MOD,PASS),
//      UNIT=SYSDA,SPACE=(TRK,(1,1)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SYSPUNCH DD DUMMY
//SYSTEM DD SYSOUT=*
```

Figure 17 DB2INST2 Job (Page 1 of 2)

```

//SYSIN DD DSN=&SRCLIB.(DYIMPCON),DISP=SHR
//*****
//*
//* STEP2 --- RELINK DYLCAT00 MODULE *
//*
//*****
//STEP2 EXEC PGM=IEWL,REGION=0M,COND=(0,NE),
// PARM='LET,LIST,XREF'
//SYSLIB DD DSN=&NEWLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSLMOD DD DSN=&NEWLOAD.(&MEMBER),DISP=SHR
//SYSLIN DD DSN=&&TEMP2,DISP=(OLD,DELETE)
// DD DDNAME=SYSIN
//*****
//*
//* STEP3 --- BIND DYLCAT00 *
//*
//*****
//STEP3 EXEC PGM=IKJEFT01,REGION=0M,COND=(0,NE),DYNAMNBR=20
//STEPLIB DD DSN=&DB2LOAD.,DISP=SHR
//SYSTSPRT DD SYSOUT=&SYSDEV,HOLD=YES
//DBRMLIB DD DSN=&DBRMLIB.,DISP=SHR
//*****
//*
//* STEP4 --- EXECUTE A TEST PROGRAM DYLPORG='DYLCATPG' *
//*
//*****
//STEP4 EXEC PGM=DYL280,REGION=0M,TIME=(2),COND=(0,NE)
//STEPLIB DD DSN=&NEWLOAD.,DISP=SHR
// DD DSN=&DSNEXIT.,DISP=SHR
// DD DSN=&DB2LOAD.,DISP=SHR
// DD DSN=&DYLLLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYS280R DD SYSOUT=&SYSDEV,HOLD=YES
//DYLDBUG DD SYSOUT=&SYSDEV,HOLD=YES
//SYS004 DD UNIT=DSKDEV.,SPACE=(CYL,(4),,CONTIG)
//SANPIT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSUDUMP DD SYSOUT=&SYSDEV,HOLD=YES
//ABNLIGNR DD DUMMY
//DSNTRACE DD SYSOUT=&SYSDEV,HOLD=YES
//COPYDB2A DD DUMMY
//SYSIN DD DSN=&SRCLIB.(DYLPORG),DISP=SHR
// PEND
//*
//DYLLINK2 EXEC DYLPORG
//STEP2.SYSIN DD *
ENTRY DYLCAT01
INCLUDE SYSLIB(DYLCAT00)
NAME DYLCAT00(R)
//STEP3.SYSTSIN DD *
DSN SYSTEM(DB2A)
BIND PLAN(DYLCAT00) PKLIST(*.DYLSQI.*) -
ACTION (REPLACE) RETAIN -
DYNAMICRULES (RUN) -
ISOLATION (CS) -
CURRENTSERVER (LOCATION ID)
END
//*
//STEP4.COPYDB2A DD *
DSN8610
//

```

Figure 17 DB2INST2 Job (Page 2 of 2)

Task 4F. Execute VISION:Sixty from VISION:Results (Optional)

VISION:Results users who also have an LMP license for VISION:Sixty can execute their VISION:Sixty programs using the VISION:Results operational library. Use the same JCL you have been using for your VISION:Sixty programs except your VISION:Results operational library DSN is coded on the STEPLIB or JOBLIB.

VISION:Results users can also use OPTION 260 to run their VISION:Sixty programs, provided they do the following:

1. Code OPTION 260 as the first statement in the VISION:Sixty program.
2. Besides coding the VISION:Results operational library on the STEPLIB or JOBLIB, specify PGM=DYL280 on the EXEC statement. Otherwise, the rest of the JCL must be JCL required for VISION:Sixty.

Note: Your company must be licensed to use VISION:Sixty. In all these scenarios, the mandatory DYLINSTL parameter, PRODUCT, is set to II.

Use LE/370 COBOL and SORT in VISION:Sixty

If you want to use the DYLINSTL parameter COBENV=Y to automatically start the COBOL II environment and your VISION:Sixty program calls a COBOL II subroutine and uses the SORT command, you must make the following change to your VISION:Sixty source program.

A new enter linkage D parameter to DYLSORT must be coded to pass a SORT control statement with an I between the S and the record length specification. If your SORT control statement is:

```
'S 00352 F (4,7,CH,A)'
```

change it to:

```
'SI00352 F (4,7,CH,A)'
```

Execute the new enter linkage statement to DYLSORT before any existing enter linkage for DYLSORT or your COBOL subroutine. The COBENV specification causes the first DYLSORT enter linkage to establish the COBOL environment without passing any records to SORT, and it replaces the I in the SORT control statement with a blank.

For automatic invocation of LE, use the DYLINSTL parameter LE=Y instead of COBENV=Y. None of the additional changes to the sort control card are required.

VISION:Sixty Considerations

VISION:Sixty fields are available that support a four-digit year format and century specification.

To use the following VISION:Sixty fields, you must copy member SIXTY4YR from YOUR.RESULTS.SOURCE.LIBRARY into your VISION:Sixty source program.

The copied code must be placed immediately prior to the first D parameter in the program and must immediately follow an L parameter for any field in the reformat (or a file work) area code. The SIXTY4YR copy code consists of L parameters defining 57 bytes of storage and one D parameter. The D parameter must be the first D parameter in the program, and it performs an enter linkage to subroutine DYL4INIT to initialize the fields defined in the L parameters.

Figure 18 shows the contents of SIXTY4YR.

```

-----1-----2-----3-----4-----5-----6-----+
L 004*   PJDT4           *   JULIAN DATE - 4 DIGIT YEAR
L 005*   PPDT4           *   GREGORIAN DATE - 4 DIGIT YEAR
L 032*   CLDT4           *   EDITED 4 DIGIT YEAR DATE & PAGE
L 010*-26 CEDT4         *   EDITED 4 DIGIT YEAR DATE
L 002*   CCEN1           *   CENTURY 1 PREFIX
L 002*   CCEN2           *   CENTURY 2 PREFIX
L 010*   CCENWRK        *   4DIGIT WORKAREA
L 002*   CVQ%#%$00     VX'4040'
D 1001 DYL4INIT'      EL   JDT4

```

Figure 18 SIXTY4YR

- The JDT4 and PDT4 fields contain the four-digit date in packed decimal in Julian and Gregorian format, respectively.
- LDT4 contains the edited four-digit date and page number, and EDT4 contains the edited four-digit date.
- To tell the system which century to use when dealing with two-digit year formats, use CEN1 and CEN.

Detailed definitions for these fields can be found in the *Advantage VISION:Results for z/OS Reference Guide* under DYLJULIAN4, DYLGREG4, DYLDATEPG4, DYLDATE4, DYLCENTRY1, and DYLCENTRY2, respectively.

To override the DYLINSTL macro default for the currency symbol (CURRENCY), the VQ%#%\$00 field is provided. It is a two-byte field initialized to blanks (X'4040'). To override the default, change the initial value of the L parameter so that the first hexadecimal digit has a value of X'FF' and the second digit is the hex value of the substitute currency symbol. For example, to set the currency symbol to ?, change the L parameter initial value to X'FF6F'.

Task 4G. Connect VISION:Results Interface to DB2 (Optional)

VISION:Results Interface to DB2 is a separately licensed product. To connect, you must have the following parameters (along with any other customizing parameters you are using) in the DYLINSTL macro:

- DYLVARP=Y
- SQLIFIF=Y
- SUPRESQ=Y
- DB2DEC9=Y

If you access your DB2 database using dynamic SQL, also add the DB2PLAN and DB2SYS parameters. Go to the CUSTMJCL member in the installation source library and add these parameters to all your other parameters. Then, run the CUSTMJCL job with all your customizing DYLINSTL parameters, resulting in a new DYLPDPS module within your VISION:Results operational library.

There are other DYLINSTL parameters used by the VISION:Results Interface to DB2, but they are optional. See [Appendix A: DYLINSTL Macro](#) to determine whether or not to include them. The parameters are discussed in the *Advantage VISION:Results Interface to DB2 Reference Guide*.

Task 4H. Connect VISION:Results Interface to CA-IDMS/DB (Optional)

Advantage™ VISION:Results® Interface™ to CA-IDMS/DB is a separately licensed product. To connect, set the parameter DECIML9=W or DECIML9=S in the DYLINSTL macro. VISION:Results then accepts COBOL fields with more than nine digits to the right of the decimal point. VISION:Results continues processing because it recognizes a warning condition instead of an error condition.

Go to the CUSTMJCL member in the installation source library and add these parameters to all your other parameters. Then, run the CUSTMJCL job with all your customizing DYLINSTL parameters, resulting in a new DYLPAPS module within your VISION:Results operational library.

Task 4I. Review and Customize Installation Source Library

Review the dataset, YOUR.RESULTS.SOURCE.LIBRARY and customize where needed. For an explanation and sample of each member, see [Appendix D: Installation Copy and Source Members](#).

Task 4J. Run VISION:Results

To run your VISION:Results system you need the following:

- JCL JOB Statement—Use an installation standard JCL JOB statement
- RESULTS JCL Procedure—Use the VISION:Results JCL procedure that has been tailored and copied into your procedural library. This procedure contains all of the JCL required to run your VISION:Results programs.
- Input and Output Files—Add any input and output files after the EXEC statement. For example, the test data files that come with VISION:Results would be coded in the JCL as follows:

```
//TEST EXEC RESULTS
//ARFILE DD DSN=YOUR.RESULTS.DEMOFILE,DISP=SHR
//SYSIN DD *
/*
```

- VISION:Results Program—The SYSIN DD statement contains the VISION:Results program commands that are to be executed. The program can be in-stream, as shown above, or it can be allocated to a data set.

Chapter 4: Performing Maintenance and Support

This chapter describes the maintenance and support procedures required for VISION:Results.

Program Temporary Fix (PTF)

A PTF is a patch or a complete load module replacement that is developed to fix any problem in a product and maintain the product.

PTFs can resolve the following two types of problems:

- The first type is caused by program flaws in the product and should be applied by all users and all systems in order to keep the VISION:Results system up-to-date.
- The second type is caused by a user's system or environment having been modified or enhanced, such as during the addition of software from other third-party vendors. These PTFs should be applied only if your system fits the criteria causing the problem.

USERMOD

A USERMOD is a patch or a complete load module replacement that has special customizations to the product and does not apply to all sites. USERMODs are special modifications that are designed for unique situations in which the user is requesting a modification or customization to the product. Apply USERMODs only if the customization to the product fits your specific system and environment. Always review the USERMOD description carefully before applying it to a system.

Numbering System

PTFs are numbered in sequence as they are developed for each release, beginning with 60001. USERMODs are numbered in sequence beginning with 60401. PTFs and USERMODs are identified by component and number using the format shown in the example below.

Example

CCNNNN where:

CC is the Component Identifier:

RS	VISION:Results
SX	VISION:Sixty

NNNN is the Modification Number Identifier:

60001 to 60200	numbers assigned to PTFs, general patches
60201 to 60400	numbers assigned to PTFs, special patches
60401 to 60600	numbers assigned to USERMODs

For instance, if the first VISION:Results PTF is assigned as RS60001, then a customizing change is considered a USERMOD, and the first one is assigned as RS60401.

An explanation is provided for each PTF and USERMOD. Review the description of any customizing PTF or USERMOD you are considering for your system. If you have any questions or concerns, or if you just need more information about a PTF or USERMOD, contact Technical Support at <http://ca.com/support>.

Maintenance—Installing PTFs and USERMODs

The installation SMP/E library contains the jobs for performing the various maintenance activities. The member names and their functions are shown below. The delivered JCL for these members is shown in [Appendix C: Sample SMP/E JCL](#).

Member Name	JCL Example	Function
ZACCEPT	Figure 21 on page 110	Accept a PTF or USERMOD into distribution library
ZAPPLY	Figure 22 on page 110	Apply a PTF or USERMOD into the target library
ZCOPY	Figure 23 on page 111	Copy the target library to a VISION:Results test library
ZRECEIVE	Figure 24 on page 112	Receive a PTF or USERMOD into the global zone and libraries
ZREFRESH	Figure 25 on page 113	Refresh the VISION:Results operational library with the latest PTFs and USERMODs from the distribution library
ZREJECT	Figure 26 on page 115	Reject (remove) a PTF or USERMOD from the global zone and libraries
ZRESTORE	Figure 27 on page 115	Restore (remove) a PTF or USERMOD from the target library

SMP/E Process for PTFs and USERMODs

All PTFs and USERMODs are installed to VISION:Results under the control of SMP/E. The SMP/E process for handling PTFs and USERMODs has the following basic steps:

1. Save all PTFs and USERMODs to the installation SMP/E library, YOUR.RESULTS.SMPCNTL. The PTF or USERMOD name should be the member name that is saved in the SMP/E library.
2. Use the RECEIVE command to record and save the PTF or USERMOD into the global zone. Edit and run the ZRECEIVE member in the SMP/E library.
3. Use the APPLY command to install the PTF or USERMOD to the target library. Edit and run the ZAPPLY member in the SMP/E library. After the first patch is applied, a condition code of 0004 is acceptable. When subsequent patches are applied, the following warning messages are expected:

```
GIM38201W  THERE IS A MODID ERROR FOR ZAP ENTRY PRTPCP IN SYSMOD RS60nnn.
GIM38201W  THERE IS A MODID ERROR FOR ZAP ENTRY DYL280V IN SYSMOD RS60nnn.
```

4. Test the PTF or USERMOD that is applied in the target library. Do not run any customization jobs, such as the DYLINSTL macro's CUSTMJCL job, to the target library. If customization is required, copy the target library to a test library, and then run the customization jobs to the test library. Edit and run the ZCOPY member in the SMP/E library to create the test library, and then run the customization jobs.

If the PTF or USERMOD testing was *unsuccessful*, then do the following:

5. Use the RESTORE command to remove a PTF or USERMOD from the SMP/E target library. Edit and run the ZRESTORE member in the SMP/E library.
6. Use the REJECT command to remove a PTF or USERMOD from the global zone. Edit and run the ZREJECT member in the SMP/E library.

If the PTF OR USERMOD testing was *successful*, then do the following:

7. Use the ACCEPT command to install the PTF or USERMOD to the distribution library. Edit and run the ZACCEPT member in the SMP/E library. After the first patch is applied, a condition code of 0004 is acceptable. When subsequent patches are applied, the following warning messages are expected:

```
GIM38201W   THERE IS A MODID ERROR FOR ZAP ENTRY PRTPCP IN SYSMOD RS60nnn.  
GIM38201W   THERE IS A MODID ERROR FOR ZAP ENTRY DYL280V IN SYSMOD RS60nnn.
```

8. Refresh the VISION:Results operational library with the latest PTF or USERMODs that is in the updated SMP/E distribution library. Edit and run the ZREFRESH member in the SMP/E library.

Note: You do not need to run your customization jobs after running the ZREFRESH job.

When installing PTFs or USERMODs, there may be some time between using the APPLY command to the SMP/E target library and the ACCEPT command to the SMP/E distribution library. You should take this time to evaluate whether the PTF or USERMOD satisfies the need for your system. If you decide that it is not appropriate, you can use an SMP/E RESTORE command to remove the APAR from the target library. Additionally, you can use an SMP/E REJECT command to remove the PTF or USERMOD from the global zone.

Note: After you issue an ACCEPT command to the distribution library for a PTF or USERMOD, there is no direct method for restoring the previous versions of the distribution and target libraries.

Support—Problem Reporting

For problem resolution, contact Technical Support at <http://ca.com/support>. Be prepared to provide details concerning what actions were being performed at the time the problem occurred. Please send us the complete output. In some cases, a complete SYSUDUMP taken at the time the problem occurred may be needed to help determine the reason for the error. Any information about recreating the problem is very useful.

User Code

The extensive error checking and data validation techniques built into the VISION:Results product ensure processing integrity. However, our product has no capacity for determining the integrity of third-party or user-written code incorporated into the application and called as subroutines. Consequently, an error in user code could cause system failure.

Determining the true cause of errors within user code is not easy, can be time consuming, and can significantly increase the cost of maintaining these systems.

As a courtesy, CA works with the customer to help discover where the problem might exist in the user code. After the nature of the problem in the user code has been determined, it is the responsibility of the customer to make the corrections.

Appendix A: DYLINSTL Macro

The DYLINSTL macro establishes the operating environment for the installation of VISION:Results. It contains both mandatory and optional parameters.

Mandatory Parameters

The mandatory parameters establish the operating environment and product being installed.

Default values are provided for all DYLINSTL parameters that will satisfy most installation requirements. However, if any optional parameters are changed, or the installation process will fail, you must specify mandatory parameters, PRODUCT and ENVIRON. If this happens, an Assembler MNOTE error of level 12 is generated with a descriptive message. The return code for the assembly is set to 12, and the macro generation is aborted. If you receive error messages, make the corrections indicated and run the DYLINSTL macro assembly again. The mandatory parameters are:

Parameter	Options	Description
PRODUCT	II	Product being installed is VISION:Results.
	60	Product being installed is VISION:Sixty. For example, PRODUCT=II. Note: 60 only should be specified when the VISION: 60 loadlib is specified in the JCL. This is not needed when the VISION:Results loadlib is used.
ENVIRON	MVS	Operating system is z/OS or CMS. If the execution-time environment is different from what is specified in this parameter, unpredictable results occur.
	VSE DOSVS	Operating system is any VSE system prior to DOS/VSE SP 2.1.
	VSE2.1 DOS2.1	Operating system is any VSE system that is DOS/VSE SP 2.1 or later. For example, ENVIRON=VSE2.1.

Optional Parameters

The optional parameters change the default values for selected VISION:Results compiler options. Some of the options apply only to specific products while others are valid only on certain operating systems.

Some optional parameters may be overridden at execution time using the OPTION command. For more information about the OPTION command, see the *Advantage VISION:Results for z/OS Reference Guide*.

The optional parameters are validated and applied to the requested operating system environment. If the values are not accepted, the installation may not automatically terminate. An Assembler MNOTE error level of 4 or 8 is generated with a descriptive message:

- Level 4 indicates that the specified parameter, in the message text, is not available for the product being installed; the parameter is ignored.
- Level 8 indicates that the specified parameter has an invalid or null value, or is invalid for the specified operating system. The message text indicates what action is taken (ignore, truncate, assign a default value, and so on).

If you receive error messages, correct the errors and repeat the macro assembly.

Following are descriptions of the optional parameters. Column heading Prod/Env indicates the combination of products and operating systems in which the parameter is valid.

Prod	Description
A	Valid for all values of the PRODUCT keyword.
II	Valid for VISION:Results.
60	Valid for VISION:Sixty.

Env	Description
A	Valid for all values of the ENVIRON keyword.
O	Valid for z/OS and CMS only.
D	Valid for all releases of DOS or DOS/VSE, prior to DOS/VSE SP 2.1.
M	Valid for VSE/ESA at DOS/VSE SP r2.1 and later only.

Parameter	Prod/ Env	Options	Description
ASALINE	I/ O	Y	<p>Omits the extra line that is generated at the beginning of a REPORT when the ASA keyword is coded on the REPORT statement. The default is N.</p> <p>For example, ASALINE=Y.</p>
BATCHIQ	I/ O	name	<p>Specifies an alternate load module name (maximum of eight characters) for the IQ Batch – Results bridge. The default is IIBATCH.</p> <p>For example, BATCHIQ=MYNAME.</p>
CATPLAN	I/ O	name	<p>For COPYDB2 only. Provides a replacement name (maximum of eight characters) for the DB2 plan name in the DB2 catalog. The default is DYLDB2.</p> <p>For example, CATPLAN=MYPLAN.</p> <p>This parameter was originally called D2PLNID and is still valid under that name. However, whichever name is used, CATPLAN will print on the DEFAULT OPTIONS SELECTED page of the VISION: Results output.</p>
CATSYS	I/ O	name	<p>For COPYDB2 only. Provides a replacement name (maximum of eight characters) for the DB2 subsystem ID in the DB2 catalog. The default is DB2A.</p> <p>For example, CATSYS=DB2T.</p> <p>This parameter was originally called D2SYSID and is still valid under that name. However, whichever name is used, CATSYS will print on the DEFAULT OPTIONS SELECTED page of the VISION: Results output.</p>

Parameter	Prod/ Env	Options	Description
CBXSIGN	I/ O	Y	<p>Allows the compiler to process COBOL data definitions containing the SIGN IS SEPARATE clause by increasing the size from the PIC clause by 1 to accommodate the sign, and storing the definition as a CH (character) field. No arithmetic operations are allowed. The default is N, which continues to allocate the size defined in the PIC clause and not account for the additional byte for the external size.</p> <p>For example, CBXSIGN=Y.</p>
CDLOAD	A/ M	Y	<p>Instructs the compiler to use the CDLOAD facility, rather than LOAD, for user programs referenced in a CALL statement. This allows the SIZE information on the CALL to be omitted. OPTION NOCDLOAD, or specifying NOCDLOAD in the CALL statement, overrides this parameter. The default is N.</p> <p>For example, CDLOAD=Y.</p> <p>WARNING! If a called subroutine uses storage beyond the end of the CSECT and relies on the compiler to reserve space using the size (nK) on the CALL, do not load that subroutine with CDLOAD. The VISXLOAD table and the macros for updating it, VISXLOAD and VISXEND, are provided to contain the names of any subroutines that should not use CDLOAD.</p> <p>For more information about the CALL Command, see the <i>Advantage VISION: Results for z/OS Reference Guide</i>.</p>

Parameter	Prod/ Env	Options	Description
CENTNEW	A/ A	nn	<p>For Advantage™ VISION:Excel™subroutines DYLBETDT, DYLDATE, DYLFMTJG, and DYLSELDT only. Determines the century prefix for a 2-digit date field. It is also used by VSE systems (prior to 2.1) for determining the run-date century. If the 2-digit date field is less than CENTNEW, a value of 20 is used for the century prefix in 4-digit year calculations. Otherwise, 19 is used. For VSE systems prior to 2.1, this parameter sets the run-date century in DYLDATE4, DYLGREG4, DYJULIAN4, and DYLDATEPG4. The default is 75.</p> <p>For example, CENTNEW=70 (2-digit date fields between 00 and 69 are prefixed with 20; for example, 2069).</p>
CENTRY1	A/ A	nn	<p>For VISION:Excel subroutines DYLBETDT, DYLDATE, DYLFMTJG, and DYLSELDT that deal with one or two dates as input. Provides a century prefix for the first (or only) input date. Values can be any numeric value from 00 to 99. The default is blank (use CENTNEW). Override at execution time by moving a value to the DYLCENTRY1 reserved word.</p> <p>For example, CENTRY1=19.</p>
CENTRY2	A/ A	nn	<p>For VISION:Excel subroutines DYLBETDT, DYLDATE, DYLFMTJG, and DYLSELDT that deal with two dates as input. Provides a century prefix to be used for the second input date. Values can be any numeric value from 00 to 99. The default is blank (use CENTNEW). Override at execution time by moving a value to the DYLCENTRY2 reserved word.</p> <p>For example, CENTRY2=20.</p>
COBAPOS	11/ A	N	<p>Specifies how two consecutive apostrophes coded on a COBOL VALUE clause are stored. Y stores them as a single apostrophe and N stores them as two apostrophes. This can be overridden using OPTION COBAPOS or NOCOBAPOS. The default is Y.</p> <p>For example, COBAPOS=N.</p>

Parameter	Prod/ Env	Options	Description
COBEDIT	II/ A	-, B, E, F, G, H, J, K, L, Q, U, W, X, Y, Z	<p>Changes the default edit code for numeric fields defined in COBOL data definitions from A to some other value. The valid options are listed. To request a COBOL edit code of (blank), enter a minus sign (-) as the COBEDIT option. The default is A.</p> <p>For example, COBEDIT=E.</p>
COBENV	A/ O	Y	<p>Establishes the COBOL II or LE/370 run-time environment for each VISION:Results request, treating all called COBOL programs as subroutines. This parameter preserves the environment whether or not the SORT command is used in the request. The default is N.</p> <p>For example, COBENV=Y.</p> <p>If COBENV=Y, then the DYLINSTL parameter LE must be set to N. The parameters must be coded in the order: LE=N, COBENV=Y. If they are not in this order, COBENV=Y will be ignored by the DYLINSTL macro assembly job (CUSTMJCL).</p>
COB2NR	A/ O	Y	<p>Allows proper execution when calling COBOL II subroutines compiled with the NORES option. Because the COBOL run-time library is not used in a NORES application, specifying COB2NR overrides the COBENV automatic environment option. Specifying COB2NR on the OPTION statement will override a DYLINSTL-specified COBENV for a given program. The default is N.</p> <p>For example, COB2NR=Y.</p>
COMPERR	A/ O,M	Y	<p>If there is a compiler error, overrides the USER 4 ABEND (AB=0004) with a RETURN CODE 4 (RC=0004) instead. The default is N.</p> <p>For example, COMPERR=Y.</p>

Parameter	Prod/ Env	Options	Description
COMPWRK	A/ O	nnnn	<p>Changes the default compiler work area size. The value specified is a decimal unit of 1024 bytes (1 KB) and cannot be less than 16 nor more than 9999. Code only the decimal number; do not code the K. The default is 1500 KB.</p> <p>An insufficient size can result in a DYL-012E error message. (See <i>Advantage VISION:Results for z/OS Messages and Codes.</i>)</p> <p>For example, COMPWRK=2000.</p>
CONDBUF	I/ D,M	nnnn	<p>Increases the default of 60 KB of memory for the COPYC (CONDOR) interface and I/O buffers. The value specified is a decimal unit of 1024 bytes (1 KB) and cannot be more than 9999. Code only the decimal number; do not code the K.</p> <p>For example, CONDBUF=999.</p>
CPYSBLB	I/ D,M	C	<p>Changes the default member type used in the COPY command from D to C.</p> <p>For example, CPYSBLB=C.</p>
CURNCY	A/ A	a, C'a', X'nn'	<p>Specifies the symbol used with the floating currency edit codes (F, G, K, H, J, L). The value can be expressed as a valid alphanumeric character (a), as a character notation of a valid alphanumeric (C'a'), or as a hexadecimal expression (X'nn'). The default symbol is a dollar sign (\$).</p> <p>Override at execution time using OPTION keyword CURRENCY.</p> <p>For example, CURNCY = ?.</p>
DATATR	A/ A	N	<p>Disables or modifies the translation of data by the file print and error analysis functions. (VISION:Results and VISION:Sixty translate everything except letters, numbers, and some special characters, to spaces, which improves printer speed and readability of listings.) The main reason for disabling translation is to allow lowercase to print. The default is Y.</p> <p>For example, DATATR=N.</p>

Parameter	Prod/ Env	Options	Description
DB2DEC9	I/ O	Y	<p>For COPYDB2 only. Allows numeric fields produced by COPYDB2 statements to contain more than nine decimal digits, without generating error messages, by defining the data as character. Additional scaling or conversion must be done by the user for this data to be used in an arithmetic operation. The default is N.</p> <p>For example, DB2DEC9=Y.</p>
DB2ERR	I/ O	N	<p>For VISION:Results Interface to DB2 (r4.0 or higher) only. Tells VISION:Results Interface to DB2 to check for SQLCODE errors. If it finds an error, then VISION:Results Interface issues an error message, executes a rollback, and quits the program.</p> <p>The default is Y. To override, use the EXEC SQL WHENEVER statement.</p> <p>For example, DB2ERR=N.</p>
DB2NULL	I/ O	Y	<p>For COPYDB2 only. Allows null indicator fields to be generated when used with COPYDB2.</p> <p>If a field can have a null value, then a 2-byte binary field with the same name plus a suffix of _IND follows. If the field's name is so large that the suffix cannot be added, then the null indicator field is not generated.</p> <p>The default is N.</p> <p>For example, DB2NULL=Y.</p>
DB2PLAN	I/ O	name	<p>For VISION:Results Interface to DB2—Dynamic (r3.5 or higher) only. Provides a replacement name (maximum of eight characters) for the DB2 plan name to be used for accessing the DB2 database using dynamic SQL. The default is DYLDDB2.</p> <p>For example, DB2PLAN=TSTDB2.</p> <p>This replaces obsolete parameter D2PLNID.</p>

Parameter	Prod/ Env	Options	Description
DB2SNGL	I/ O	Y	<p>For VISION:Results Interface to DB2—Dynamic (r4.0 or higher) only. Tells VISION:Results Interface to DB2 to check whether the embedded SELECT SQL statement retrieved more than one row. If it did, then VISION:Results quits with the following error message:</p> <p>DYLD021I (DYLSQLCODE = -9021) - MULTIPLE ROWS FOR EMBEDDED SELECT</p> <p>The default is N.</p> <p>For example, DB2SNGL=Y.</p>
DB2SYS	I/ O	name	<p>For VISION:Results Interface to DB2—Dynamic (r3.5 or higher) only. Provides a replacement name (maximum of eight characters) for the DB2 subsystem ID to be accessed using dynamic SQL. The default is DB2A.</p> <p>For example, DB2SYS=DB2T.</p>
DECIML9	I/ A	W S	<p>Forces nine decimal places and replaces the error message with a warning when there are more than nine digits to the right of the decimal point in a COBOL copybook field definition or in a field following the \$COBOL keyword.</p> <p>Same processing result. Suppresses the resultant warning message.</p> <p>The default is E.</p> <p>For example, DECIML9=S.</p>

Parameter	Prod/ Env	Options	Description
DELIM	I/ A	X'nn' C'c'	<p>Formats the print lines (with no carriage control, titles, or column headings, and with the DELIM character separating the columns) and generates the output to a data set rather than a printer. The data set can then be downloaded to a PC.</p> <p>Any character except blank (C' ' or X'40') is valid. There is no default.</p> <p>For example, DELIM=C'\$'.</p> <p>Override at execution time using REPORT keyword DELIM.</p> <p>For more information about using report statements, see the <i>Advantage VISION: Results for z/OS Reference Guide</i>.</p>
DLMFRST	A/ A	Y	<p>Allows the leading delimit character in the first printable position of a report file when using REPORT DELIM. The default is N, which suppresses the leading character in the first printable position of a report file when using REPORT DELIM.</p> <p>For example, DLMFRST=Y.</p>
DUPCBNM	I/ A	Y	<p>Allows duplicate data names for COBOL data definitions. Duplicate data names are allowed, but they cannot be referenced. The default is N.</p> <p>For example, DUPCBNM=Y.</p>
DYL4YR	A/ A	Y	<p>Prints a 4-digit year date on SYSPRINT or SYSLST for the program listing, and any PRINT, HEXPRINT, and so on, statements. It also sets the 4-digit year run date (DYLD4) in the report headings for OPTION USERDEFAULT. The default is N.</p> <p>For example, DYL4YR=Y.</p> <p>Override at execution time using OPTION keywords DYL4YEAR and NODYL4YEAR.</p>

Parameter	Prod/ Env	Options	Description
DYLVARP	I/ A	Y	<p>Allows the use of data names prefixed with DYLV. Required for VISION:Results Interface to DB2 and VISION:Results Interface to SQL/DS only. The default is N.</p> <p>For example, DYLVARP=Y.</p>
EDALIGN	A/A	Y	<p>Determines alignment of numeric fields formatted on a standard report print line.</p> <p>If EDALIGN is set to Y, then multiple list statements that have the same numeric field, but with different edit codes, will use the same right-justified alignment. The alignment is based on the first LIST statement. When the BETWEEN parameter on a REPORT statement either is not coded or coded with the value of 5, the alignment of numeric fields is right-justified and adjusted to fit between the previous and subsequent columns. When the BETWEEN parameter is coded with a value other than 5, the edit code alignments for numeric fields use approximately the same alignment that the default edit code (P edit code format) uses when EDALIGN=N. The value of the BETWEEN parameter should be adjusted according to the numeric field size to prevent overlapping or truncation between other report line columns. The EDALIGN parameter will not be in effect when Fixed Print Positioning (dataname AT ...) is used. When EDALIGN=N, the alignment for the edit codes are the same as they were on prior releases. The default of EDALIGN is N.</p> <p>For example, EDALIGN=Y.</p>
EDP1ZERO	A/ O	Y	<p>Modifies the edited output of edit code P for fields containing the value 0. The default is N, which produces a string of 0s. The setting EDP1ZERO=Y produces a single 0 for zero fields and also suppresses leading zeroes on non-zero fields.</p> <p>For example, EDP1ZERO=Y.</p>

Parameter	Prod/ Env	Options	Description
EDSUPR	A/ O	Y	<p>Suppresses the blank space appearing immediately before the decimal point for fields that contain a value less than 1 and are edited or listed using edit codes Y, F, G, K, X, H, J, L, U, or Q. The default is N.</p> <p>For example, EDSUPR=Y.</p>
EURODAT	A/ A	Y	<p>Changes the date default in all listings to European format (DD/MM/YY). The default is N.</p> <p>For example, EURODAT=Y.</p>
EURONUM	A/ A	Y	<p>Changes the editing for numeric fields to print in European format (1.000.436,33) rather than U.S. (1,000,436.33). The default is N.</p> <p>For example, EURONUM=Y.</p>
EXCEL	II/ A	Y	<p>Changes the default to OPTION EXCEL for VISION:Excel users. The default is N.</p> <p>For example, EXCEL=Y.</p>
EXCLPAT	II/ A	Y	<p>For VISION:Excel product. Instructs the compiler to print the VISION:Excel patch report for each request in the VISION:Excel jobs in the AUDPRINT dataset. The default is N, which suppresses the report.</p> <p>Override this parameter using the OPTION keywords EXCLPAT NOEXCLPAT.</p> <p>For example, EXCLPAT=Y.</p>
EXPRERR	A/ A	Y	<p>Prints the address of the first byte of each line of a FILE or REFORMAT area in hexadecimal in the left margin of the error analysis output. The offset (the last byte of each line) prints in decimal and hexadecimal in the right margin. The default is N.</p> <p>Override at execution time using OPTION keywords EXPRTERR or NOEXPRTERR.</p> <p>For example, EXPRERR=Y.</p>

Parameter	Prod/ Env	Options	Description
EXTEND	A/ D, M	N	Determines if reserved words DYLSYSDATE and DYLSYSPARM will be populated from the VSE communications region. Default is Y, which populates these fields. EXTEND should be set to N if called subroutines are used to access DL/I databases. For example, EXTEND=N (fields are blank).

Parameter	Prod/ Env	Options	Description
FREEMEM	11/ 0	nnnn	<p>Changes the amount of memory returned to the system during the compile phase. VISION: Results does a variable GETMAIN to obtain storage, and then returns the FREEMEM amount to the operating system for its use. The FREEMEM default value of 1000 KB will meet the needs of 99 percent of programs. Only in cases of extremely large programs is the default amount not enough. The value specified is a decimal unit of 1024 bytes (1 KB) of memory to be returned to the operating system. Code only the decimal number, with a maximum of 4 digits. The minimum value for FREEMEM is 6 and its maximum value is 9993 KB (equivalent to the maximum of GETMAX value minus 6). The default value is 1000 KB.</p> <p>Note: The default for GETMAIN storage can range from a minimum of 340 KB to a maximum of 9999 KB. The DYLINSTL parameters, COMPWRK and GETMAX, determine the GETMAIN storage that is obtained. The FREEMEM default value of 1000 KB is based on, and synchronized with, the default values of COMPWRK and GETMAX. If you decrease the value of COMPWRK and GETMAX from their defaults, you may have to decrease the value of FREEMEM accordingly. However, an increase of COMPWRK and GETMAX does not require an increase to FREEMEM unless the increase to COMPWRK and GETMAX is 4 times or higher than their defaults. This would be required for extremely large programs.</p> <p>VISION: Results does not ensure that it receives this amount of memory before issuing the FREEMEM. If you are running in too small a region, SA0A or SA78 freemain abends may result.</p> <p>For example, FREEMEM=8.</p>

Parameter	Prod/ Env	Options	Description
FREEZDD	A/ O	name	<p>Replaces the default ddname of SYS280FZ (VISION:Results) and SYS260FZ (VISION:Sixty) with a maximum of eight alphanumeric characters.</p> <p>For example, FREEZDD=MYFREEZE.</p> <p>The FREEZE ddname is always overridden by the FREEZDD parameter of the OPTION statement when you freeze a program.</p>
GETMAX	II/ O	nnnn	<p>Changes the default maximum GETMAIN value for the compile phase. The value requested is a decimal unit of 1024 bytes (1 KB), replacing the 2500 KB default. Code only the decimal number, a value between 340 and 9999.</p> <p>An insufficient size can result in a DYL-997E error message. (See <i>Advantage VISION:Results for z/OS Messages and Codes.</i>)</p> <p>For example, GETMAX=4000.</p>
KWDLT	II/ O	kw1... kwnn	<p>Specifies up to 20 (kw1 to kw20) reserved words that should not be considered keywords by VISION:Results. Allows use of existing programs containing data names that are not the same as the newly introduced keywords and may cause violation errors. The exempted words are itemized in the OPTIONS summary report. If OPTION \$\$KEYPLEVEL is coded in your program, DYL-12171 informational messages listing the disabled keywords are printed when parsing the first FILE statement. Omitting the KWDLT parameter keeps all distributed keywords in effect. The default is N.</p> <p>For example, KWDLT=(VOPEN,VCLOSE,VFILE)</p>

Parameter	Prod/ Env	Options	Description
LE	A/ A	N	<p>You can call subroutines written in any LE-compliant language, including COBOL, C, PL/I, FORTRAN, and Assembler. This includes IBM Language Environment (LE) Service Routines such as CEEDATE and CEEDAYS.</p> <p>This overrides the DYLINSTL parameter COBENV=Y. A warning message is produced if both are specified.</p> <p>The default is Y.</p> <p>For example, LE=N.</p> <p>Override at execution time using OPTION keywords LE NOLE.</p> <p>Programs frozen under releases prior to VISION:Results r5.0 must be refrozen using r5.0 or later for this parameter to take effect.</p>
LIBDLBL	II/ D,M	ddddddd	<p>Allows you to specify a value for the DLBL name of the AIIFusion® CA-Librarian® library. The default is MASTER.</p> <p>For example, LIBDLBL=MASTER2.</p>
LIBSYS	II/ D,M	nnn	<p>Allows you to specify a value for the system logical unit number for the CA-Librarian library. The default is 026.</p> <p>For example, LIBSYS=100.</p>
LIBRBUF	II/ A	nnnn	<p>Increases the default of 60 KB of memory for the COPYL (CA-Librarian) interface and I/O buffers. Specify the value as a decimal unit of 1024 bytes (1 KB) between 61 and 9999. Code only the decimal number; do not code the K.</p> <p>For example, LIBRBUF=999.</p>
LPPUNLMT	A/ O	Y	<p>Creates a report with unlimited lines per page. The specification REPORT 999 LONG in combination with LPPUNLMT=Y, eliminates report page breaks. The parameter produces a report with titles and column headings only on the first page of the report. The default is N (allows report page breaks).</p> <p>For example, LPPUNLMT=Y.</p>

Parameter	Prod/ Env	Options	Description
LSTSTMX	11/ A	Y	<p>Overrides the maximum of 26 fields in a LIST statement, allowing a maximum of 40 fields. This may relieve DYL-300E error situations. The default is N.</p> <p>For example, LSTSTMX=Y.</p>
LTRFROM	11/ A	Y	<p>Causes the LETTER command to use the same line number for the TO clause as the FROM clause if the TO clause is not specified. For example, LETTER 1 FROM 2 executes the same as LETTER 1 FROM 2 TO 2. The default is N.</p> <p>For example, LTRFROM=Y.</p>
LTRZERO	11/ A	Y	<p>For letter writing only. Changes A and B edit codes to print zero when the value is zero and defined with no digits to the right of the assumed decimal point. The default is N.</p> <p>For example, LTRZERO=Y.</p>
MACHCOR	11/ D,M	nn	<p>Increases the memory size for a user-written MATCH/MERGE routine. This is necessary if the routine is greater than 4 KB (default). Specifies the value decimal format, between 4 and 99, and represents a request for nnK.</p> <p>For example, MACHCOR=10.</p>
MACHORG	11/ A	Y	<p>Sets MATCH processing to perform as in releases prior to r2.5 of VISION: Results. The default is N.</p> <p>For example, MACHORG=Y.</p>
MAXDNLN	11/ A	nn	<p>Changes the maximum data name length from the system default of 50 characters. Specify any decimal value between 10 and 50, inclusive. If data names containing more than 42 characters are included in programs, the area and location sections are not printed on the Cross Reference listing when the program requests XREFA or XREF.</p> <p>For example, MAXDNLN=40.</p>

Parameter	Prod/ Env	Options	Description
MAXDYLF	I/ A	nnnn	<p>This parameter is not used for applications run with VISION:Results r4.0 and later.</p> <p>In releases prior to 4.0, this specified the maximum number of DYLIOU and PICNSAVE files in an application. The compiler reserved enough storage for this number of files when restoring a frozen application.</p> <p>If this parameter was specified in prior releases, you may need to retain the same specification to ensure compatibility with frozen applications.</p> <p>For example, MAXDYLF=40.</p>
MNAMENU	I/ A	Y	<p>Allows called subroutine names to start with a numeric instead of an alphabetic character. The default is N.</p> <p>For example, MNAMENU=Y.</p>
MRWRK6	A/ A	xxxxxxx	<p>For VISION:Sixty or OPTION 260 only. Changes the default SYSWRK DDNAME. The SYSWRK file is used for temporary report processing for a VISION:Sixty multiple report. The DDNAME can not be more than eight alphanumeric characters.</p> <p>This can be overridden on the M parameter statement in column 8.</p> <p>For example, MRWRK6=WORKFILE.</p>
NAMEHDR	A/ A	'text'	<p>Text enclosed within single quotation marks will print at the top of pages produced on SYSPRINT or SYSLST. Maximum of 60 characters. The default is null.</p> <p>For example, NAMEHDR='COMPANY NAME'.</p>

Parameter	Prod/ Env	Options	Description
NDVRCOM	I/ O	Y	<p>Prints the attributes of a copied AllFusion® Endeavor® Change Manager element as comments immediately following the COPYN statement in VISION: Results program listing. The default is N (the attributes will not be printed).</p> <p>For example, NDVRCOM=Y.</p> <p>Override at execution time using OPTION keywords NDVRCOM NONDVRCOM.</p>
NDVRENV	I/ O	ccccccc	<p>An 8-byte character string identifying the Endeavor Change Manager environment name to use as a default with the COPYN command. If the environment name is specified on the OPTION NDVRENV statement, it will override the DYLINSTL value. The default is blanks (no value has been supplied).</p> <p>For example, NDVRENV=yourname.</p>
NODLETE	I/ O	Y	<p>Prevents program aborts with an SC03 ABEND at end of job. These program aborts occur when a user calls a subroutine that opens a file but fails to close the file before VISION: Results terminates. During job termination, VISION: Results deletes all of the called modules that it has loaded. Then the operating system, as part of its job termination, attempts to close all unclosed files but is unable to find the DCB in the deleted module, causing an SC03 ABEND. The default is N.</p> <p>If you specify this parameter, VISION: Results will not delete loaded modules at end of job. This may be a problem for TSO/ISPF users using VISION: Results interactively (such as with Advantage™ VISION: Online® for TSO). They may quickly fill their TSO region with undeleted load modules and consequently run out of memory space.</p> <p>For example, NODLETE=Y.</p>
NOPOWRT	I/ O	Y	<p>Disallows writing to a PDS file. The default is N.</p> <p>For example, NOPOWRT=Y.</p>

Parameter	Prod/ Env	Options	Description
NOSRTAB	A/ O	Y	<p>Sets the default for the system to generate a return code of 8 rather than 16 to terminate SORT before all the data has been processed. This can happen if your program logic issues a STOP or QUIT before SORT has processed all records (UNTIL data name not E). In some installations, returning a value of 16 to SORT causes an ABEND. The default is N.</p> <p>For example, NOSRTAB=Y.</p> <p>Override at execution time using OPTION keyword NOSORTAB.</p>
NOTOTAL	II/ A	Y	<p>Suppresses the file statistics and control total information on the control totals page at the completion of program execution. The default is N.</p> <p>For example, NOTOTAL=Y.</p> <p>Override at execution time using OPTION keyword TOTAL.</p>
NOVSIO	II/ A	Y	<p>Disallows I/O (update) to VSAM KSDS, ESDS, and RRDS files. The default is N.</p> <p>For example, NOVSIO=Y.</p>
NOVSOIO	II/ A	Y	<p>Disallows output and I/O on VSAM KSDS, ESDS, and RRDS files. The default is N.</p> <p>For example, NOVSOIO=Y.</p>
NUMCHAR	A/ A	Y	<p>Changes the IF NUMERIC test to check for only F0 through F9 in all bytes (that is, do not allow a sign in the low order digit) for NU or CH fields. For PD fields, checks the sign field for x'C'. The default is N.</p> <p>Override at execution time using OPTION keywords NUMCHAR NONUMCHAR.</p> <p>For example, NUMCHAR=Y.</p>
NUMPD	A/ A	Y	<p>Allows you to use the IF NUMERIC test with PD fields. The default is N.</p> <p>For example, NUMPD=Y.</p> <p>Override at execution time using OPTION keywords NUMPD NONUMPD.</p>

Parameter	Prod/ Env	Options	Description
OPTLIST	A/ A	N	<p>Changes the default to suppress printing of the DEFAULT OPTIONS SPECIFIED page (formerly OPTIONS ACTIVE) at the end of the VISION:Results listing. The default is Y.</p> <p>For example, OPTLIST=N.</p> <p>The DEFAULT OPTIONS SPECIFIED page should be available when consulting CA Customer Support and must accompany any documentation requested by them. Override at execution time using OPTION keywords OPTLIST NOOPTLIST.</p>
OPTPRDG	11/ A	N	<p>Changes the default from OPTION PRINTDIGITS to OPTION NOPRINTDIGITS.</p> <p>This option affects only LIST statements. N will override the default which allows printing of very large numbers (21 digits and 9 decimal places). Setting OPTPRDG to N forces the output to format numbers within the limitations of VISION:Results r2.2 and earlier (10 digits and 5 decimal places). The default is Y.</p> <p>For example, OPTPRDG=N.</p> <p>Override at execution time using OPTION keywords PRINTDIGITS NOPRINTDIGITS.</p>
OPTPRER	11/ A	Y	<p>Defaults to extended error analysis. This has the same effect as using OPTION PRINTERR PRINTERROR. The default is N.</p> <p>For example, OPTPRER=Y.</p>
OUTFILE	11/ A	Y	<p>Produces a null file when a file defined as an output file does not write any records. This allows subsequent steps referring to this file to proceed normally. The default is N.</p> <p>For example, OUTFILE=Y.</p>
PANDEV	11/ D,M	dddd	<p>Allows you to specify a value for the DASD type of the AllFusion® CA-Panvalet® library. The default is 3330.</p> <p>For example, PANDEV=1000.</p>

Parameter	Prod/ Env	Options	Description
PANSYS	I/ D,M	nnn	<p>Allows you to specify a value for the System Logical Unit number for the CA-Panvalet library. The default is 026.</p> <p>For example, PANSYS=100.</p>
PANVBUF	I/ A	nnnn	<p>Increases the default of 60 KB of memory for the COPYP (CA-Panvalet) interface and I/O buffers. Specify the value as a decimal unit of 1024 bytes (1 KB) between 60 and 9999. Code only the decimal number; do not code the K.</p> <p>For example, PANVBUF=999.</p>
PDSREPL	I/ O	Y	<p>Causes the PDS WRITEDIR with REPLACE function to place a value of A in the status byte if the REPLACE results in an ADD because the member did not pre-exist. The default is to return a value of N.</p> <p>For example, PDSREPL=Y.</p> <p>Override at execution time using the OPTION keywords PDSREPA PDSREPN.</p>
PGLINER	A/ A	nn	<p>Alters lines per page on the report file:</p> <ul style="list-style-type: none"> ■ VSE file name SYSLSST ■ z/OS ddname SYS280R <p>Default value is 55; specify a decimal value less than 100.</p> <p>For VSE only, if this value is greater than the operating system default for the system printer, make sure that the FCB is greater or equal to the PGLINER value.</p> <p>For example, PGLINER=52.</p>
PGLINES	A/ A	nn	<p>Alters lines per page on the listing file:</p> <ul style="list-style-type: none"> ■ VSE file name SYSLSST ■ z/OS ddname SYSPRINT <p>Default value is 55; specify a decimal value from 10-100.</p> <p>For example, PGLINES=52.</p>

Parameter	Prod/ Env	Options	Description
PROGMOD	I/ A		<p>Changes programming mode and cross-reference option, and disallows exponentiation. Specify multiple options by coding a list separated by commas, enclosed in parentheses. You can specify the items in any order, but they must be unique. If you choose only one item, do not include parentheses.</p> <p>The default is XREFREF,CONVENTIONAL,EXP.</p> <p>Choices for each item are described by group.</p> <p>Programming Mode</p> <p>STRUCT This option group defines the default programming mode. See the <i>Advantage VISION:Results for z/OS Reference Guide</i>.</p> <p>CONVENTIONAL is the default and disallows the use of structured commands.</p> <p>STRUCTURED allows the use of structured commands and nested IF statements. Disallows GOTO, ACCEPT, and REJECT commands.</p> <p>STRUCT2 STRUCTURED2 allows the use of structured commands and nested IF statements. Also allows the use of GOTO, ACCEPT, and REJECT commands.</p> <p>USERDEF USERDEFAULT disallows the use of structured commands and some conventional report facilities.</p>

Parameter	Prod/ Env	Options	Description
			<p>Cross-Reference Option</p> <p>XREFREF System-released default value. Produce cross-reference for referenced data names. This value is retained if this item is not specified.</p> <p>XREFFA Request cross-reference for all data names.</p> <p>NOXREF Do not produce cross-reference.</p> <p>Exponentiation</p> <p>Exponentiation is the default.</p> <p>NOEXP Do not allow exponentiation.</p> <p>For example, PROGMOD=NOEXP. For example, PROGMOD=(STRUCT,XREFFA). For example, PROGMOD=(STRUCT,NOEXP).</p>
PRTCTRS	I/ O	Y	<p>Instructs the compiler to print the values and labels for all 126 counters at the end of the execution for each request even if the value is zero. The default is N, which does not print the counter values and labels.</p> <p>For example, PRTCTRS=Y.</p> <p>Override at execution time using OPTION keywords PRINTCTRS NOPRINTCTRS.</p>
PRTErr6	A/ A	1 2 3	<p>For VISION: Sixty or OPTION 260 only. Changes the default for print error analysis (C parameter, column 29) to:</p> <p>1 = extended error analysis 2 = data name error analysis 3 = extended and data name error analysis</p> <p>If omitted, the default STANDARD (blank) is used.</p> <p>For example, PRTErr6=3.</p>
PRTZERO	A/ A	Y	<p>Changes the A and B edit codes to print 0 for zero values. The default is N.</p> <p>For example, PRTZERO=Y.</p>

Parameter	Prod/ Env	Options	Description
QLF	I/ A	Y	<p>Sets the system to have the data name qualification option to allow non-unique data names. Use this parameter with caution. The default is N, which forces unique names.</p> <p>For example, QLF=Y.</p> <p>Override at execution time using OPTION keywords NOQLF QLF.</p>
RANDMPCT	A/ A	Y	<p>Determines which random number generator algorithm is used. RANDMPCT=N/Y. If set to Y, will use for random sampling a random number generator algorithm that generates uniform random numbers according to the method of Fishman and Moore (1982), using a prime modulus multiplicative generator with modulus $2^{*}31$ and multiplier 397204094.</p> <p>The default is N.</p> <p>For example, RANDMPCT=Y.</p>
RDYONLY	I/ A	Y	<p>Creates a read-only version of the product that does not allow references to output data sets. LIST is allowed, but commands such as FILE or WRITE are inhibited.</p> <p>The default is N.</p> <p>For example, RDYONLY=Y.</p>
RESRWRD	I/ A	Y	<p>Allows VISION:Results reserved words (commands, keywords, or both) as data names. The default is N.</p> <p>For example, RESRWRD=Y.</p> <p>Note: Setting this parameter to Y disables many VISION:Results features such as Letter Writer, PDS Update, and Table Handling. To override individual keywords, use optional parameter KWDLT.</p>

Parameter	Prod/ Env	Options	Description
RETCODE	A/ A	N	<p>Determines if the return code from a called subroutine is available to the programmer in reserved word DYLCOMRG. The default is Y.</p> <p>For example, RETCODE=N.</p> <p>When this parameter is set to Y, the default, include the following program logic to capture the return code:</p> <pre> WORKAREA XX 2 REDEFINE XX YY 2 BI CALL subroutine USING parameters MOVE DYLCOMRG TO XX IF YY NE 0 (to handle non-zero return-code) ENDIF </pre>
RPTASA	A/ O	Y	<p>Instructs the report writer feature to produce all reports with ASA carriage control characters, instead of machine carriage control. The default is N.</p> <p>For example, RPTASA=Y.</p> <p>REPORT ASA keyword overrides this parameter.</p>
RPTDDNM	A/ O	cccccc	<p>Supplies an alternative to SYS280R for the JCL DDname of the report file produced by LIST statements. If specified, the value must be a maximum of 7 alphanumeric characters. It cannot be a specified reserved word. The default is SYS280R.</p> <p>For example, RPTDDNM=OVTDATA.</p> <p>When the Report SYS280Rx syntax is used, the DDname supplied in the JCL must be ccccccx (the same name as supplied in this parameter).</p>
RPTXPAG	A/ O	Y	<p>Allows the report writer feature to print a blank page at the beginning of a report. The default is N, which suppresses the blank page.</p> <p>For example, RPTXPAG=Y.</p>

Parameter	Prod/ Env	Options	Description
R15RC	A/ M	Y	<p>Loads the return code into register 15 at end of job so the return code can be tested in conditional JCL statements. The default is N.</p> <p>For example, R15RC=Y.</p>
SORTDEV	II/ O	name	<p>Changes the dynamic allocation feature of SORT to specify a unit name other than SYSDA. Specify any valid unit name known to the system, using up to eight characters. The default is SYSDA.</p> <p>For example, SORTDEV=3380.</p> <p>This parameter is valid only when parameter SORTDYN is also specified.</p>
SORTDYN	II/ O	Y	<p>Appends DYNALLOC=SYSDA to the SORT control statement passed to SORT during execution, dynamically allocating disk work areas in some SORT packages. Verify that the SORT installed on your system supports this feature before choosing this option. The default is N.</p> <p>For example, SORTDYN=Y.</p> <p>Override at execution time by supplying JCL for SORT work areas.</p>

Parameter	Prod/ Env	Options	Description
SORTMEM	A/ O	(nnnn, nnnn, nnnn, nnnn)	<p>Alters DYLSORT sort memory minimum, maximum, core, and maximum reset size defaults. Currently, these values are:</p> <p>36 KB MINIMUM 100 KB MAXIMUM 700 KB CORE=MAX 100 KB USED TO RESET MAXIMUM</p> <p>Alter these default values by creating a list of positional values of decimal units of 1024 bytes (1 KB) enclosed in parentheses and separated by commas.</p> <p>Code only the decimal number (no K). The positional values are in the order: MINIMUM, MAXIMUM, CORE=MAX, RESET MAXIMUM.</p> <p>To keep any default unchanged, omit the corresponding value in the list, while keeping commas as placeholders to indicate omitted values. If the only value you change is the MINIMUM, enter it without parentheses. You can omit commas in drop off order.</p> <p>Examples:</p> <p>SORTMEM=(,156) Change MAXIMUM to 156K</p> <p>SORTMEM=(40,,800) Change MINIMUM to 40K, CORE=MAX to 800K</p> <p>SORTMEM=44 Change MINIMUM to 44K</p>
SORTNAM	A/ A	name	<p>Changes the program name called by DYLSORT. The name is any valid program name up to eight characters long that is known to the system. The default is SORT.</p> <p>For example, SORTNAM=IGHCRO00.</p>
SQLIFIF	II/ A	Y	<p>Allows the use of nested IF statements without STRUCTURED or STRUCTURED2 in effect. If STRUCTURED or STRUCTURED2 is not being used, the VISION:Results Interface to DB2 requires SQLIFIF. The default is N.</p> <p>For example, SQLIFIF=Y.</p>

Parameter	Prod/ Env	Options	Description
SSMASK	A/ A	C	<p>Changes the Social Security default print edit mask to Canadian format for social insurance numbers. The default is N.</p> <p>For example, SSMASK=C.</p>
STATPLN	II/ O	name	<p>For VISION:Results Interface to DB2—Static (r4.0 or higher) only. Provides a replacement name (maximum of eight characters) for the DB2 plan name to be accessed using Static SQL. The default is STATDB2.</p> <p>For example, STATPLN=DB2TEST.</p>
STATSYS	II/ O	nnnn	<p>For VISION:Results Interface to DB2—Static (r4.0 or higher) only. Provides a replacement name (maximum of eight characters) for the DB2 subsystem ID to be accessed using Static SQL. The default is DB2A.</p> <p>For example, STATSYS=DB2T.</p>
STRUCGO	II/ A	Y	<p>Provides GOTO capability in structured mode.</p> <p>Use of this parameter is not recommended because the use of GOTO in a structured program can lead to confusion. The default is N.</p> <p>For example, STRUCGO=Y.</p> <p>Setting this parameter to Y allows structured programming to be used with VISION:Results Interface to DB2 and VISION:Results Interface to SQL/DS (VSE and CMS).</p>
SUBRADD	A/ M,O	N	<p>Specifies whether calls to user-written modules may reside above the 16-MB line.</p> <p>The default is Y to support AMODE(31) subroutines.</p> <p>CMS systems must specify N.</p> <p>For example, SUBRADD=N.</p>

Parameter	Prod/ Env	Options	Description
SUPCOBW	I/ O	N	<p>Allows the compiler to print the DYL-188W and DYL-876W messages when processing COBOL data definitions. The default is Y to prevent the messages from printing.</p> <p>For example, SUPCOBW=N.</p>
SUPRESQ	I/ A	Y	<p>For VISION:Results Interface to DB2 or VISION:Results Interface to SQL/DS only. Suppresses the Q%% variables from the XREF listing. The default is N.</p> <p>For example, SUPRESQ=Y.</p>
SUP182W	I/ A	Y	<p>Suppresses the DYL-182W message issued mainly when a level 88 item is encountered by the COBOL copy facility. The default is N.</p> <p>For example, SUP182W=Y.</p>
SUP452E	I/ D,M	nn	<p>Eliminates the error message DYL-452E: COPY MEMBER NOT FOUND (CONDOR LIBRARY). The value entered in decimal units of 1024 bytes (1 KB) represents the buffer size for CONDOR library. The buffer size supplied to CONDOR must be at least 7 KB greater than the largest block size of any CONDOR library being accessed. The default is 8 KB.</p> <p>nn is the largest block size + 7 KB. Specify values between 8 KB and 99 KB.</p> <p>For example, SUP452E=27 for a 20 KB buffer.</p>
SYSBLOK	A/ O	Y	<p>Allows the operating system to calculate the appropriate block size of a non-VSAM output file created by VISION:Results. This parameter is ignored if the block size is specified on the FILE statement or the DD JCL statement associated with the file, or the BY parameter of the PICNSAVE statement. The default is N.</p> <p>For example, SYSBLOK=Y.</p> <p>Override at execution time using OPTION keywords SYSBLOCK NOSYSBLOCK.</p>

Parameter	Prod/ Env	Options	Description
TAPENO#	I/ D,M	Y	<p>Allows the SYS number to be omitted on tape FILE statements. The default is N.</p> <p>For example, TAPENO#=Y.</p>
TIMESEP	A/ A	C	<p>For VISION: Results—Changes the default symbol used to separate HH, MM, and SS when listing DYLETIME. The default is D (period) and can be changed to C (colon).</p> <p>For example, TIMESEP=C (DYLETIME lists as HH:MM:SS).</p> <p>For VISION: Sixty or OPTION 260—Modifies the USTE field accordingly.</p> <p>For example, TIMESEP=C (USTE field has HH:MM:SS format).</p> <p>Override at execution time using OPTION keywords TIMECOLON TIMEDOT.</p>
VDUPABND	I/ A	Y	<p>Causes VISION: Results to terminate processing with a u300 abend when a VSAM duplicate key condition occurs. The default is N (duplicate key condition causes a value of 1 to be placed in the file status byte and processing continues).</p> <p>For example, VDUPABND=Y.</p>
VSAMCAT	A/ O,M	N	<p>Retrieves the file attributes for a FILE statement for a VSAM file (KSDS, ESDS, RRDS) from the currently accessed VSAM catalog when the program is compiled. It also allows the user to code VSAM as a file type on the FILE statement. The default is Y.</p> <p>VSAM files using record-level sharing (RLS) require VSAMCAT.</p> <p>For example, VSAMCAT=N.</p> <p>Override at execution time using OPTION keywords VSAMCAT NOVSAMCAT.</p>

Parameter	Prod/ Env	Options	Description
VSAMMSG	I/ O	Y	<p>Allows the compiler to print warning message DYL-1161W when processing a VSAM FILE statement that contains attributes (record format, length) that differ from the VSAM catalog entries for the file, or that are omitted from the FILE statement. The default is N (suppress the message).</p> <p>For example, VSAMMSG=Y.</p>
VSEATTR	A/ D,M	A D T	<p>Establishes the default for VSE I/O processing for Disk (D), Tape (T), or both (A) types of devices, to use VSE control blocks (DTFs) that represent the file attributes and record format specified on the FILE statement. If you do not code this parameter, the compiler continues to use UNDEFINED record format for all non-EXIT DYLIUO or non-VSAM files. The default is N.</p> <p>For example, VSEATTR=D (establishes a default to use the FILE statement attributes and record format in the DTFs for disk files).</p> <p>Override at execution time using OPTION keywords NOVSEALL NOVSEDISK NOVSETAPE VSEALL VSEDISK VSETAPE.</p>
WRKFDEV	I/ D,M	2314 3340 3350	<p>Changes the default device type for the VISION:Results work file. No entry is required for 3310, 3330, 3370, 3375, or 3380. The default is 3350.</p> <p>For example, WRKFDEV=2314.</p>
WRKFNAM	I/ D,M	name	<p>Changes the default file name of the VISION:Results work file (the default name is IJSYS04). You can specify a name up to seven characters long.</p> <p>For example, WRKFNAM=SYSWORK.</p>
WRKFSYS	I/ D,M	nnn	<p>Changes the default SYS number for the VISION:Results work file (currently SYS004). Specify a DECIMAL value less than 256.</p> <p>For example, WRKFSYS=19.</p>

Parameter	Prod/ Env	Options	Description
XREF\$	I/ O	Y	<p>Allows the compiler to include data names that include the character \$ on the cross-reference listing. The default is N.</p> <p>For example, XREF\$=Y.</p>
ZDIVAB	A/ A	Y R	<p>An entry of Y forces the system to ABEND if a divide by zero is encountered.</p> <p>The default is O which utilizes automatic recovery and sets the results of zero divide operations to 0.</p> <p>An entry of R corrects a divide by zero by changing the divisor to 1 and sets the return code to 4.</p> <p>For example, ZDIVAB=Y.</p> <p>For VISION:Results—Override at execution time using OPTION keywords ZDIVAB ZDIVORG ZDIVRC.</p> <p>For OPTION 260 and VISION:Sixty—Override at execution time by setting UDDI to 3 to invoke standard error recovery processing. The arithmetic result is zero.</p>

Note: The following parameters are no longer being used by VISION:Results—PRODCDE, REFNO, TABLEHI, and TOMSG.

Note: The D2PLNID and D2SYSID parameters have been replaced by CATPLAN and CATSYS.

Creating Different Functional Versions of VISION:Results

To create multiple VISION:Results systems with different DYLINSTL parameter defaults, create separate versions of DYLPDPS and place that module alone in an alternate load library, distinct from your standard VISION:Results operational library. When executing a VISION:Results program, place the alternate load library before the standard VISION:Results operational library in the JCL STEPLIB DD concatenation.

To create an alternate loadlib, use the sample CUSTMJCL member to assemble DYLINSTL and create the alternate DYLPDPS module, but change the DSN in the SYSLMOD DD statement to the name of the alternate library.

Appendix B: Operating Characteristics

File Assignments

Use the following file assignments for a VISION:Results program:

ddname Used	Description
SYSPRINT	Printed source statements, totals, statistics, and file print.
SYS280R	Printed report output.
SYSCOPY	Partitioned data set library containing copy code.
SYS004	VISION:Results work file.
SYS280FZ	Freeze module (object deck) output.
SYSIN	Used for source statement input and, optionally, instream input.
AUDPRINT	Summary reports and letter writing output.
AUDCBF	Control blocks, letter writing text, and security number.
AUDEPF	VISION:Results work file.
AUDWORK	VISION:Results work file.
filename	File input or output as specified in the VISION:Results program. The ddname corresponds to the file name specified in the program.
VRHTMLIB	VISION:Results HTML template library.
VRHTMWRK	VISION:Results HTML work file.

JCL Examples

JCL data input only:

```

//          JOB    ...accounting information
//STEP01   EXEC PGM=DYL280,REGION=0M
//STEPLIB  DD DSN=your.results.load.library,DISP=SHR
//SYSCOPY  DD DSN=your.copylib,DISP=SHR
//SYSPRINT DD SYSOUT=A
//SYS280R  DD SYSOUT=A
//SYS004   DD UNIT=SYSDA,SPACE=(TRK,(5,5))
//AUDPRINT DD SYSOUT=A
//AUDWORK  DD UNIT=SYSDA,SPACE=(TRK,(10,5))
//AUDEPF   DD UNIT=SYSDA,SPACE=(TRK,(10,5)),
//          DCB=(BLKSIZE=800,LRECL=80,RECFM=FB)
//AUDCBF   DD UNIT=SYSDA,SPACE=(TRK,(10,5)),
//          DCB=BLKSIZE=1000

required //SYSOUT DD SYSOUT=A
only if //SORTLIB DD DSN=your.sortlib.dataset,DISP=SHR
SORT     //SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)
is used  //SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)
         //SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)

//SYSIN   DD *
          VISION:RESULTS statements

FIN
          input data
/*
//

```

Figure 19 JCL Data Input Only

JCL disk input and output:

```

//          JOB (accounting information ...)
//STEP01   EXEC PGM=DYL280,REGION=0M,TIME=(,40)
//STEPLIB  DD DSN=your.results.load.library,
//          DISP=SHR
//SYSCOPY  DD DSN=your.copylib,DISP=SHR
//SYS280R  DD SYSOUT=A
//SYSPRINT DD SYSOUT=A
//SYS004   DD UNIT=SYSDA,SPACE=(TRK,(5,5))
//AUDPRINT DD SYSOUT=A
//AUDWORK  DD UNIT=SYSDA,SPACE=(TRK,(10,5))
//AUDEPF   DD UNIT=SYSDA,SPACE=(TRK,(10,5)),
//          DCB=(BLKSIZE=800,LRECL=80,RECFM=FB)
//AUDCBF   DD UNIT=SYSDA,SPACE=(TRK,(10,5)),
//          DCB=BLKSIZE=1000

required //SYSOUT DD SYSOUT=A
only if //SORTLIB DD DSN=your.sortlib.dataset,DISP=SHR
SORT is //SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)
used     //SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)
         //SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(5),,CONTIG)

input file //FILEA DD DSN=your.results.demofile,DISP=SHR
JCL if DISK

output file //FILEB DD DSN=your.output.file,DISP=(,PASS),
JCL if DISK //          UNIT=SYSDA,SPACE=(TRK,(5,5))

//SYSIN   DD *
          your VISION:RESULTS program
/*
//

```

Figure 20 JCL Disk Input and Output

PARM Parameter

The PARM parameter is not required in the VISION:Results JCL EXEC statement. However, you can use this parameter when one of the following occurs:

- You have exhausted the compiler work area allocation of VISION:Results.
- You want to limit the number of lines per printed page on the AUDPRINT reports. The default is 56 lines per page.

Example:

```
// EXEC PGM=DYL280,
//      PARM='WA=nnn,LMAX=xx'
```

where:

nnn = Number of KB to be added to or subtracted from the default compiler work area.

xx = Maximum number of lines per printed page.

The PARM parameter also allows you to pass between 1 and 60 bytes of variable data to a VISION:Results program. The data is placed into a VISION:Results preallocated field with the data name DYLPARM. To do this, code

```
//S001 EXEC PGM=DYL280,PARM='UA=variable data',
```

where

variable data

is the 1 to 60 bytes of data placed in DYLPARM.

For example:

```
//S001 EXEC PGM=DYL280,PARM='UA=01/15/06'.
```

This places 01/15/06 into DYLPARM, left-aligned, and filled with blanks to the right. If the OPTION DATA statement has been used in a VISION:Results program to place data into DYLPARM, a PARM='UA=variable data' overrides the OPTION DATA data.

For example:

```
//S001 EXEC PGM=DYL280
.
//SYSIN DD *
OPTION DATA '01/15/06'
```

causes DYLPARM to have the value 01/15/06, whereas:

```
//S001 EXEC PGM=DYL280,PARM='UA=01/21/06'
.
//SYSIN DD *
OPTION DATA '01/15/06'
```

causes DYLPARM to have the value 01/21/06.

You can use this option with a compile-and-run VISION:Results program or when executing a frozen VISION:Results program. It has no meaning in a VERIFY or FREEZE VISION:Results run.

Appendix C: Sample SMP/E JCL

SMPELIB Members

The following members of the RESULTS.REL60.SMPELIB are delivered on the installation tape discussed in [Chapter 3: Installing VISION:Results](#). These are used to apply maintenance to your VISION:Results system, as discussed in [Chapter 4: Performing Maintenance and Support](#).

Member Name	Function
ZACCEPT	Accept a PTF or USERMOD into distribution library
ZAPPLY	Apply a PTF or USERMOD into the target library
ZCOPY	Copy the target library to a VISION:Results test library
ZRECEIVE	Receive a PTF or USERMOD into the global zone and libraries
ZREFRESH	Refresh the VISION:Results operational library with the latest PTFs and USERMODs from the distribution library
ZREJECT	Reject (remove) a PTF or USERMOD from the global zone and libraries
ZRESTORE	Restore (remove) a PTF or USERMOD from the target library

Sample SMP/E JCL

[Figure 21](#) through [Figure 27](#) show samples of the SMP/E JCL for each member.

ZACCEPT

```

ZACCEPT
//      JOB ...
// *
// * MEMBER ZACCEPT
// *****
// *
// * ACCEPT THE VISION:RESULTS PTFs AND USERMODS INTO THE SMP/E
// * DISTRIBUTION ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES ASSIGNED IN
// * JOB SMPJOB01.
// *
// * CHANGE THE ACCEPT SELECT PARAMETER TO THE PTF OR USERMOD YOU WANT
// * TO ACCEPT.
// *
// * NOTE THAT THE PTF OR USERMOD WILL BE ACCEPTED INTO THE DISTRIBUTION
// * ZONE LIBRARIES DEFINED VIA THE DDDEF ENTRIES FOR THAT ZONE.
// * SEE JOB SMPJOB02 FOR THE APPLICABLE DDDEF ENTRIES.
// *
// * AFTER THE ACCEPT IS COMPLETE WITHIN THE DISTRIBUTION ZONE LIBRARY,
// * YOU MUST THEN COPY THE CHANGED DISTRIBUTION LIBRARY MODULES INTO
// * YOUR OPERATIONAL LIBRARY IN ORDER FOR THE CHANGES IN THE PTF
// * OR USERMOD TO TAKE EFFECT IN YOUR OPERATIONAL LIBRARY.
// *
// * PLEASE RUN THE ZREFRESH JOB IN ORDER TO COPY THE CHANGES FROM THE
// * DISTRIBUTION LIBRARY INTO YOUR OPERATIONAL LIBRARY.
// *
// *****
// *
// * SET SMPE=Your.Results      HIGH-LEVEL QUALIFIERS FOR SMP/E CSI DSN
// * SET CNTL=Your.Results      HIGH-LEVEL QUALIFIERS FOR SMP/E CNTL DSN
// *
//ACCEPT EXEC PGM=GIMSMP,REGION=OM
//SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
//IJCLIN DD DSN=&CNTL..SMPCNTL,DISP=SHR
//SMPCNTL DD *
//      SET BDY(RES60DZ) .
//      ACCEPT SELECT(NNNNNNN) .
//      LIST.
//

```

Figure 21 Sample SMP/E JCL for ZACCEPT Member

ZAPPLY

```

ZAPPLY
//      JOB ...
// *
// * MEMBER ZAPPLY
// *****
// *
// * APPLY THE VISION:RESULTS PTFs AND USERMODS TO THE SMP/E
// * TARGET ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES ASSIGNED IN
// * JOB SMPJOB01.
// *
// * CHANGE THE APPLY SELECT PARAMETER TO THE PTF OR USERMOD YOU WANT

```

Figure 22 Sample SMP/E JCL for ZAPPLY Member (Page 1 of 2)

```

// * TO APPLY.
// *
// * NOTE THAT THE PTF OR USERMOD WILL BE APPLIED TO THE TARGET ZONE
// * LIBRARIES DEFINED VIA THE DDDEF ENTRIES FOR THE TARGET ZONE.
// * SEE JOB SMPJOB02 FOR THE APPLICABLE DDDEF ENTRIES.
// *
// * IF A TEST LIBRARY, (RATHER THAN THE TARGET ZONE LIBRARY), IS USED
// * TO TEST CHANGES FROM PTFs OR USERMODS, THEN AFTER THE APPLY IS
// * COMPLETE, COPY THE CHANGED TARGET LIBRARY MODULES INTO YOUR TEST
// * LIBRARY IN ORDER FOR THE CHANGES TO TAKE EFFECT IN YOUR TEST
// * LIBRARY.
// *
// *
// *****
// *
// * SET SMPE=Your.Results      HIGH-LEVEL QUALIFIER FOR SMP/E CSI DSN
// * SET CNTL=Your.Results     HIGH-LEVEL QUALIFIER FOR SMP/E CNTL DSN
// *
// *
// * APPLY EXEC PGM=GIMSMP,REGION=0M
// * SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
// * IJCLIN DD DSN=&CNTL..SMPCNTL,DISP=SHR
// * SMPCNTL DD *
// *   SET BDY(RES60TZ) .
// *   APPLY SELECT(NNNNNNN) .
// *   LIST.
// *
//

```

Figure 22 Sample SMP/E JCL for ZAPPLY Member (Page 2 of 2)

ZCOPY

```

ZCOPY
//      JOB ...
// *
// * MEMBER ZCOPY
// *****
// *
// * DEFINE A VISION:RESULTS TEST LIBRARY AND COPY THE CONTENTS
// * OF THE SMP/E TARGET LIBRARY INTO THE TEST LIBRARY. THE TEST
// * LIBRARY WILL BE USED TO TEST A PTF OR USERMOD THAT HAS BEEN
// * APPLIED TO THE SMP/E TARGET LIBRARY.
// *
// * The SMP/E TARGET LIBRARY IS THE SAME NAME USED IN THE
// * SMPJOB01 JOB.
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET COMMAND PARAMETERS BELOW TO REFLECT YOUR DATASET
// * NAMING AND ALLOCATION CONVENTIONS.
// *
// *****
// *
// * SET SMPE=Your.Results.RESTLIB      SMP/E TARGET LIBRARY
// * SET RESULTS=Your.Results.??????  RESULTS TEST LIBRARY
// * SET UNIT=SYSDA                     UNIT FOR TEST LIBRARY
// * SET STORCLAS=????????             STORAGE CLASS FOR THE
// *                                     TEST LIBRARY
// *
// *****
// *
// * ALLOCATE VISION:RESULTS TEST LIBRARY
// * NOTE: VISION:RESULTS TEST LIBRARY WILL BE ALLOCATED AS A
// *       PDSE LIBRARY
// *
// *****
// *
// * DELETE EXEC PGM=IEFBR14
// * RESULTS DD DSN=&RESULTS,
// *           DISP=(MOD,DELETE),
// *           SPACE=(TRK,(0,0)),
// *

```

Figure 23 Sample SMP/E JCL for ZCOPY Member (Page 1 of 2)

```

//          UNIT=&UNIT
//*
//ALLOCATE EXEC PGM=IEFBR14
//RESULTS DD DSN=&RESULTS,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=&UNIT,STORCLAS=&STORCLAS,
//          DSNTYPE=LIBRARY,
//          SPACE=(CYL,(4,3,20))
//
//*****
//*
//* COPY CONTENTS OF SMP/E TARGET LIBRARY INTO RESULTS TEST LIBRARY
//*
//*****
//*
//COPY      EXEC PGM=IEBCOPY,REGION=0M
//SYSPRINT DD SYSOUT=*
//SMPTLIB  DD DSN=&SMPE,DISP=OLD
//RECTLIB  DD DSN=&RESULTS,DISP=OLD
//SYSUT3   DD UNIT=SYSDA,SPACE=(TRK,10)
//SYSUT4   DD UNIT=SYSDA,SPACE=(TRK,10)
//SYSIN    DD *
//COPY INDD=SMPTLIB,OUTDD=RECTLIB TYPE=MOD
//*

```

Figure 23 Sample SMP/E JCL for ZCOPY Member (Page 2 of 2)

ZRECEIVE

```

ZRECEIVE
//          JOB ...
//*
//* MEMBER ZRECEIVE
//*****
//*
//* RECEIVE THE VISION:RESULTS PTFS AND USERMODS INTO THE SMP/E
//* GLOBAL ZONE
//*
//*****
//*
//* REPLACE THE JOB CARD ABOVE.
//*
//* CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUE ASSIGNED IN
//* JOB SMPJOB01.
//*
//* CHANGE THE MEMBER NAME FOR THE SMPPTFIN DSN TO THE PTF OR USERMOD
//* MEMBER NAME YOU WANT TO RECEIVE.
//*
//*****
//*
// SET SMPE=Your.Results      HIGH-LEVEL QUALIFIER FOR SMP/E CSI DSN
// SET CNTL=Your.Results      HIGH-LEVEL QUALIFIER FOR SMP/E CNTL DSN
//*
//*****
//*
//RECEIVE EXEC PGM=GIMSMP,REGION=0M
//SMPCSI   DD DSN=&SMPE.CSI,DISP=SHR
//SMPPTFIN DD DSN=&CNTL.SMPCNTL(NNNNNNN),DISP=SHR
//SMPCNTL  DD *
//          SET BDY(GLOBAL).
//          RECEIVE SYSMODS LIST.
//          LIST.
//

```

Figure 24 Sample SMP/E JCL for ZRECEIVE Member

ZREFRESH

```

//          JOB ...
//*
//* MEMBER ZREFRESH
//*****
//*****
//*
//* REFRESH THE VISION:RESULTS OPERATIONAL LIBRARY WITH
THE LATEST
//* PTFS AND USERMODS.
//*
//*****
//*
//* REPLACE THE JOB CARD ABOVE.
//*

//* CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUES
ASSIGNED IN
//* JOB SMPJOB06.
//*
//* THIS JOB COPIES THE CHANGES FROM THE DISTRIBUTION
LIBRARY INTO
//* YOUR OPERATIONAL LIBRARY. PLEASE NOTE THAT CUSTOMIZING
MODULES,
//* SUCH AS DYLPCTS, ARE NOT COPIED. YOUR CURRENT DYLINSTL
MACRO
//* RUNTIME PARAMETERS ARE NOT AFFECTED.
//*
//*****
//*****
//*
// SET SMPE=Your.Results.RESDLIB      SMP/E
DISTRIBUTION LIBRARY
// SET RESULTS=Your.Results.?????    RESULTS
OPERATIONAL LIBRARY
//*
//*****
//*****
//*
//* COPY CONTENTS OF RESULTS DISTRIBUTION LIBRARY INTO
RESULTS
//* OPERATIONAL LIBRARY
//*
//*****
//*****
//*
//COPY      EXEC PGM=IEBCOPY,REGION=0M
//SYSPRINT DD SYSOUT=*
//RESDLIB  DD DSN=&SMPE,DISP=OLD
//RESOLIB  DD DSN=&RESULTS,DISP=OLD
//SYSUT3   DD UNIT=SYSDA,SPACE=(TRK,10)
//SYSUT4   DD UNIT=SYSDA,SPACE=(TRK,10)
//SYSIN    DD *
COPY INDD=RESDLIB,OUTDD=RESOLIB  TYPE=MOD
SELECT MEMBER=( (CALELDRE, ,R) )
SELECT MEMBER=( (CALELDRM, ,R) )
SELECT MEMBER=( (CONVDATE, ,R) )
SELECT MEMBER=( (CONVDATT, ,R) )
SELECT MEMBER=( (CONVTprt, ,R) )
SELECT MEMBER=( (CSVRSLT, ,R) )
SELECT MEMBER=( (CSVRSL2, ,R) )
SELECT MEMBER=( (CSVSYST, ,R) )
SELECT MEMBER=( (CSVSYS2, ,R) )
SELECT MEMBER=( (CVROMAN, ,R) )
SELECT MEMBER=( (CVSTATE, ,R) )
SELECT MEMBER=( (CVWORDS, ,R) )
SELECT MEMBER=( (DYAUDIOU, ,R) )
SELECT MEMBER=( (DYAUD2UP, ,R) )
SELECT MEMBER=( (DYFREQ, ,R) )
SELECT MEMBER=( (DYIQ280, ,R) )
SELECT MEMBER=( (DYLADAYS, ,R) )
SELECT MEMBER=( (DYLALOC, ,R) )
SELECT MEMBER=( (DYLBASE, ,R) )

```

Figure 25 Sample SMP/E JCL for ZREFRESH Member (Page 1 of 2)

```
SELECT MEMBER=(DYLBDM, ,R)
SELECT MEMBER=(DYLCAT01, ,R)
SELECT MEMBER=(DYLDAYWK, ,R)
SELECT MEMBER=(DYLDDEFA, ,R)
SELECT MEMBER=(DYLDDEFB, ,R)
SELECT MEMBER=(DYLDDEFC, ,R)
SELECT MEMBER=(DYLDEF, ,R)
SELECT MEMBER=(DYLDEFAD, ,R)
SELECT MEMBER=(DYLEDRV, ,R)
SELECT MEMBER=(DYLEPRMO, ,R)
SELECT MEMBER=(DYLEXP, ,R)
SELECT MEMBER=(DYLFMTJG, ,R)
SELECT MEMBER=(DYLIOU, ,R)
SELECT MEMBER=(DYLIQPR, ,R)
SELECT MEMBER=(DYLLMP, ,R)
SELECT MEMBER=(DYLMQ, ,R)
SELECT MEMBER=(DYLPFIL, ,R)
SELECT MEMBER=(DYLPDEFA, ,R)
SELECT MEMBER=(DYLPDEFB, ,R)
SELECT MEMBER=(DYLPDEFC, ,R)
SELECT MEMBER=(DYLPDEFD, ,R)
SELECT MEMBER=(DYLPDEFE, ,R)
SELECT MEMBER=(DYLPDEFF, ,R)
SELECT MEMBER=(DYLPDEFG, ,R)
SELECT MEMBER=(DYLPDEFH, ,R)
SELECT MEMBER=(DYLPRA, ,R)
SELECT MEMBER=(DYLPRTF, ,R)
SELECT MEMBER=(DYLPRTS, ,R)
SELECT MEMBER=(DYLSORT, ,R)
SELECT MEMBER=(DYLVLINK, ,R)
SELECT MEMBER=(DYXMLFL, ,R)
SELECT MEMBER=(DYLZDEFA, ,R)
SELECT MEMBER=(DYLZDEFB, ,R)
SELECT MEMBER=(DY260, ,R)
SELECT MEMBER=(DY260M, ,R)
SELECT MEMBER=(DY260P, ,R)
SELECT MEMBER=(DY260XX, ,R)
SELECT MEMBER=(DY280, ,R)
SELECT MEMBER=(DY280L, ,R)
SELECT MEMBER=(DY280N, ,R)
SELECT MEMBER=(DY280P, ,R)
SELECT MEMBER=(DY280V, ,R)
SELECT MEMBER=(DY4INIT, ,R)
SELECT MEMBER=(DY280PDS, ,R)
SELECT MEMBER=(DY280SA, ,R)
SELECT MEMBER=(DY280TB, ,R)
SELECT MEMBER=(DY282MAT, ,R)
SELECT MEMBER=(DY282MER, ,R)
SELECT MEMBER=(FROMROM, ,R)
SELECT MEMBER=(GETCATLG, ,R)
SELECT MEMBER=(HCSDATA, ,R)
SELECT MEMBER=(HCSDATA, ,R)
SELECT MEMBER=(HTMLRSLT, ,R)
SELECT MEMBER=(PRTPCP, ,R)
SELECT MEMBER=(RSLTHTML, ,R)
SELECT MEMBER=(TIMEGET, ,R)
SELECT MEMBER=(TLBDM, ,R)
/*
//
```

Figure 25 Sample SMP/E JCL for ZREFRESH Member (Page 2 of 2)

ZREJECT

```

ZREJECT
//      JOB ...
// *
// * MEMBER ZREJECT
// *****
// *
// * REJECT (REMOVE) VISION:RESULTS PTFS AND USERMODS FROM THE SMP/E
// * GLOBAL ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETER BELOW TO MATCH THE VALUE ASSIGNED IN
// * JOB SMPJOB01.
// *
// * CHANGE THE REJECT SELECT PARAMETER TO THE PTF OR USERMOD YOU WANT
// * TO REJECT.
// *
// *****
// *
// * SET SMPE=Your.Results      HIGH-LEVEL QUALIFIER FOR SMP/E CSI DSN
// *
// *****
// *
// REJECT EXEC PGM=GIMSMP,REGION=0M
// SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
// SMPCNTL DD *
// SET BDY(GLOBAL) .
// REJECT SELECT(NNNNNNN) .
// LIST.
//

```

Figure 26 Sample SMP/E JCL for ZREJECT Member

ZRESTORE

```

ZRESTORE
//      JOB ...
// *
// * MEMBER ZRESTORE
// *****
// *
// * RESTORE (REMOVE) VISION:RESULTS PTFS AND USERMODS FROM THE SMP/E
// * TARGET ZONE
// *
// *****
// *
// * REPLACE THE JOB CARD ABOVE.
// *
// * CHANGE THE SET PARAMETERS BELOW TO MATCH THE VALUE ASSIGNED IN
// * JOB SMPJOB01.
// *
// * CHANGE THE RESTORE SELECT PARAMETER TO THE PTF OR USERMOD YOU WANT
// * TO REMOVE.
// *
// * NOTE THAT THIS JOB WILL RESTORE YOUR TARGET ZONE LIBRARIES TO THE
// * STATE IN WHICH THEY WERE BEFORE THE PTF OR USERMOD WAS APPLIED.
// *
// * IF A TEST LIBRARY, (RATHER THAN THE TARGET ZONE LIBRARY), IS USED
// * TO TEST CHANGES FROM PTFS OR USERMODS, THEN AFTER THE RESTORE IS
// * COMPLETE, COPY THE CHANGED TARGET LIBRARY MODULES INTO YOUR TEST
// * LIBRARY IN ORDER FOR THE CHANGES TO TAKE EFFECT IN YOUR TEST
// * LIBRARY.
// *
// *****

```

Figure 27 Sample SMP/E JCL for ZRESTORE Member (Page 1 of 2)

```

// *
// SET SMPE=Your.Results      HIGH-LEVEL QUALIFIER FOR SMP/E CSI DSN
// *
// *****
// *
// RESTORE EXEC PGM=GIMSMP,REGION=0M
// SMPCSI DD DSN=&SMPE..CSI,DISP=SHR
// SMPCTL DD *
// SET BDY(RES60TZ).
// RESTORE SELECT(NNNNNNN).
// LIST.
//

```

Figure 27 Sample SMP/E JCL for ZRESTORE Member (Page 2 of 2)

Appendix D: Installation Copy and Source Members

Member Functions

The following members of the RESULTS.REL60.SOURCE are delivered on the installation tape discussed in [Chapter 3: Installing VISION:Results](#). These are used during installation and within applications during program execution. A sample of each of these members is provided in the sections that follow.

Member Name	Function
ARFIELDS	COPY member for the record layout of the test data, YOUR.RESULTS.DEMOFILE.
CMQWORK	Websphere MQ Work Area Structures and Parm.s. For more information, see the <i>Advantage VISION:Results for z/OS Toolkit Reference Guide</i> .
CONVDATT	JCL and source definitions to create or replace the default holiday or date table, CONVDATT, used by the CONVDATE subroutine. For more information, see the <i>Advantage VISION:Results for z/OS Toolkit Reference Guide</i> .
CSVCALL	CSV support routine. For more information, see the <i>Advantage VISION:Results for z/OS Toolkit Reference Guide</i> .
CSVWORK	CSV COPY member to be used with CSVCALL. For more information, see the <i>Advantage VISION:Results for z/OS Toolkit Reference Guide</i> .
CUSTOMJCL	JCL procedure to assemble and link edit the DYLINSTL macro.
DB2INSTL	JCL procedure to install the COPYDB2 facility.
DB2INST2	JCL procedure to allow the COPYDB2 facility to work with Call Attach implicit connection.
DYCHANNEL	COPY member supporting channel skipping in the letter writing function.

Member Name	Function
DYIMPCON	Assembler program compiled by the DB2INST2 JCL to establish the DB2 implicit connection facility for COPYDB2.
DYLABEL	COPY source for generating labels automatically. For more information, see the <i>Advantage VISION: Results for z/OS Toolkit Reference Guide</i> .
DYLAPPC1	Test programs using the IBM APPC/MVS ATBALLC, ATBCFMD, ATBDEAL ATBRCVW, ATBSEND facilities. For more information, see the <i>Advantage VISION: Results for z/OS Toolkit Reference Guide</i> .
DYLAPPC2	Test programs using the IBM APPC/MVS ATBCFMD, ATBGETC, ATBGTRN, ATBRCVW, ATBRTRN, ATBSEND facilities. For more information, see the <i>Advantage VISION: Results for z/OS Toolkit Reference Guide</i> .
DYLATB	Set of APPC/MVS work area definitions copied by programs DYLAPPC1 and DYLAPPC2.
DYLCATPG	Test program used during the installation of COPYDB2.
DYLCAT00	Assembler program needed for the installation of COPYDB2.
DYLINSTL	Macro used to define the site customizing parameters.
HOLIDAY	Macro used to define dates for the holiday date table used by the CONVDATE subroutine. For more information, see the <i>Advantage VISION: Results for z/OS Toolkit Reference Guide</i> .
PLIEXIT	Assembler program that can be used as a bridge program to a called PL/I program.
RESULTS	JCL procedure to execute VISION:Results programs.
RE60TEST	VISION:Results test program to verify the installation was performed correctly.
RE60TVSM	Creates and tests a VSAM version of the provided test data.
SIXTY4YR	VISION:Sixty COPY member for licensed VISION:Sixty users to incorporate 4-digit year support into their programs. For more information, see the <i>Advantage VISION: Results for z/OS Reference Guide</i> .
WEEKDAY	Macro used to define the characteristics of each day of the week for the holiday or date table used by the CONVDATE subroutine. For more information, see the <i>Advantage VISION: Results for z/OS Toolkit Reference Guide</i> .

ARFIELDS

A sample of the ARFIELDS member is shown in the following figure.

```

ACCOUNT      7  4      (ACCOUNT'NUMBER)
ACCTNO       7  4      (ACCOUNT'NUMBER)
TRANDATE     6 38      (TRANSACTION'DATE)
TRANS        7  4      (TRANSACTION'NUMBER)
BILLNGDATE   6 44 NU D (BILLING'DATE)
NAMADR       75 85      (NAME AND ADDRESS)
NAME         25 85
ADD1         25 110     (STREET)
ADD2         25 135     (STATE'ZIP)
BALANCE      5 170 PD 2 A
ACCTCODE     2 182     (ACCOUNT'CODE)
INSTLBAL     6 191 PD 2 A (INSTALL'BALANCE)
INSTPAY      5 197 PD 2 A (INSTALL'PAY)
BALPART      4 202 PD 2 A (BALANCE PART'PAY)
INTPART      3 206 PD 2 A (INTEREST PART'PAY)
NUMPY        2 209 PD  A (NUMBER'PAY)

```

Figure 28 Sample ARFIELDS Member

CMQWORK

A sample of the CMQWORK member is shown in the following figure.

```

*****
**
**                               WebSphere MQ for z/OS
**
** FILE NAME:                     CMQWORK
**
** DESCRIPTION:                   Work Area Structures And Parm
**
*****
**
** FUNCTION:                      This file declares work area structures and
**                               parms, which are not found in other files.
**
**
**                               This file also contains a copy of the COBOL
**                               data file called CMQV which has an
**                               assortment of constants used by the MQIs.
**                               and other COBOL data structures.
**
** PROCESSOR:                     COBOL
**
*****
* QUEUE MANAGER NAME
  01 QMGR                          PIC X(48) .
* CONNECTION HANDLE
  01 HCONN                          PIC S9(9) BINARY.
* OBJECT HANDLE
  01 HOBJ                           PIC S9(9) BINARY.
* OPTIONS THAT CONTROL THE ACTION
  01 HOPTIONS                       PIC S9(9) BINARY.
* COMPLETION CODE
  01 COMPCODE                       PIC S9(9) BINARY.
* REASON CODE
  01 REASON                         PIC S9(9) BINARY.
* TEXT ERROR MESSAGE
  01 ERRORMSG                       PIC X(200) .
* TOTAL LENGTH OF MESSAGE BUFFER
  01 BUFFERLEN                     PIC S9(9) BINARY.
* MESSAGE BUFFER

```

Figure 29 Sample CMQWORK Member (Page 1 of 22)

```

01 BUFFER.
  02 BUFFERDATA      PIC X(32767).
  02 BUFFERARRAY REDEFINES BUFFERDATA
                        PIC X(1) OCCURS 32767 TIMES.
* LENGTH OF THE DATA IN THE MESSAGE BUFFER
01 DATALEN          PIC S9(9) BINARY.
* COUNT OF ATTRIBUTE SELECTORS
01 SELECTORCOUNT   PIC S9(9) BINARY.
* ARRAY OF ATTRIBUTE SELECTORS
01 SELECTORSTABLE.
  02 SELECTORS       PIC S9(9) BINARY OCCURS 10 TIMES.
* COUNT OF INTEGER ATTRIBUTES
01 INTATTRCOUNT   PIC S9(9) BINARY.
* ARRAY OF INTEGER ATTRIBUTES
01 INTATTRSTABLE.
  02 INTATTRS       PIC S9(9) BINARY OCCURS 10 TIMES.
* CHARACTER ATTRIBUTES
01 CHARATTRS.
  02 CHARATTRSDATA  PIC X(32767).
  02 CHARATTRSARRAY REDEFINES CHARATTRSDATA
                        PIC X(1) OCCURS 32767 TIMES.
* CHARACTER ATTRIBUTE BUFFER LENGTH
01 CHARATTRLENGTH  PIC S9(9) BINARY.
*****
** Values Related to MQCIH Structure **
*****
** Structure Identifier
  10 MQCIH-STRUC-ID PIC X(4) VALUE 'CIH '.

** Structure Version Number
  10 MQCIH-VERSION-1 PIC S9(9) BINARY VALUE 1.
  10 MQCIH-VERSION-2 PIC S9(9) BINARY VALUE 2.
  10 MQCIH-CURRENT-VERSION PIC S9(9) BINARY VALUE 2.

** Structure Length
  10 MQCIH-LENGTH-1 PIC S9(9) BINARY VALUE 164.
  10 MQCIH-LENGTH-2 PIC S9(9) BINARY VALUE 180.
  10 MQCIH-CURRENT-LENGTH PIC S9(9) BINARY VALUE 180.

** Flags
  10 MQCIH-NONE PIC S9(9) BINARY VALUE 0.

** Return Code
  10 MQCRC-OK PIC S9(9) BINARY VALUE 0.
  10 MQCRC-CICS-EXEC-ERROR PIC S9(9) BINARY VALUE 1.
  10 MQCRC-MQ-API-ERROR PIC S9(9) BINARY VALUE 2.
  10 MQCRC-BRIDGE-ERROR PIC S9(9) BINARY VALUE 3.
  10 MQCRC-BRIDGE-ABEND PIC S9(9) BINARY VALUE 4.
  10 MQCRC-APPLICATION-ABEND PIC S9(9) BINARY VALUE 5.
  10 MQCRC-SECURITY-ERROR PIC S9(9) BINARY VALUE 6.
  10 MQCRC-PROGRAM-NOT-AVAILABLE PIC S9(9) BINARY VALUE 7.
  10 MQCRC-BRIDGE-TIMEOUT PIC S9(9) BINARY VALUE 8.
  10 MQCRC-TRANSID-NOT-AVAILABLE PIC S9(9) BINARY VALUE 9.

** Unit of Work Control
  10 MQCUOWC-ONLY PIC S9(9) BINARY VALUE 273.
  10 MQCUOWC-CONTINUE PIC S9(9) BINARY VALUE 65536.
  10 MQCUOWC-FIRST PIC S9(9) BINARY VALUE 17.
  10 MQCUOWC-MIDDLE PIC S9(9) BINARY VALUE 16.
  10 MQCUOWC-LAST PIC S9(9) BINARY VALUE 272.
  10 MQCUOWC-COMMIT PIC S9(9) BINARY VALUE 256.
  10 MQCUOWC-BACKOUT PIC S9(9) BINARY VALUE 4352.

** Get Wait Interval
  10 MQCGWI-DEFAULT PIC S9(9) BINARY VALUE -2.

** Link Type
  10 MQCLT-PROGRAM PIC S9(9) BINARY VALUE 1.
  10 MQCLT-TRANSACTION PIC S9(9) BINARY VALUE 2.

** Output Data Length
  10 MQCODL-AS-INPUT PIC S9(9) BINARY VALUE -1.

** ADS Descriptor
  10 MQCADSD-NONE PIC S9(9) BINARY VALUE 0.

```

Figure 29 Sample CMQWORK Member (Page 2 of 22)


```

10 MQCADSD-SEND      PIC S9(9) BINARY VALUE 1.
10 MQCADSD-RECV      PIC S9(9) BINARY VALUE 16.
10 MQCADSD-MSGFORMAT PIC S9(9) BINARY VALUE 256.

** Conversational Task
10 MQCCT-YES PIC S9(9) BINARY VALUE 1.
10 MQCCT-NO  PIC S9(9) BINARY VALUE 0.

** Task End Status
10 MQCTES-NOSYNC PIC S9(9) BINARY VALUE 0.
10 MQCTES-COMMIT PIC S9(9) BINARY VALUE 256.
10 MQCTES-BACKOUT PIC S9(9) BINARY VALUE 4352.
10 MQCTES-ENDTASK PIC S9(9) BINARY VALUE 65536.

** Facility
10 MQCFAC-NONE PIC X(8) VALUE LOW-VALUES.

** Function
10 MQCFUNC-MQCONN PIC X(4) VALUE 'CONN'.
10 MQCFUNC-MQGET  PIC X(4) VALUE 'GET '.
10 MQCFUNC-MQINQ  PIC X(4) VALUE 'INQ '.
10 MQCFUNC-MQOPEN PIC X(4) VALUE 'OPEN'.
10 MQCFUNC-MQPUT  PIC X(4) VALUE 'PUT '.
10 MQCFUNC-MQPUT1 PIC X(4) VALUE 'PUT1'.
10 MQCFUNC-NONE   PIC X(4) VALUE SPACES.

** Start Code
10 MQCSC-START      PIC X(4) VALUE 'S  '.
10 MQCSC-STARTDATA PIC X(4) VALUE 'SD  '.
10 MQCSC-TERMINPUT  PIC X(4) VALUE 'TD  '.
10 MQCSC-NONE       PIC X(4) VALUE SPACES.

*****
** Values Related to MQCNO Structure **
*****

** Structure Identifier
10 MQCNO-STRUC-ID PIC X(4) VALUE 'CNO '.

** Structure Version Number
10 MQCNO-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQCNO-VERSION-2 PIC S9(9) BINARY VALUE 2.
10 MQCNO-VERSION-3 PIC S9(9) BINARY VALUE 3.
10 MQCNO-CURRENT-VERSION PIC S9(9) BINARY VALUE 3.

** Connect Options
10 MQCNO-STANDARD-BINDING PIC S9(9) BINARY VALUE 0.
10 MQCNO-FASTPATH-BINDING PIC S9(9) BINARY VALUE 1.
10 MQCNO-SERIALIZE-CONN-TAG-Q-MGR PIC S9(9) BINARY VALUE 2.
10 MQCNO-SERIALIZE-CONN-TAG-QSG PIC S9(9) BINARY VALUE 4.
10 MQCNO-RESTRICT-CONN-TAG-Q-MGR PIC S9(9) BINARY VALUE 8.
10 MQCNO-RESTRICT-CONN-TAG-QSG PIC S9(9) BINARY VALUE 16.
10 MQCNO-NONE PIC S9(9) BINARY VALUE 0.

** Queue-Manager Connection Tag
10 MQCT-NONE PIC X(128) VALUE LOW-VALUES.

*****
** Values Related to MQDLH Structure **
*****

** Structure Identifier
10 MQDLH-STRUC-ID PIC X(4) VALUE 'DLH '.

** Structure Version Number
10 MQDLH-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQDLH-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

*****
** Values Related to MQGMO Structure **
*****

** Structure Identifier

```

Figure 29 Sample CMQWORK Member (Page 3 of 22)

```

10 MQGMO-STRUC-ID PIC X(4) VALUE 'GMO '.

** Structure Version Number
10 MQGMO-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQGMO-VERSION-2 PIC S9(9) BINARY VALUE 2.
10 MQGMO-VERSION-3 PIC S9(9) BINARY VALUE 3.
10 MQGMO-CURRENT-VERSION PIC S9(9) BINARY VALUE 3.

** Get-Message Options
10 MQGMO-WAIT PIC S9(9) BINARY VALUE 1.
10 MQGMO-NO-WAIT PIC S9(9) BINARY VALUE 0.
10 MQGMO-SET-SIGNAL PIC S9(9) BINARY VALUE 8.
10 MQGMO-FAIL-IF-QUIESCING PIC S9(9) BINARY VALUE 8192.
10 MQGMO-SYNCPOINT PIC S9(9) BINARY VALUE 2.
10 MQGMO-SYNCPOINT-IF-PERSISTENT PIC S9(9) BINARY VALUE 4096.
10 MQGMO-NO-SYNCPOINT PIC S9(9) BINARY VALUE 4.
10 MQGMO-MARK-SKIP-BACKOUT PIC S9(9) BINARY VALUE 128.
10 MQGMO-BROWSE-FIRST PIC S9(9) BINARY VALUE 16.
10 MQGMO-BROWSE-NEXT PIC S9(9) BINARY VALUE 32.
10 MQGMO-BROWSE-MSG-UNDER-CURSOR PIC S9(9) BINARY VALUE 2048.
10 MQGMO-MSG-UNDER-CURSOR PIC S9(9) BINARY VALUE 256.
10 MQGMO-LOCK PIC S9(9) BINARY VALUE 512.
10 MQGMO-UNLOCK PIC S9(9) BINARY VALUE 1024.
10 MQGMO-ACCEPT-TRUNCATED-MSG PIC S9(9) BINARY VALUE 64.
10 MQGMO-CONVERT PIC S9(9) BINARY VALUE 16384.
10 MQGMO-LOGICAL-ORDER PIC S9(9) BINARY VALUE 32768.
10 MQGMO-COMPLETE-MSG PIC S9(9) BINARY VALUE 65536.
10 MQGMO-ALL-MSG-AVAILABLE PIC S9(9) BINARY VALUE 131072.
10 MQGMO-ALL-SEGMENTS-AVAILABLE PIC S9(9) BINARY VALUE 262144.
10 MQGMO-NONE PIC S9(9) BINARY VALUE 0.

** Wait Interval
10 MQWI-UNLIMITED PIC S9(9) BINARY VALUE -1.

** Signal Values
10 MQEC-MSG-ARRIVED PIC S9(9) BINARY VALUE 2.
10 MQEC-WAIT-INTERVAL-EXPIRED PIC S9(9) BINARY VALUE 3.
10 MQEC-WAIT-CANCELED PIC S9(9) BINARY VALUE 4.
10 MQEC-Q-MGR-QUIESCING PIC S9(9) BINARY VALUE 5.
10 MQEC-CONNECTION-QUIESCING PIC S9(9) BINARY VALUE 6.

** Match Options
10 MQMO-MATCH-MSG-ID PIC S9(9) BINARY VALUE 1.
10 MQMO-MATCH-CORREL-ID PIC S9(9) BINARY VALUE 2.
10 MQMO-MATCH-GROUP-ID PIC S9(9) BINARY VALUE 4.
10 MQMO-MATCH-MSG-SEQ-NUMBER PIC S9(9) BINARY VALUE 8.
10 MQMO-MATCH-MSG-TOKEN PIC S9(9) BINARY VALUE 32.
10 MQMO-NONE PIC S9(9) BINARY VALUE 0.

** Group Status
10 MQGS-NOT-IN-GROUP PIC X VALUE ' '.
10 MQGS-MSG-IN-GROUP PIC X VALUE 'G'.
10 MQGS-LAST-MSG-IN-GROUP PIC X VALUE 'L'.

** Segment Status
10 MQSS-NOT-A-SEGMENT PIC X VALUE ' '.
10 MQSS-SEGMENT PIC X VALUE 'S'.
10 MQSS-LAST-SEGMENT PIC X VALUE 'L'.

** Segmentation
10 MQSEG-INHIBITED PIC X VALUE ' '.
10 MQSEG-ALLOWED PIC X VALUE 'A'.

** Message Token
10 MQMTOK-NONE PIC X(16) VALUE LOW-VALUES.

** Returned Length
10 MQRL-UNDEFINED PIC S9(9) BINARY VALUE -1.

*****
** Values Related to MQIIH Structure **
*****

** Structure Identifier
10 MQIIH-STRUC-ID PIC X(4) VALUE 'IIH '.

```

Figure 29 Sample CMQWORK Member (Page 4 of 22)

```

** Structure Version Number
10 MQIIH-VERSION-1      PIC S9(9) BINARY VALUE 1.
10 MQIIH-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

** Structure Length
10 MQIIH-LENGTH-1 PIC S9(9) BINARY VALUE 84.

** Flags
10 MQIITH-NONE PIC S9(9) BINARY VALUE 0.

** Authenticator
10 MQIAUT-NONE PIC X(8) VALUE SPACES.

** Transaction Instance Identifier
10 MQITII-NONE PIC X(16) VALUE LOW-VALUES.

** Transaction State
10 MQITS-IN-CONVERSATION PIC X VALUE 'C'.
10 MQITS-NOT-IN-CONVERSATION PIC X VALUE ' '.
10 MQITS-ARCHITECTED PIC X VALUE 'A'.

** Commit Mode
10 MQICM-COMMIT-THEN-SEND PIC X VALUE '0'.
10 MQICM-SEND-THEN-COMMIT PIC X VALUE '1'.

** Security Scope
10 MQISS-CHECK PIC X VALUE 'C'.
10 MQISS-FULL PIC X VALUE 'F'.

*****
** Values Related to MQMD Structure **
*****

** Structure Identifier
10 MQMD-STRUC-ID PIC X(4) VALUE 'MD '.

** Structure Version Number
10 MQMD-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQMD-VERSION-2 PIC S9(9) BINARY VALUE 2.
10 MQMD-CURRENT-VERSION PIC S9(9) BINARY VALUE 2.

** Report Options
10 MQRO-EXCEPTION PIC S9(9) BINARY VALUE 16777216.
10 MQRO-EXCEPTION-WITH-DATA PIC S9(9) BINARY VALUE 50331648.
10 MQRO-EXCEPTION-WITH-FULL-DATA PIC S9(9) BINARY VALUE 117440512.
10 MQRO-EXPIRATION PIC S9(9) BINARY VALUE 2097152.
10 MQRO-EXPIRATION-WITH-DATA PIC S9(9) BINARY VALUE 6291456.
10 MQRO-EXPIRATION-WITH-FULL-DATA PIC S9(9) BINARY VALUE 14680064.
10 MQRO-COA PIC S9(9) BINARY VALUE 256.
10 MQRO-COA-WITH-DATA PIC S9(9) BINARY VALUE 768.
10 MQRO-COA-WITH-FULL-DATA PIC S9(9) BINARY VALUE 1792.
10 MQRO-COD PIC S9(9) BINARY VALUE 2048.
10 MQRO-COD-WITH-DATA PIC S9(9) BINARY VALUE 6144.
10 MQRO-COD-WITH-FULL-DATA PIC S9(9) BINARY VALUE 14336.
10 MQRO-PAN PIC S9(9) BINARY VALUE 1.
10 MQRO-NAN PIC S9(9) BINARY VALUE 2.
10 MQRO-NEW-MSG-ID PIC S9(9) BINARY VALUE 0.
10 MQRO-PASS-MSG-ID PIC S9(9) BINARY VALUE 128.
10 MQRO-COPY-MSG-ID-TO-CORREL-ID PIC S9(9) BINARY VALUE 0.
10 MQRO-PASS-CORREL-ID PIC S9(9) BINARY VALUE 64.
10 MQRO-DEAD-LETTER-Q PIC S9(9) BINARY VALUE 0.
10 MQRO-DISCARD-MSG PIC S9(9) BINARY VALUE 134217728.
10 MQRO-NONE PIC S9(9) BINARY VALUE 0.

** Report Options Masks
10 MQRO-REJECT-UNSUP-MASK PIC S9(9) BINARY VALUE 270270464.

```

Figure 29 Sample CMQWORK Member (Page 5 of 22)

```

10 MQRO-ACCEPT-UNSUP-MASK          PIC S9(9) BINARY VALUE
                                     -270532353.
10 MQRO-ACCEPT-UNSUP-IF-XMIT-MASK PIC S9(9) BINARY VALUE 261888.

** Message Types
10 MQMT-SYSTEM-FIRST              PIC S9(9) BINARY VALUE 1.
10 MQMT-REQUEST                   PIC S9(9) BINARY VALUE 1.
10 MQMT-REPLY                     PIC S9(9) BINARY VALUE 2.
10 MQMT-DATAGRAM                 PIC S9(9) BINARY VALUE 8.
10 MQMT-REPORT                   PIC S9(9) BINARY VALUE 4.
10 MQMT-MQE-FIELDS-FROM-MQE      PIC S9(9) BINARY VALUE 112.
10 MQMT-MQE-FIELDS               PIC S9(9) BINARY VALUE 113.
10 MQMT-SYSTEM-LAST              PIC S9(9) BINARY VALUE 65535.
10 MQMT-APPL-FIRST               PIC S9(9) BINARY VALUE 65536.
10 MQMT-APPL-LAST                PIC S9(9) BINARY VALUE 999999999.

** Expiry
10 MQEI-UNLIMITED PIC S9(9) BINARY VALUE -1.

** Feedback Values
10 MQFB-NONE                      PIC S9(9) BINARY VALUE 0.
10 MQFB-SYSTEM-FIRST             PIC S9(9) BINARY VALUE 1.
10 MQFB-QUIT                     PIC S9(9) BINARY VALUE 256.
10 MQFB-EXPIRATION               PIC S9(9) BINARY VALUE 258.
10 MQFB-COA                      PIC S9(9) BINARY VALUE 259.
10 MQFB-COD                      PIC S9(9) BINARY VALUE 260.
10 MQFB-CHANNEL-COMPLETED       PIC S9(9) BINARY VALUE 262.
10 MQFB-CHANNEL-FAIL-RETRY      PIC S9(9) BINARY VALUE 263.
10 MQFB-CHANNEL-FAIL            PIC S9(9) BINARY VALUE 264.
10 MQFB-APPL-CANNOT-BE-STARTED  PIC S9(9) BINARY VALUE 265.
10 MQFB-TM-ERROR                 PIC S9(9) BINARY VALUE 266.
10 MQFB-APPL-TYPE-ERROR         PIC S9(9) BINARY VALUE 267.
10 MQFB-STOPPED-BY-MSG-EXIT     PIC S9(9) BINARY VALUE 268.
10 MQFB-XMIT-Q-MSG-ERROR        PIC S9(9) BINARY VALUE 271.
10 MQFB-PAN                      PIC S9(9) BINARY VALUE 275.
10 MQFB-NAN                      PIC S9(9) BINARY VALUE 276.
10 MQFB-STOPPED-BY-CHAD-EXIT    PIC S9(9) BINARY VALUE 277.
10 MQFB-STOPPED-BY-PUBSUB-EXIT  PIC S9(9) BINARY VALUE 279.
10 MQFB-NOT-A-REPOSITORY-MSG    PIC S9(9) BINARY VALUE 280.
10 MQFB-BIND-OPEN-CLUSRCVR-DEL  PIC S9(9) BINARY VALUE 281.
10 MQFB-DATA-LENGTH-ZERO        PIC S9(9) BINARY VALUE 291.
10 MQFB-DATA-LENGTH-NEGATIVE    PIC S9(9) BINARY VALUE 292.
10 MQFB-DATA-LENGTH-TOO-BIG     PIC S9(9) BINARY VALUE 293.
10 MQFB-BUFFER-OVERFLOW        PIC S9(9) BINARY VALUE 294.
10 MQFB-LENGTH-OFF-BY-ONE      PIC S9(9) BINARY VALUE 295.
10 MQFB-I IH-ERROR              PIC S9(9) BINARY VALUE 296.
10 MQFB-NOT-AUTHORIZED-FOR-IMS  PIC S9(9) BINARY VALUE 298.
10 MQFB-IMS-ERROR               PIC S9(9) BINARY VALUE 300.
10 MQFB-IMS-FIRST               PIC S9(9) BINARY VALUE 301.
10 MQFB-IMS-LAST                PIC S9(9) BINARY VALUE 399.
10 MQFB-CICS-INTERNAL-ERROR     PIC S9(9) BINARY VALUE 401.
10 MQFB-CICS-NOT-AUTHORIZED     PIC S9(9) BINARY VALUE 402.
10 MQFB-CICS-BRIDGE-FAILURE     PIC S9(9) BINARY VALUE 403.
10 MQFB-CICS-CORREL-ID-ERROR    PIC S9(9) BINARY VALUE 404.
10 MQFB-CICS-CCSID-ERROR        PIC S9(9) BINARY VALUE 405.
10 MQFB-CICS-ENCODING-ERROR     PIC S9(9) BINARY VALUE 406.
10 MQFB-CICS-CIH-ERROR          PIC S9(9) BINARY VALUE 407.
10 MQFB-CICS-UOW-ERROR          PIC S9(9) BINARY VALUE 408.
10 MQFB-CICS-COMMAREA-ERROR     PIC S9(9) BINARY VALUE 409.
10 MQFB-CICS-APPL-NOT-STARTED  PIC S9(9) BINARY VALUE 410.
10 MQFB-CICS-APPL-ABENDED       PIC S9(9) BINARY VALUE 411.
10 MQFB-CICS-DLQ-ERROR          PIC S9(9) BINARY VALUE 412.
10 MQFB-CICS-UOW-BACKED-OUT     PIC S9(9) BINARY VALUE 413.
10 MQFB-SYSTEM-LAST            PIC S9(9) BINARY VALUE 65535.
10 MQFB-APPL-FIRST              PIC S9(9) BINARY VALUE 65536.
10 MQFB-APPL-LAST                PIC S9(9) BINARY VALUE 999999999.

** Encoding
10 MQENC-NATIVE PIC S9(9) BINARY VALUE 785.

** Encoding Masks
10 MQENC-INTEGGER-MASK PIC S9(9) BINARY VALUE 15.
10 MQENC-DECIMAL-MASK PIC S9(9) BINARY VALUE 240.
10 MQENC-FLOAT-MASK PIC S9(9) BINARY VALUE 3840.
10 MQENC-RESERVED-MASK PIC S9(9) BINARY VALUE -4096.

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Figure 29 Sample CMQWORK Member (Page 6 of 22)

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** Encodings for Binary Integers
10 MQENC-INTEGGER-UNDEFINED PIC S9(9) BINARY VALUE 0.
10 MQENC-INTEGGER-NORMAL PIC S9(9) BINARY VALUE 1.
10 MQENC-INTEGGER-REVERSED PIC S9(9) BINARY VALUE 2.

** Encodings for Packed-Decimal Integers
10 MQENC-DECIMAL-UNDEFINED PIC S9(9) BINARY VALUE 0.
10 MQENC-DECIMAL-NORMAL PIC S9(9) BINARY VALUE 16.
10 MQENC-DECIMAL-REVERSED PIC S9(9) BINARY VALUE 32.

** Encodings for Floating-Point Numbers
10 MQENC-FLOAT-UNDEFINED PIC S9(9) BINARY VALUE 0.
10 MQENC-FLOAT-IEEE-NORMAL PIC S9(9) BINARY VALUE 256.
10 MQENC-FLOAT-IEEE-REVERSED PIC S9(9) BINARY VALUE 512.
10 MQENC-FLOAT-S390 PIC S9(9) BINARY VALUE 768.

** Coded Character-Set Identifiers
10 MQCCSI-UNDEFINED PIC S9(9) BINARY VALUE 0.
10 MQCCSI-DEFAULT PIC S9(9) BINARY VALUE 0.
10 MQCCSI-Q-MGR PIC S9(9) BINARY VALUE 0.
10 MQCCSI-INHERIT PIC S9(9) BINARY VALUE -2.
10 MQCCSI-EMBEDDED PIC S9(9) BINARY VALUE -1.

** Formats
10 MQFMT-NONE PIC X(8) VALUE SPACES.
10 MQFMT-ADMIN PIC X(8) VALUE 'MQADMIN '.
10 MQFMT-CHANNEL-COMPLETED PIC X(8) VALUE 'MQCHCOM '.
10 MQFMT-CICS PIC X(8) VALUE 'MQCICS '.
10 MQFMT-COMMAND-1 PIC X(8) VALUE 'MQCMD1 '.
10 MQFMT-COMMAND-2 PIC X(8) VALUE 'MQCMD2 '.
10 MQFMT-DEAD-LETTER-HEADER PIC X(8) VALUE 'MQDEAD '.
10 MQFMT-EVENT PIC X(8) VALUE 'MQEVENT '.
10 MQFMT-IMS PIC X(8) VALUE 'MQIMS '.
10 MQFMT-IMS-VAR-STRING PIC X(8) VALUE 'MQIMSVS '.
10 MQFMT-MD-EXTENSION PIC X(8) VALUE 'MQHMDE '.
10 MQFMT-PCF PIC X(8) VALUE 'MQPCF '.
10 MQFMT-REF-MSG-HEADER PIC X(8) VALUE 'MQHREF '.
10 MQFMT-RF-HEADER PIC X(8) VALUE 'MQHRF '.
10 MQFMT-RF-HEADER-2 PIC X(8) VALUE 'MQHRF2 '.
10 MQFMT-STRING PIC X(8) VALUE 'MQSTR '.
10 MQFMT-TRIGGER PIC X(8) VALUE 'MQTRIG '.
10 MQFMT-WORK-INFO-HEADER PIC X(8) VALUE 'MQHWIH '.
10 MQFMT-XMIT-Q-HEADER PIC X(8) VALUE 'MQXMIT '.

** Priority
10 MQPRI-PRIORITY-AS-Q-DEF PIC S9(9) BINARY VALUE -1.

** Persistence Values
10 MQPER-NOT-PERSISTENT PIC S9(9) BINARY VALUE 0.
10 MQPER-PERSISTENT PIC S9(9) BINARY VALUE 1.
10 MQPER-PERSISTENCE-AS-Q-DEF PIC S9(9) BINARY VALUE 2.

** Message Identifier
10 MQMI-NONE PIC X(24) VALUE LOW-VALUES.

** Correlation Identifier
10 MQCI-NONE PIC X(24) VALUE LOW-VALUES.
10 MQCI-NEW-SESSION.
15 MQCI-NEW-SESSION1 PIC X(9) VALUE
X'414D51214E45575F53'.
15 MQCI-NEW-SESSION2 PIC X(9) VALUE
X'455353494F4E5F434F'.
15 MQCI-NEW-SESSION3 PIC X(6) VALUE
X'5252454C4944'.

** Accounting Token
10 MQACT-NONE PIC X(32) VALUE LOW-VALUES.

** Put Application Type
10 MQAT-UNKNOWN PIC S9(9) BINARY VALUE -1.
10 MQAT-NO-CONTEXT PIC S9(9) BINARY VALUE 0.
10 MQAT-CICS PIC S9(9) BINARY VALUE 1.
10 MQAT-MVS PIC S9(9) BINARY VALUE 2.
10 MQAT-OS390 PIC S9(9) BINARY VALUE 2.
10 MQAT-ZOS PIC S9(9) BINARY VALUE 2.
10 MQAT-IMS PIC S9(9) BINARY VALUE 3.

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Figure 29 Sample CMQWORK Member (Page 7 of 22)

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10 MQAT-OS2 PIC S9(9) BINARY VALUE 4.
10 MQAT-DOS PIC S9(9) BINARY VALUE 5.
10 MQAT-AIX PIC S9(9) BINARY VALUE 6.
10 MQAT-UNIX PIC S9(9) BINARY VALUE 6.
10 MQAT-QMGR PIC S9(9) BINARY VALUE 7.
10 MQAT-OS400 PIC S9(9) BINARY VALUE 8.
10 MQAT-WINDOWS PIC S9(9) BINARY VALUE 9.
10 MQAT-CICS-VSE PIC S9(9) BINARY VALUE 10.
10 MQAT-WINDOWS-NT PIC S9(9) BINARY VALUE 11.
10 MQAT-VMS PIC S9(9) BINARY VALUE 12.
10 MQAT-GUARDIAN PIC S9(9) BINARY VALUE 13.
10 MQAT-NSK PIC S9(9) BINARY VALUE 13.
10 MQAT-VOS PIC S9(9) BINARY VALUE 14.
10 MQAT-IMS-BRIDGE PIC S9(9) BINARY VALUE 19.
10 MQAT-XCF PIC S9(9) BINARY VALUE 20.
10 MQAT-CICS-BRIDGE PIC S9(9) BINARY VALUE 21.
10 MQAT-NOTES-AGENT PIC S9(9) BINARY VALUE 22.
10 MQAT-USER PIC S9(9) BINARY VALUE 25.
10 MQAT-BROKER PIC S9(9) BINARY VALUE 26.
10 MQAT-JAVA PIC S9(9) BINARY VALUE 28.
10 MQAT-DQM PIC S9(9) BINARY VALUE 29.
10 MQAT-CHANNEL-INITIATOR PIC S9(9) BINARY VALUE 30.
10 MQAT-DEFAULT PIC S9(9) BINARY VALUE 2.
10 MQAT-USER-FIRST PIC S9(9) BINARY VALUE 65536.
10 MQAT-USER-LAST PIC S9(9) BINARY VALUE 99999999.

** Group Identifier
10 MQGI-NONE PIC X(24) VALUE LOW-VALUES.

** Message Flags
10 MQMF-SEGMENTATION-INHIBITED PIC S9(9) BINARY VALUE 0.
10 MQMF-SEGMENTATION-ALLOWED PIC S9(9) BINARY VALUE 1.
10 MQMF-MSG-IN-GROUP PIC S9(9) BINARY VALUE 8.
10 MQMF-LAST-MSG-IN-GROUP PIC S9(9) BINARY VALUE 16.
10 MQMF-SEGMENT PIC S9(9) BINARY VALUE 2.
10 MQMF-LAST-SEGMENT PIC S9(9) BINARY VALUE 4.
10 MQMF-NONE PIC S9(9) BINARY VALUE 0.

** Message Flags Masks
10 MQMF-REJECT-UNSUP-MASK PIC S9(9) BINARY VALUE 4095.
10 MQMF-ACCEPT-UNSUP-MASK PIC S9(9) BINARY VALUE -1048576.
10 MQMF-ACCEPT-UNSUP-IF-XMIT-MASK PIC S9(9) BINARY VALUE 1044480.

** Original Length
10 MQOL-UNDEFINED PIC S9(9) BINARY VALUE -1.

*****
** Values Related to MQMDE Structure **
*****

** Structure Identifier
10 MQMDE-STRUC-ID PIC X(4) VALUE 'MDE '.

** Structure Version Number
10 MQMDE-VERSION-2 PIC S9(9) BINARY VALUE 2.
10 MQMDE-CURRENT-VERSION PIC S9(9) BINARY VALUE 2.

** Structure Length
10 MQMDE-LENGTH-2 PIC S9(9) BINARY VALUE 72.

** General Flags
10 MQMDEF-NONE PIC S9(9) BINARY VALUE 0.

*****
** Values Related to MQOD Structure **
*****

** Structure Identifier
10 MQOD-STRUC-ID PIC X(4) VALUE 'OD '.

** Structure Version Number
10 MQOD-VERSION-1 PIC S9(9) BINARY VALUE 1.

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Figure 29 Sample CMQWORK Member (Page 8 of 22)

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10 MQOD-VERSION-2      PIC S9(9) BINARY VALUE 2.
10 MQOD-VERSION-3      PIC S9(9) BINARY VALUE 3.
10 MQOD-CURRENT-VERSION PIC S9(9) BINARY VALUE 3.

** Structure Length
10 MQOD-CURRENT-LENGTH PIC S9(9) BINARY VALUE 336.

** Object Types
10 MQOT-Q              PIC S9(9) BINARY VALUE 1.
10 MQOT-NAMELIST       PIC S9(9) BINARY VALUE 2.
10 MQOT-PROCESS        PIC S9(9) BINARY VALUE 3.
10 MQOT-STORAGE-CLASS PIC S9(9) BINARY VALUE 4.
10 MQOT-Q-MGR          PIC S9(9) BINARY VALUE 5.
10 MQOT-CHANNEL        PIC S9(9) BINARY VALUE 6.
10 MQOT-AUTH-INFO      PIC S9(9) BINARY VALUE 7.
10 MQOT-CF-STRUC       PIC S9(9) BINARY VALUE 10.
10 MQOT-RESERVED-1     PIC S9(9) BINARY VALUE 999.

** Extended Object Types
10 MQOT-ALL            PIC S9(9) BINARY VALUE 1001.
10 MQOT-ALIAS-Q        PIC S9(9) BINARY VALUE 1002.
10 MQOT-MODEL-Q        PIC S9(9) BINARY VALUE 1003.
10 MQOT-LOCAL-Q        PIC S9(9) BINARY VALUE 1004.
10 MQOT-REMOTE-Q       PIC S9(9) BINARY VALUE 1005.
10 MQOT-SENDER-CHANNEL PIC S9(9) BINARY VALUE 1007.
10 MQOT-SERVER-CHANNEL PIC S9(9) BINARY VALUE 1008.
10 MQOT-REQUESTER-CHANNEL PIC S9(9) BINARY VALUE 1009.
10 MQOT-RECEIVER-CHANNEL PIC S9(9) BINARY VALUE 1010.
10 MQOT-CURRENT-CHANNEL PIC S9(9) BINARY VALUE 1011.
10 MQOT-SAVED-CHANNEL  PIC S9(9) BINARY VALUE 1012.
10 MQOT-SVRCONN-CHANNEL PIC S9(9) BINARY VALUE 1013.
10 MQOT-CLNTCONN-CHANNEL PIC S9(9) BINARY VALUE 1014.

** Security Identifier
10 MQSID-NONE PIC X(40) VALUE LOW-VALUES.

** Security Identifier Type
10 MQSIDT-NONE      PIC X VALUE X'00'.
10 MQSIDT-NT-SECURITY-ID PIC X VALUE X'01'.

*****
** Values Related to MQPMO Structure **
*****

** Structure Identifier
10 MQPMO-STRUC-ID PIC X(4) VALUE 'PMO '.

** Structure Version Number
10 MQPMO-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQPMO-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

** Structure Length
10 MQPMO-CURRENT-LENGTH PIC S9(9) BINARY VALUE 128.

** Put-Message Options
10 MQPMO-SYNCPOINT      PIC S9(9) BINARY VALUE 2.
10 MQPMO-NO-SYNCPOINT   PIC S9(9) BINARY VALUE 4.
10 MQPMO-LOGICAL-ORDER  PIC S9(9) BINARY VALUE 32768.
10 MQPMO-NO-CONTEXT     PIC S9(9) BINARY VALUE 16384.
10 MQPMO-DEFAULT-CONTEXT PIC S9(9) BINARY VALUE 32.
10 MQPMO-PASS-IDENTITY-CONTEXT PIC S9(9) BINARY VALUE 256.
10 MQPMO-PASS-ALL-CONTEXT PIC S9(9) BINARY VALUE 512.
10 MQPMO-SET-IDENTITY-CONTEXT PIC S9(9) BINARY VALUE 1024.
10 MQPMO-SET-ALL-CONTEXT PIC S9(9) BINARY VALUE 2048.
10 MQPMO-ALTERNATE-USER-AUTHORITY PIC S9(9) BINARY VALUE 4096.
10 MQPMO-FAIL-IF-QUIESCING PIC S9(9) BINARY VALUE 8192.
10 MQPMO-NONE           PIC S9(9) BINARY VALUE 0.

*****
** Values Related to MQRFH Structure **
*****

** Structure Identifier
10 MQRFH-STRUC-ID PIC X(4) VALUE 'RFH '.

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Figure 29 Sample CMQWORK Member (Page 9 of 22)

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** Structure Version Number
10 MQRFH-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQRFH-VERSION-2 PIC S9(9) BINARY VALUE 2.

** Structure Length
10 MQRFH-STRUC-LENGTH-FIXED PIC S9(9) BINARY VALUE 32.
10 MQRFH-STRUC-LENGTH-FIXED-2 PIC S9(9) BINARY VALUE 36.

** Flags
10 MQRFH-NONE PIC S9(9) BINARY VALUE 0.

** Names for Name/Value String
10 MQNVS-APPL-TYPE PIC X(12) VALUE 'OPT_APP_GRP '.
10 MQNVS-MSG-TYPE PIC X(13) VALUE 'OPT_MSG_TYPE '.

*****
** Values Related to MQRMH Structure **
*****

** Structure Identifier
10 MQRMH-STRUC-ID PIC X(4) VALUE 'RMH '.

** Structure Version Number
10 MQRMH-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQRMH-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

** Flags
10 MQRMHF-LAST PIC S9(9) BINARY VALUE 1.
10 MQRMHF-NOT-LAST PIC S9(9) BINARY VALUE 0.

** Object Instance Identifier
10 MQOII-NONE PIC X(24) VALUE LOW-VALUES.

*****
** Values Related to MQTM Structure **
*****

** Structure Identifier
10 MQTM-STRUC-ID PIC X(4) VALUE 'TM '.

** Structure Version Number
10 MQTM-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQTM-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

*****
** Values Related to MQTMC2 Structure **
*****

** Structure Identifier
10 MQTMC-STRUC-ID PIC X(4) VALUE 'TMC '.

** Structure Version Number
10 MQTMC-VERSION-1 PIC X(4) VALUE ' 1'.
10 MQTMC-VERSION-2 PIC X(4) VALUE ' 2'.
10 MQTMC-CURRENT-VERSION PIC X(4) VALUE ' 2'.

*****
** Values Related to MQWIH Structure **
*****

** Structure Identifier
10 MQWIH-STRUC-ID PIC X(4) VALUE 'WIH '.

** Structure Version Number
10 MQWIH-VERSION-1 PIC S9(9) BINARY VALUE 1.
10 MQWIH-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

** Structure Length
10 MQWIH-LENGTH-1 PIC S9(9) BINARY VALUE 120.
10 MQWIH-CURRENT-LENGTH PIC S9(9) BINARY VALUE 120.

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Figure 29 Sample CMQWORK Member (Page 10 of 22)


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**  Flags
   10 MQWIH-NONE PIC S9(9) BINARY VALUE 0.

*****
**  Values Related to MQXQH Structure
*****

**  Structure Identifier
   10 MQXQH-STRUC-ID PIC X(4) VALUE 'XQH '.

**  Structure Version Number
   10 MQXQH-VERSION-1 PIC S9(9) BINARY VALUE 1.
   10 MQXQH-CURRENT-VERSION PIC S9(9) BINARY VALUE 1.

*****
**  Values Related to MQCLOSE Call
*****

**  Close Options
   10 MQCO-NONE PIC S9(9) BINARY VALUE 0.
   10 MQCO-DELETE PIC S9(9) BINARY VALUE 1.
   10 MQCO-DELETE-PURGE PIC S9(9) BINARY VALUE 2.

*****
**  Values Related to MQINQ Call
*****

**  Byte-Attribute Selectors
   10 MQBA-FIRST PIC S9(9) BINARY VALUE 6001.
   10 MQBA-LAST PIC S9(9) BINARY VALUE 8000.

**  Character-Attribute Selectors
   10 MQCA-ALTERATION-DATE PIC S9(9) BINARY VALUE 2027.
   10 MQCA-ALTERATION-TIME PIC S9(9) BINARY VALUE 2028.
   10 MQCA-APPL-ID PIC S9(9) BINARY VALUE 2001.
   10 MQCA-AUTH-INFO-CONN-NAME PIC S9(9) BINARY VALUE 2053.
   10 MQCA-AUTH-INFO-DESC PIC S9(9) BINARY VALUE 2046.
   10 MQCA-AUTH-INFO-NAME PIC S9(9) BINARY VALUE 2045.
   10 MQCA-BACKOUT-REQ-Q-NAME PIC S9(9) BINARY VALUE 2019.
   10 MQCA-BASE-Q-NAME PIC S9(9) BINARY VALUE 2002.
   10 MQCA-CF-STRUC-DESC PIC S9(9) BINARY VALUE 2052.
   10 MQCA-CF-STRUC-NAME PIC S9(9) BINARY VALUE 2039.
   10 MQCA-CHANNEL-AUTO-DEF-EXIT PIC S9(9) BINARY VALUE 2026.
   10 MQCA-CLUSTER-DATE PIC S9(9) BINARY VALUE 2037.
   10 MQCA-CLUSTER-NAME PIC S9(9) BINARY VALUE 2029.
   10 MQCA-CLUSTER-NAMELIST PIC S9(9) BINARY VALUE 2030.
   10 MQCA-CLUSTER-Q-MGR-NAME PIC S9(9) BINARY VALUE 2031.
   10 MQCA-CLUSTER-TIME PIC S9(9) BINARY VALUE 2038.
   10 MQCA-CLUSTER-WORKLOAD-DATA PIC S9(9) BINARY VALUE 2034.
   10 MQCA-CLUSTER-WORKLOAD-EXIT PIC S9(9) BINARY VALUE 2033.
   10 MQCA-COMMAND-INPUT-Q-NAME PIC S9(9) BINARY VALUE 2003.
   10 MQCA-CREATION-DATE PIC S9(9) BINARY VALUE 2004.
   10 MQCA-CREATION-TIME PIC S9(9) BINARY VALUE 2005.
   10 MQCA-DEAD-LETTER-Q-NAME PIC S9(9) BINARY VALUE 2006.
   10 MQCA-DEF-XMIT-Q-NAME PIC S9(9) BINARY VALUE 2025.
   10 MQCA-ENV-DATA PIC S9(9) BINARY VALUE 2007.
   10 MQCA-FIRST PIC S9(9) BINARY VALUE 2001.
   10 MQCA-IGQ-USER-ID PIC S9(9) BINARY VALUE 2041.
   10 MQCA-INITIATION-Q-NAME PIC S9(9) BINARY VALUE 2008.
   10 MQCA-LAST PIC S9(9) BINARY VALUE 4000.
   10 MQCA-LAST-USED PIC S9(9) BINARY VALUE 2053.
   10 MQCA-LDAP-PASSWORD PIC S9(9) BINARY VALUE 2048.
   10 MQCA-LDAP-USER-NAME PIC S9(9) BINARY VALUE 2047.
   10 MQCA-NAMELIST-DESC PIC S9(9) BINARY VALUE 2009.
   10 MQCA-NAMELIST-NAME PIC S9(9) BINARY VALUE 2010.
   10 MQCA-NAMES PIC S9(9) BINARY VALUE 2020.
   10 MQCA-PROCESS-DESC PIC S9(9) BINARY VALUE 2011.
   10 MQCA-PROCESS-NAME PIC S9(9) BINARY VALUE 2012.
   10 MQCA-Q-DESC PIC S9(9) BINARY VALUE 2013.
   10 MQCA-Q-MGR-DESC PIC S9(9) BINARY VALUE 2014.
   10 MQCA-Q-MGR-IDENTIFIER PIC S9(9) BINARY VALUE 2032.
   10 MQCA-Q-MGR-NAME PIC S9(9) BINARY VALUE 2015.
   10 MQCA-Q-NAME PIC S9(9) BINARY VALUE 2016.

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10 MQCA-QSG-NAME PIC S9(9) BINARY VALUE 2040.
10 MQCA-REMOTE-Q-MGR-NAME PIC S9(9) BINARY VALUE 2017.
10 MQCA-REMOTE-Q-NAME PIC S9(9) BINARY VALUE 2018.
10 MQCA-REPOSITORY-NAME PIC S9(9) BINARY VALUE 2035.
10 MQCA-REPOSITORY-NAMELIST PIC S9(9) BINARY VALUE 2036.
10 MQCA-SSL-CRL-NAMELIST PIC S9(9) BINARY VALUE 2050.
10 MQCA-SSL-CRYPTO-HARDWARE PIC S9(9) BINARY VALUE 2051.
10 MQCA-SSL-KEY-REPOSITORY PIC S9(9) BINARY VALUE 2049.
10 MQCA-STORAGE-CLASS PIC S9(9) BINARY VALUE 2022.
10 MQCA-STORAGE-CLASS-DESC PIC S9(9) BINARY VALUE 2042.
10 MQCA-TRIGGER-DATA PIC S9(9) BINARY VALUE 2023.
10 MQCA-USER-DATA PIC S9(9) BINARY VALUE 2021.
10 MQCA-USER-LIST PIC S9(9) BINARY VALUE 4000.
10 MQCA-XCF-GROUP-NAME PIC S9(9) BINARY VALUE 2043.
10 MQCA-XCF-MEMBER-NAME PIC S9(9) BINARY VALUE 2044.
10 MQCA-XMIT-Q-NAME PIC S9(9) BINARY VALUE 2024.

** Integer-Attribute Selectors
10 MQIA-APPL-TYPE PIC S9(9) BINARY VALUE 1.
10 MQIA-ARCHIVE PIC S9(9) BINARY VALUE 60.
10 MQIA-AUTH-INFO-TYPE PIC S9(9) BINARY VALUE 66.
10 MQIA-AUTHORITY-EVENT PIC S9(9) BINARY VALUE 47.
10 MQIA-BACKOUT-THRESHOLD PIC S9(9) BINARY VALUE 22.
10 MQIA-CF-LEVEL PIC S9(9) BINARY VALUE 70.
10 MQIA-CF-RECOVER PIC S9(9) BINARY VALUE 71.
10 MQIA-CHANNEL-AUTO-DEF PIC S9(9) BINARY VALUE 55.
10 MQIA-CHANNEL-AUTO-DEF-EVENT PIC S9(9) BINARY VALUE 56.
10 MQIA-CLUSTER-Q-TYPE PIC S9(9) BINARY VALUE 59.
10 MQIA-CLUSTER-WORKLOAD-LENGTH PIC S9(9) BINARY VALUE 58.
10 MQIA-CODED-CHAR-SET-ID PIC S9(9) BINARY VALUE 2.
10 MQIA-COMMAND-LEVEL PIC S9(9) BINARY VALUE 31.
10 MQIA-CONFIGURATION-EVENT PIC S9(9) BINARY VALUE 51.
10 MQIA-CPI-LEVEL PIC S9(9) BINARY VALUE 27.
10 MQIA-CURRENT-Q-DEPTH PIC S9(9) BINARY VALUE 3.
10 MQIA-DEF-BIND PIC S9(9) BINARY VALUE 61.
10 MQIA-DEF-INPUT-OPEN-OPTION PIC S9(9) BINARY VALUE 4.
10 MQIA-DEF-PERSISTENCE PIC S9(9) BINARY VALUE 5.
10 MQIA-DEF-PRIORITY PIC S9(9) BINARY VALUE 6.
10 MQIA-DEFINITION-TYPE PIC S9(9) BINARY VALUE 7.
10 MQIA-DIST-LISTS PIC S9(9) BINARY VALUE 34.
10 MQIA-EXPIRY-INTERVAL PIC S9(9) BINARY VALUE 39.
10 MQIA-FIRST PIC S9(9) BINARY VALUE 1.
10 MQIA-HARDEN-GET-BACKOUT PIC S9(9) BINARY VALUE 8.
10 MQIA-HIGH-Q-DEPTH PIC S9(9) BINARY VALUE 36.
10 MQIA-IGQ-PUT-AUTHORITY PIC S9(9) BINARY VALUE 65.
10 MQIA-INDEX-TYPE PIC S9(9) BINARY VALUE 57.
10 MQIA-INHIBIT-EVENT PIC S9(9) BINARY VALUE 48.
10 MQIA-INHIBIT-GET PIC S9(9) BINARY VALUE 9.
10 MQIA-INHIBIT-PUT PIC S9(9) BINARY VALUE 10.
10 MQIA-INTRA-GROUP-QUEUEING PIC S9(9) BINARY VALUE 64.
10 MQIA-LAST PIC S9(9) BINARY VALUE 2000.
10 MQIA-LAST-USED PIC S9(9) BINARY VALUE 72.
10 MQIA-LOCAL-EVENT PIC S9(9) BINARY VALUE 49.
10 MQIA-MAX-HANDLES PIC S9(9) BINARY VALUE 11.
10 MQIA-MAX-MSG-LENGTH PIC S9(9) BINARY VALUE 13.
10 MQIA-MAX-PRIORITY PIC S9(9) BINARY VALUE 14.
10 MQIA-MAX-Q-DEPTH PIC S9(9) BINARY VALUE 15.
10 MQIA-MAX-UNCOMMITTED-MSGS PIC S9(9) BINARY VALUE 33.
10 MQIA-MSG-DELIVERY-SEQUENCE PIC S9(9) BINARY VALUE 16.
10 MQIA-MSG-DEQ-COUNT PIC S9(9) BINARY VALUE 38.
10 MQIA-MSG-ENQ-COUNT PIC S9(9) BINARY VALUE 37.
10 MQIA-NAME-COUNT PIC S9(9) BINARY VALUE 19.
10 MQIA-NAMELIST-TYPE PIC S9(9) BINARY VALUE 72.
10 MQIA-OPEN-INPUT-COUNT PIC S9(9) BINARY VALUE 17.
10 MQIA-OPEN-OUTPUT-COUNT PIC S9(9) BINARY VALUE 18.
10 MQIA-PAGESET-ID PIC S9(9) BINARY VALUE 62.
10 MQIA-PERFORMANCE-EVENT PIC S9(9) BINARY VALUE 53.
10 MQIA-PLATFORM PIC S9(9) BINARY VALUE 32.
10 MQIA-Q-DEPTH-HIGH-EVENT PIC S9(9) BINARY VALUE 43.
10 MQIA-Q-DEPTH-HIGH-LIMIT PIC S9(9) BINARY VALUE 40.
10 MQIA-Q-DEPTH-LOW-EVENT PIC S9(9) BINARY VALUE 44.
10 MQIA-Q-DEPTH-LOW-LIMIT PIC S9(9) BINARY VALUE 41.
10 MQIA-Q-DEPTH-MAX-EVENT PIC S9(9) BINARY VALUE 42.
10 MQIA-Q-SERVICE-INTERVAL PIC S9(9) BINARY VALUE 54.
10 MQIA-Q-SERVICE-INTERVAL-EVENT PIC S9(9) BINARY VALUE 46.
10 MQIA-Q-TYPE PIC S9(9) BINARY VALUE 20.

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Figure 29 Sample CMQWORK Member (Page 12 of 22)

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10 MQIA-QSG-DISP PIC S9(9) BINARY VALUE 63.
10 MQIA-REMOTE-EVENT PIC S9(9) BINARY VALUE 50.
10 MQIA-RETENTION-INTERVAL PIC S9(9) BINARY VALUE 21.
10 MQIA-SCOPE PIC S9(9) BINARY VALUE 45.
10 MQIA-SHAREABILITY PIC S9(9) BINARY VALUE 23.
10 MQIA-SSL-TASKS PIC S9(9) BINARY VALUE 69.
10 MQIA-START-STOP-EVENT PIC S9(9) BINARY VALUE 52.
10 MQIA-SYNCPOINT PIC S9(9) BINARY VALUE 30.
10 MQIA-TIME-SINCE-RESET PIC S9(9) BINARY VALUE 35.
10 MQIA-TRIGGER-CONTROL PIC S9(9) BINARY VALUE 24.
10 MQIA-TRIGGER-DEPTH PIC S9(9) BINARY VALUE 29.
10 MQIA-TRIGGER-INTERVAL PIC S9(9) BINARY VALUE 25.
10 MQIA-TRIGGER-MSG-PRIORITY PIC S9(9) BINARY VALUE 26.
10 MQIA-TRIGGER-TYPE PIC S9(9) BINARY VALUE 28.
10 MQIA-USAGE PIC S9(9) BINARY VALUE 12.
10 MQIA-USER-LIST PIC S9(9) BINARY VALUE 2000.

** Integer Attribute Value Denoting "Not Applicable"
10 MQIAV-NOT-APPLICABLE PIC S9(9) BINARY VALUE -1.
10 MQIAV-UNDEFINED PIC S9(9) BINARY VALUE -2.

*****
** Values Related to MQOPEN Call **
*****

** Open Options
10 MQOO-INPUT-AS-Q-DEF PIC S9(9) BINARY VALUE 1.
10 MQOO-INPUT-SHARED PIC S9(9) BINARY VALUE 2.
10 MQOO-INPUT-EXCLUSIVE PIC S9(9) BINARY VALUE 4.
10 MQOO-BROWSE PIC S9(9) BINARY VALUE 8.
10 MQOO-OUTPUT PIC S9(9) BINARY VALUE 16.
10 MQOO-INQUIRE PIC S9(9) BINARY VALUE 32.
10 MQOO-SET PIC S9(9) BINARY VALUE 64.
10 MQOO-BIND-ON-OPEN PIC S9(9) BINARY VALUE 16384.
10 MQOO-BIND-NOT-FIXED PIC S9(9) BINARY VALUE 32768.
10 MQOO-BIND-AS-Q-DEF PIC S9(9) BINARY VALUE 0.
10 MQOO-SAVE-ALL-CONTEXT PIC S9(9) BINARY VALUE 128.
10 MQOO-PASS-IDENTITY-CONTEXT PIC S9(9) BINARY VALUE 256.
10 MQOO-PASS-ALL-CONTEXT PIC S9(9) BINARY VALUE 512.
10 MQOO-SET-IDENTITY-CONTEXT PIC S9(9) BINARY VALUE 1024.
10 MQOO-SET-ALL-CONTEXT PIC S9(9) BINARY VALUE 2048.
10 MQOO-ALTERNATE-USER-AUTHORITY PIC S9(9) BINARY VALUE 4096.
10 MQOO-FAIL-IF-QUIESCING PIC S9(9) BINARY VALUE 8192.

*****
** Values Related to All Calls **
*****

** Connection Handle
10 MQHC-DEF-HCONN PIC S9(9) BINARY VALUE 0.

** String Lengths
10 MQ-ABEND-CODE-LENGTH PIC S9(9) BINARY VALUE 4.
10 MQ-ACCOUNTING-TOKEN-LENGTH PIC S9(9) BINARY VALUE 32.
10 MQ-APPL-IDENTITY-DATA-LENGTH PIC S9(9) BINARY VALUE 32.
10 MQ-APPL-NAME-LENGTH PIC S9(9) BINARY VALUE 28.
10 MQ-APPL-ORIGIN-DATA-LENGTH PIC S9(9) BINARY VALUE 4.
10 MQ-APPL-TAG-LENGTH PIC S9(9) BINARY VALUE 28.
10 MQ-ATTENTION-ID-LENGTH PIC S9(9) BINARY VALUE 4.
10 MQ-AUTH-INFO-CONN-NAME-LENGTH PIC S9(9) BINARY VALUE 264.
10 MQ-AUTH-INFO-DESC-LENGTH PIC S9(9) BINARY VALUE 64.
10 MQ-AUTH-INFO-NAME-LENGTH PIC S9(9) BINARY VALUE 48.
10 MQ-AUTHENTICATOR-LENGTH PIC S9(9) BINARY VALUE 8.
10 MQ-BRIDGE-NAME-LENGTH PIC S9(9) BINARY VALUE 24.
10 MQ-CANCEL-CODE-LENGTH PIC S9(9) BINARY VALUE 4.
10 MQ-CF-STRUC-DESC-LENGTH PIC S9(9) BINARY VALUE 64.
10 MQ-CF-STRUC-NAME-LENGTH PIC S9(9) BINARY VALUE 12.
10 MQ-CHANNEL-DATE-LENGTH PIC S9(9) BINARY VALUE 12.
10 MQ-CHANNEL-DESC-LENGTH PIC S9(9) BINARY VALUE 64.
10 MQ-CHANNEL-NAME-LENGTH PIC S9(9) BINARY VALUE 20.
10 MQ-CHANNEL-TIME-LENGTH PIC S9(9) BINARY VALUE 8.
10 MQ-CLUSTER-NAME-LENGTH PIC S9(9) BINARY VALUE 48.
10 MQ-CONN-NAME-LENGTH PIC S9(9) BINARY VALUE 264.
10 MQ-CONN-TAG-LENGTH PIC S9(9) BINARY VALUE 128.

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Figure 29 Sample CMQWORK Member (Page 13 of 22)

10 MQ-CORREL-ID-LENGTH	PIC S9(9)	BINARY VALUE	24.
10 MQ-CREATION-DATE-LENGTH	PIC S9(9)	BINARY VALUE	12.
10 MQ-CREATION-TIME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-DATE-LENGTH	PIC S9(9)	BINARY VALUE	12.
10 MQ-DISTINGUISHED-NAME-LENGTH	PIC S9(9)	BINARY VALUE	1024.
10 MQ-EXIT-DATA-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-EXIT-NAME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-EXIT-USER-AREA-LENGTH	PIC S9(9)	BINARY VALUE	16.
10 MQ-FACILITY-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-FACILITY-LIKE-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-FORMAT-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-FUNCTION-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-GROUP-ID-LENGTH	PIC S9(9)	BINARY VALUE	24.
10 MQ-LDAP-PASSWORD-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-LOCAL-ADDRESS-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-LTERM-OVERRIDE-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-LUWID-LENGTH	PIC S9(9)	BINARY VALUE	16.
10 MQ-MAX-EXIT-NAME-LENGTH	PIC S9(9)	BINARY VALUE	128.
10 MQ-MAX-MCA-USER-ID-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-MAX-USER-ID-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-MCA-JOB-NAME-LENGTH	PIC S9(9)	BINARY VALUE	28.
10 MQ-MCA-NAME-LENGTH	PIC S9(9)	BINARY VALUE	20.
10 MQ-MCA-USER-DATA-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-MCA-USER-ID-LENGTH	PIC S9(9)	BINARY VALUE	12.
10 MQ-MFS-MAP-NAME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-MODE-NAME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-MSG-HEADER-LENGTH	PIC S9(9)	BINARY VALUE	4000.
10 MQ-MSG-ID-LENGTH	PIC S9(9)	BINARY VALUE	24.
10 MQ-MSG-TOKEN-LENGTH	PIC S9(9)	BINARY VALUE	16.
10 MQ-NAMELIST-DESC-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-NAMELIST-NAME-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-OBJECT-INSTANCE-ID-LENGTH	PIC S9(9)	BINARY VALUE	24.
10 MQ-OBJECT-NAME-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-PASSWORD-LENGTH	PIC S9(9)	BINARY VALUE	12.
10 MQ-PROCESS-APPL-ID-LENGTH	PIC S9(9)	BINARY VALUE	256.
10 MQ-PROCESS-DESC-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-PROCESS-ENV-DATA-LENGTH	PIC S9(9)	BINARY VALUE	128.
10 MQ-PROCESS-NAME-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-PROCESS-USER-DATA-LENGTH	PIC S9(9)	BINARY VALUE	128.
10 MQ-PROGRAM-NAME-LENGTH	PIC S9(9)	BINARY VALUE	20.
10 MQ-PUT-APPL-NAME-LENGTH	PIC S9(9)	BINARY VALUE	28.
10 MQ-PUT-DATE-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-PUT-TIME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-Q-DESC-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-Q-MGR-DESC-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-Q-MGR-IDENTIFIER-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-Q-MGR-NAME-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-Q-NAME-LENGTH	PIC S9(9)	BINARY VALUE	48.
10 MQ-QSG-NAME-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-REMOTE-SYS-ID-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-SECURITY-ID-LENGTH	PIC S9(9)	BINARY VALUE	40.
10 MQ-SERVICE-NAME-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-SERVICE-STEP-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-SHORT-CONN-NAME-LENGTH	PIC S9(9)	BINARY VALUE	20.
10 MQ-SSL-CIPHER-SPEC-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-SSL-CRYPTO-HARDWARE-LENGTH	PIC S9(9)	BINARY VALUE	256.
10 MQ-SSL-HANDSHAKE-STAGE-LENGTH	PIC S9(9)	BINARY VALUE	32.
10 MQ-SSL-KEY-REPOSITORY-LENGTH	PIC S9(9)	BINARY VALUE	256.
10 MQ-SSL-PEER-NAME-LENGTH	PIC S9(9)	BINARY VALUE	1024.
10 MQ-SSL-SHORT-PEER-NAME-LENGTH	PIC S9(9)	BINARY VALUE	256.
10 MQ-START-CODE-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-STORAGE-CLASS-DESC-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-STORAGE-CLASS-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-SUB-IDENTITY-LENGTH	PIC S9(9)	BINARY VALUE	128.
10 MQ-TIME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-TOTAL-EXIT-DATA-LENGTH	PIC S9(9)	BINARY VALUE	999.
10 MQ-TOTAL-EXIT-NAME-LENGTH	PIC S9(9)	BINARY VALUE	999.
10 MQ-TP-NAME-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-TRAN-INSTANCE-ID-LENGTH	PIC S9(9)	BINARY VALUE	16.
10 MQ-TRANSACTION-ID-LENGTH	PIC S9(9)	BINARY VALUE	4.
10 MQ-TRIGGER-DATA-LENGTH	PIC S9(9)	BINARY VALUE	64.
10 MQ-USER-ID-LENGTH	PIC S9(9)	BINARY VALUE	12.
10 MQ-XCF-GROUP-NAME-LENGTH	PIC S9(9)	BINARY VALUE	8.
10 MQ-XCF-MEMBER-NAME-LENGTH	PIC S9(9)	BINARY VALUE	16.

** Completion Codes

Figure 29 Sample CMQWORK Member (Page 14 of 22)

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10 MQCC-OK          PIC S9(9) BINARY VALUE 0.
10 MQCC-WARNING    PIC S9(9) BINARY VALUE 1.
10 MQCC-FAILED     PIC S9(9) BINARY VALUE 2.
10 MQCC-UNKNOWN    PIC S9(9) BINARY VALUE -1.

** Reason Codes
10 MQRC-NONE       PIC S9(9) BINARY VALUE 0.
10 MQRC-APPL-FIRST PIC S9(9) BINARY VALUE 900.
10 MQRC-APPL-LAST  PIC S9(9) BINARY VALUE 999.
10 MQRC-ALIAS-BASE-Q-TYPE-ERROR PIC S9(9) BINARY VALUE 2001.
10 MQRC-ALREADY-CONNECTED PIC S9(9) BINARY VALUE 2002.
10 MQRC-BACKED-OUT PIC S9(9) BINARY VALUE 2003.
10 MQRC-BUFFER-ERROR PIC S9(9) BINARY VALUE 2004.
10 MQRC-BUFFER-LENGTH-ERROR PIC S9(9) BINARY VALUE 2005.
10 MQRC-CHAR-ATTR-LENGTH-ERROR PIC S9(9) BINARY VALUE 2006.
10 MQRC-CHAR-ATTRS-ERROR PIC S9(9) BINARY VALUE 2007.
10 MQRC-CHAR-ATTRS-TOO-SHORT PIC S9(9) BINARY VALUE 2008.
10 MQRC-CONNECTION-BROKEN PIC S9(9) BINARY VALUE 2009.
10 MQRC-DATA-LENGTH-ERROR PIC S9(9) BINARY VALUE 2010.
10 MQRC-DYNAMIC-Q-NAME-ERROR PIC S9(9) BINARY VALUE 2011.
10 MQRC-ENVIRONMENT-ERROR PIC S9(9) BINARY VALUE 2012.
10 MQRC-EXPIRY-ERROR PIC S9(9) BINARY VALUE 2013.
10 MQRC-FEEDBACK-ERROR PIC S9(9) BINARY VALUE 2014.
10 MQRC-GET-INHIBITED PIC S9(9) BINARY VALUE 2016.
10 MQRC-HANDLE-NOT-AVAILABLE PIC S9(9) BINARY VALUE 2017.
10 MQRC-HCONN-ERROR PIC S9(9) BINARY VALUE 2018.
10 MQRC-HOBJ-ERROR PIC S9(9) BINARY VALUE 2019.
10 MQRC-INHIBIT-VALUE-ERROR PIC S9(9) BINARY VALUE 2020.
10 MQRC-INT-ATTR-COUNT-ERROR PIC S9(9) BINARY VALUE 2021.
10 MQRC-INT-ATTR-COUNT-TOO-SMALL PIC S9(9) BINARY VALUE 2022.
10 MQRC-INT-ATTRS-ARRAY-ERROR PIC S9(9) BINARY VALUE 2023.
10 MQRC-SYNCPPOINT-LIMIT-REACHED PIC S9(9) BINARY VALUE 2024.
10 MQRC-MAX-CONNS-LIMIT-REACHED PIC S9(9) BINARY VALUE 2025.
10 MQRC-MD-ERROR PIC S9(9) BINARY VALUE 2026.
10 MQRC-MISSING-REPLY-TO-Q PIC S9(9) BINARY VALUE 2027.
10 MQRC-MSG-TYPE-ERROR PIC S9(9) BINARY VALUE 2029.
10 MQRC-MSG-TOO-BIG-FOR-Q PIC S9(9) BINARY VALUE 2030.
10 MQRC-MSG-TOO-BIG-FOR-Q-MGR PIC S9(9) BINARY VALUE 2031.
10 MQRC-NO-MSG-AVAILABLE PIC S9(9) BINARY VALUE 2033.
10 MQRC-NO-MSG-UNDER-CURSOR PIC S9(9) BINARY VALUE 2034.
10 MQRC-NOT-AUTHORIZED PIC S9(9) BINARY VALUE 2035.
10 MQRC-NOT-OPEN-FOR-BROWSE PIC S9(9) BINARY VALUE 2036.
10 MQRC-NOT-OPEN-FOR-INPUT PIC S9(9) BINARY VALUE 2037.
10 MQRC-NOT-OPEN-FOR-INQUIRE PIC S9(9) BINARY VALUE 2038.
10 MQRC-NOT-OPEN-FOR-OUTPUT PIC S9(9) BINARY VALUE 2039.
10 MQRC-NOT-OPEN-FOR-SET PIC S9(9) BINARY VALUE 2040.
10 MQRC-OBJECT-CHANGED PIC S9(9) BINARY VALUE 2041.
10 MQRC-OBJECT-IN-USE PIC S9(9) BINARY VALUE 2042.
10 MQRC-OBJECT-TYPE-ERROR PIC S9(9) BINARY VALUE 2043.
10 MQRC-OD-ERROR PIC S9(9) BINARY VALUE 2044.
10 MQRC-OPTION-NOT-VALID-FOR-TYPE PIC S9(9) BINARY VALUE 2045.
10 MQRC-OPTIONS-ERROR PIC S9(9) BINARY VALUE 2046.
10 MQRC-PERSISTENCE-ERROR PIC S9(9) BINARY VALUE 2047.
10 MQRC-PERSISTENT-NOT-ALLOWED PIC S9(9) BINARY VALUE 2048.
10 MQRC-PRIORITY-EXCEEDS-MAXIMUM PIC S9(9) BINARY VALUE 2049.
10 MQRC-PRIORITY-ERROR PIC S9(9) BINARY VALUE 2050.
10 MQRC-PUT-INHIBITED PIC S9(9) BINARY VALUE 2051.
10 MQRC-Q-DELETED PIC S9(9) BINARY VALUE 2052.
10 MQRC-Q-FULL PIC S9(9) BINARY VALUE 2053.
10 MQRC-Q-NOT-EMPTY PIC S9(9) BINARY VALUE 2055.
10 MQRC-Q-SPACE-NOT-AVAILABLE PIC S9(9) BINARY VALUE 2056.
10 MQRC-Q-TYPE-ERROR PIC S9(9) BINARY VALUE 2057.
10 MQRC-Q-MGR-NAME-ERROR PIC S9(9) BINARY VALUE 2058.
10 MQRC-Q-MGR-NOT-AVAILABLE PIC S9(9) BINARY VALUE 2059.
10 MQRC-REPORT-OPTIONS-ERROR PIC S9(9) BINARY VALUE 2061.
10 MQRC-SECOND-MARK-NOT-ALLOWED PIC S9(9) BINARY VALUE 2062.
10 MQRC-SECURITY-ERROR PIC S9(9) BINARY VALUE 2063.
10 MQRC-SELECTOR-COUNT-ERROR PIC S9(9) BINARY VALUE 2065.
10 MQRC-SELECTOR-LIMIT-EXCEEDED PIC S9(9) BINARY VALUE 2066.
10 MQRC-SELECTOR-ERROR PIC S9(9) BINARY VALUE 2067.
10 MQRC-SELECTOR-NOT-FOR-TYPE PIC S9(9) BINARY VALUE 2068.
10 MQRC-SIGNAL-OUTSTANDING PIC S9(9) BINARY VALUE 2069.
10 MQRC-SIGNAL-REQUEST-ACCEPTED PIC S9(9) BINARY VALUE 2070.
10 MQRC-STORAGE-NOT-AVAILABLE PIC S9(9) BINARY VALUE 2071.
10 MQRC-SYNCPPOINT-NOT-AVAILABLE PIC S9(9) BINARY VALUE 2072.
10 MQRC-TRIGGER-CONTROL-ERROR PIC S9(9) BINARY VALUE 2075.

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Figure 29 Sample CMQWORK Member (Page 15 of 22)

10	MQRC-TRIGGER-DEPTH-ERROR	PIC S9(9)	BINARY VALUE	2076.
10	MQRC-TRIGGER-MSG-PRIORITY-ERR	PIC S9(9)	BINARY VALUE	2077.
10	MQRC-TRIGGER-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2078.
10	MQRC-TRUNCATED-MSG-ACCEPTED	PIC S9(9)	BINARY VALUE	2079.
10	MQRC-TRUNCATED-MSG-FAILED	PIC S9(9)	BINARY VALUE	2080.
10	MQRC-UNKNOWN-ALIAS-BASE-Q	PIC S9(9)	BINARY VALUE	2082.
10	MQRC-UNKNOWN-OBJECT-NAME	PIC S9(9)	BINARY VALUE	2085.
10	MQRC-UNKNOWN-OBJECT-Q-MGR	PIC S9(9)	BINARY VALUE	2086.
10	MQRC-UNKNOWN-REMOTE-Q-MGR	PIC S9(9)	BINARY VALUE	2087.
10	MQRC-WAIT-INTERVAL-ERROR	PIC S9(9)	BINARY VALUE	2090.
10	MQRC-XMIT-Q-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2091.
10	MQRC-XMIT-Q-USAGE-ERROR	PIC S9(9)	BINARY VALUE	2092.
10	MQRC-NOT-OPEN-FOR-PASS-ALL	PIC S9(9)	BINARY VALUE	2093.
10	MQRC-NOT-OPEN-FOR-PASS-IDENT	PIC S9(9)	BINARY VALUE	2094.
10	MQRC-NOT-OPEN-FOR-SET-ALL	PIC S9(9)	BINARY VALUE	2095.
10	MQRC-NOT-OPEN-FOR-SET-IDENT	PIC S9(9)	BINARY VALUE	2096.
10	MQRC-CONTEXT-HANDLE-ERROR	PIC S9(9)	BINARY VALUE	2097.
10	MQRC-CONTEXT-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2098.
10	MQRC-SIGNAL1-ERROR	PIC S9(9)	BINARY VALUE	2099.
10	MQRC-OBJECT-ALREADY-EXISTS	PIC S9(9)	BINARY VALUE	2100.
10	MQRC-OBJECT-DAMAGED	PIC S9(9)	BINARY VALUE	2101.
10	MQRC-RESOURCE-PROBLEM	PIC S9(9)	BINARY VALUE	2102.
10	MQRC-ANOTHER-Q-MGR-CONNECTED	PIC S9(9)	BINARY VALUE	2103.
10	MQRC-UNKNOWN-REPORT-OPTION	PIC S9(9)	BINARY VALUE	2104.
10	MQRC-STORAGE-CLASS-ERROR	PIC S9(9)	BINARY VALUE	2105.
10	MQRC-COD-NOT-VALID-FOR-XCF-Q	PIC S9(9)	BINARY VALUE	2106.
10	MQRC-SUPPRESSED-BY-EXIT	PIC S9(9)	BINARY VALUE	2109.
10	MQRC-FORMAT-ERROR	PIC S9(9)	BINARY VALUE	2110.
10	MQRC-SOURCE-CCSID-ERROR	PIC S9(9)	BINARY VALUE	2111.
10	MQRC-SOURCE-INTEG-ENC-ERROR	PIC S9(9)	BINARY VALUE	2112.
10	MQRC-SOURCE-DECIMAL-ENC-ERROR	PIC S9(9)	BINARY VALUE	2113.
10	MQRC-SOURCE-FLOAT-ENC-ERROR	PIC S9(9)	BINARY VALUE	2114.
10	MQRC-TARGET-CCSID-ERROR	PIC S9(9)	BINARY VALUE	2115.
10	MQRC-TARGET-INTEG-ENC-ERROR	PIC S9(9)	BINARY VALUE	2116.
10	MQRC-TARGET-DECIMAL-ENC-ERROR	PIC S9(9)	BINARY VALUE	2117.
10	MQRC-TARGET-FLOAT-ENC-ERROR	PIC S9(9)	BINARY VALUE	2118.
10	MQRC-NOT-CONVERTED	PIC S9(9)	BINARY VALUE	2119.
10	MQRC-CONVERTED-MSG-TOO-BIG	PIC S9(9)	BINARY VALUE	2120.
10	MQRC-TRUNCATED	PIC S9(9)	BINARY VALUE	2120.
10	MQRC-NO-EXTERNAL-PARTICIPANTS	PIC S9(9)	BINARY VALUE	2121.
10	MQRC-PARTICIPANT-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2122.
10	MQRC-OUTCOME-MIXED	PIC S9(9)	BINARY VALUE	2123.
10	MQRC-OUTCOME-PENDING	PIC S9(9)	BINARY VALUE	2124.
10	MQRC-BRIDGE-STARTED	PIC S9(9)	BINARY VALUE	2125.
10	MQRC-BRIDGE-STOPPED	PIC S9(9)	BINARY VALUE	2126.
10	MQRC-ADAPTER-STORAGE-SHORTAGE	PIC S9(9)	BINARY VALUE	2127.
10	MQRC-UOW-IN-PROGRESS	PIC S9(9)	BINARY VALUE	2128.
10	MQRC-ADAPTER-CONN-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2129.
10	MQRC-ADAPTER-SERV-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2130.
10	MQRC-ADAPTER-DEFS-ERROR	PIC S9(9)	BINARY VALUE	2131.
10	MQRC-ADAPTER-DEFS-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2132.
10	MQRC-ADAPTER-CONV-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2133.
10	MQRC-BO-ERROR	PIC S9(9)	BINARY VALUE	2134.
10	MQRC-DH-ERROR	PIC S9(9)	BINARY VALUE	2135.
10	MQRC-MULTIPLE-REASONS	PIC S9(9)	BINARY VALUE	2136.
10	MQRC-OPEN-FAILED	PIC S9(9)	BINARY VALUE	2137.
10	MQRC-ADAPTER-DISC-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2138.
10	MQRC-CNO-ERROR	PIC S9(9)	BINARY VALUE	2139.
10	MQRC-CICS-WAIT-FAILED	PIC S9(9)	BINARY VALUE	2140.
10	MQRC-DLH-ERROR	PIC S9(9)	BINARY VALUE	2141.
10	MQRC-HEADER-ERROR	PIC S9(9)	BINARY VALUE	2142.
10	MQRC-SOURCE-LENGTH-ERROR	PIC S9(9)	BINARY VALUE	2143.
10	MQRC-TARGET-LENGTH-ERROR	PIC S9(9)	BINARY VALUE	2144.
10	MQRC-SOURCE-BUFFER-ERROR	PIC S9(9)	BINARY VALUE	2145.
10	MQRC-TARGET-BUFFER-ERROR	PIC S9(9)	BINARY VALUE	2146.
10	MQRC-I IH-ERROR	PIC S9(9)	BINARY VALUE	2148.
10	MQRC-PCF-ERROR	PIC S9(9)	BINARY VALUE	2149.
10	MQRC-DBCS-ERROR	PIC S9(9)	BINARY VALUE	2150.
10	MQRC-OBJECT-NAME-ERROR	PIC S9(9)	BINARY VALUE	2152.
10	MQRC-OBJECT-Q-MGR-NAME-ERROR	PIC S9(9)	BINARY VALUE	2153.
10	MQRC-RECS-PRESENT-ERROR	PIC S9(9)	BINARY VALUE	2154.
10	MQRC-OBJECT-RECORDS-ERROR	PIC S9(9)	BINARY VALUE	2155.
10	MQRC-RESPONSE-RECORDS-ERROR	PIC S9(9)	BINARY VALUE	2156.
10	MQRC-ASID-MISMATCH	PIC S9(9)	BINARY VALUE	2157.
10	MQRC-PMO-RECORD-FLAGS-ERROR	PIC S9(9)	BINARY VALUE	2158.
10	MQRC-PUT-MSG-RECORDS-ERROR	PIC S9(9)	BINARY VALUE	2159.

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10	MQRC-CONN-ID-IN-USE	PIC S9(9)	BINARY VALUE	2160.
10	MQRC-Q-MGR-QUIESCING	PIC S9(9)	BINARY VALUE	2161.
10	MQRC-Q-MGR-STOPPING	PIC S9(9)	BINARY VALUE	2162.
10	MQRC-DUPLICATE-RECOV-COORD	PIC S9(9)	BINARY VALUE	2163.
10	MQRC-PMO-ERROR	PIC S9(9)	BINARY VALUE	2173.
10	MQRC-API-EXIT-NOT-FOUND	PIC S9(9)	BINARY VALUE	2182.
10	MQRC-API-EXIT-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2183.
10	MQRC-REMOTE-Q-NAME-ERROR	PIC S9(9)	BINARY VALUE	2184.
10	MQRC-INCONSISTENT-PERSISTENCE	PIC S9(9)	BINARY VALUE	2185.
10	MQRC-GMO-ERROR	PIC S9(9)	BINARY VALUE	2186.
10	MQRC-CICS-BRIDGE-RESTRICTION	PIC S9(9)	BINARY VALUE	2187.
10	MQRC-STOPPED-BY-CLUSTER-EXIT	PIC S9(9)	BINARY VALUE	2188.
10	MQRC-CLUSTER-RESOLUTION-ERROR	PIC S9(9)	BINARY VALUE	2189.
10	MQRC-CONVERTED-STRING-TOO-BIG	PIC S9(9)	BINARY VALUE	2190.
10	MQRC-TMC-ERROR	PIC S9(9)	BINARY VALUE	2191.
10	MQRC-PAGESET-FULL	PIC S9(9)	BINARY VALUE	2192.
10	MQRC-STORAGE-MEDIUM-FULL	PIC S9(9)	BINARY VALUE	2192.
10	MQRC-PAGESET-ERROR	PIC S9(9)	BINARY VALUE	2193.
10	MQRC-NAME-NOT-VALID-FOR-TYPE	PIC S9(9)	BINARY VALUE	2194.
10	MQRC-UNEXPECTED-ERROR	PIC S9(9)	BINARY VALUE	2195.
10	MQRC-UNKNOWN-XMIT-Q	PIC S9(9)	BINARY VALUE	2196.
10	MQRC-UNKNOWN-DEF-XMIT-Q	PIC S9(9)	BINARY VALUE	2197.
10	MQRC-DEF-XMIT-Q-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2198.
10	MQRC-DEF-XMIT-Q-USAGE-ERROR	PIC S9(9)	BINARY VALUE	2199.
10	MQRC-NAME-IN-USE	PIC S9(9)	BINARY VALUE	2201.
10	MQRC-CONNECTION-QUIESCING	PIC S9(9)	BINARY VALUE	2202.
10	MQRC-CONNECTION-STOPPING	PIC S9(9)	BINARY VALUE	2203.
10	MQRC-ADAPTER-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2204.
10	MQRC-MSG-ID-ERROR	PIC S9(9)	BINARY VALUE	2206.
10	MQRC-CORREL-ID-ERROR	PIC S9(9)	BINARY VALUE	2207.
10	MQRC-FILE-SYSTEM-ERROR	PIC S9(9)	BINARY VALUE	2208.
10	MQRC-NO-MSG-LOCKED	PIC S9(9)	BINARY VALUE	2209.
10	MQRC-FILE-NOT-AUDITED	PIC S9(9)	BINARY VALUE	2216.
10	MQRC-CONNECTION-NOT-AUTHORIZED	PIC S9(9)	BINARY VALUE	2217.
10	MQRC-MSG-TOO-BIG-FOR-CHANNEL	PIC S9(9)	BINARY VALUE	2218.
10	MQRC-CALL-IN-PROGRESS	PIC S9(9)	BINARY VALUE	2219.
10	MQRC-RMH-ERROR	PIC S9(9)	BINARY VALUE	2220.
10	MQRC-Q-MGR-ACTIVE	PIC S9(9)	BINARY VALUE	2222.
10	MQRC-Q-MGR-NOT-ACTIVE	PIC S9(9)	BINARY VALUE	2223.
10	MQRC-Q-DEPTH-HIGH	PIC S9(9)	BINARY VALUE	2224.
10	MQRC-Q-DEPTH-LOW	PIC S9(9)	BINARY VALUE	2225.
10	MQRC-Q-SERVICE-INTERVAL-HIGH	PIC S9(9)	BINARY VALUE	2226.
10	MQRC-Q-SERVICE-INTERVAL-OK	PIC S9(9)	BINARY VALUE	2227.
10	MQRC-UNIT-OF-WORK-NOT-STARTED	PIC S9(9)	BINARY VALUE	2232.
10	MQRC-CHANNEL-AUTO-DEF-OK	PIC S9(9)	BINARY VALUE	2233.
10	MQRC-CHANNEL-AUTO-DEF-ERROR	PIC S9(9)	BINARY VALUE	2234.
10	MQRC-CFH-ERROR	PIC S9(9)	BINARY VALUE	2235.
10	MQRC-CFIL-ERROR	PIC S9(9)	BINARY VALUE	2236.
10	MQRC-CFIN-ERROR	PIC S9(9)	BINARY VALUE	2237.
10	MQRC-CFSL-ERROR	PIC S9(9)	BINARY VALUE	2238.
10	MQRC-CFST-ERROR	PIC S9(9)	BINARY VALUE	2239.
10	MQRC-INCOMPLETE-GROUP	PIC S9(9)	BINARY VALUE	2241.
10	MQRC-INCOMPLETE-MSG	PIC S9(9)	BINARY VALUE	2242.
10	MQRC-INCONSISTENT-CCSIDS	PIC S9(9)	BINARY VALUE	2243.
10	MQRC-INCONSISTENT-ENCODINGS	PIC S9(9)	BINARY VALUE	2244.
10	MQRC-INCONSISTENT-UOW	PIC S9(9)	BINARY VALUE	2245.
10	MQRC-INVALID-MSG-UNDER-CURSOR	PIC S9(9)	BINARY VALUE	2246.
10	MQRC-MATCH-OPTIONS-ERROR	PIC S9(9)	BINARY VALUE	2247.
10	MQRC-MDE-ERROR	PIC S9(9)	BINARY VALUE	2248.
10	MQRC-MSG-FLAGS-ERROR	PIC S9(9)	BINARY VALUE	2249.
10	MQRC-MSG-SEQ-NUMBER-ERROR	PIC S9(9)	BINARY VALUE	2250.
10	MQRC-OFFSET-ERROR	PIC S9(9)	BINARY VALUE	2251.
10	MQRC-ORIGINAL-LENGTH-ERROR	PIC S9(9)	BINARY VALUE	2252.
10	MQRC-SEGMENT-LENGTH-ZERO	PIC S9(9)	BINARY VALUE	2253.
10	MQRC-UOW-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2255.
10	MQRC-WRONG-GMO-VERSION	PIC S9(9)	BINARY VALUE	2256.
10	MQRC-WRONG-MD-VERSION	PIC S9(9)	BINARY VALUE	2257.
10	MQRC-GROUP-ID-ERROR	PIC S9(9)	BINARY VALUE	2258.
10	MQRC-INCONSISTENT-BROWSE	PIC S9(9)	BINARY VALUE	2259.
10	MQRC-XQH-ERROR	PIC S9(9)	BINARY VALUE	2260.
10	MQRC-SRC-ENV-ERROR	PIC S9(9)	BINARY VALUE	2261.
10	MQRC-SRC-NAME-ERROR	PIC S9(9)	BINARY VALUE	2262.
10	MQRC-DEST-ENV-ERROR	PIC S9(9)	BINARY VALUE	2263.
10	MQRC-DEST-NAME-ERROR	PIC S9(9)	BINARY VALUE	2264.
10	MQRC-TM-ERROR	PIC S9(9)	BINARY VALUE	2265.
10	MQRC-CLUSTER-EXIT-ERROR	PIC S9(9)	BINARY VALUE	2266.

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10	MQRC-CLUSTER-EXIT-LOAD-ERROR	PIC S9(9)	BINARY VALUE	2267.
10	MQRC-CLUSTER-PUT-INHIBITED	PIC S9(9)	BINARY VALUE	2268.
10	MQRC-CLUSTER-RESOURCE-ERROR	PIC S9(9)	BINARY VALUE	2269.
10	MQRC-NO-DESTINATIONS-AVAILABLE	PIC S9(9)	BINARY VALUE	2270.
10	MQRC-CONN-TAG-IN-USE	PIC S9(9)	BINARY VALUE	2271.
10	MQRC-PARTIALLY-CONVERTED	PIC S9(9)	BINARY VALUE	2272.
10	MQRC-CONNECTION-ERROR	PIC S9(9)	BINARY VALUE	2273.
10	MQRC-OPTION-ENVIRONMENT-ERROR	PIC S9(9)	BINARY VALUE	2274.
10	MQRC-CD-ERROR	PIC S9(9)	BINARY VALUE	2277.
10	MQRC-CLIENT-CONN-ERROR	PIC S9(9)	BINARY VALUE	2278.
10	MQRC-CHANNEL-STOPPED-BY-USER	PIC S9(9)	BINARY VALUE	2279.
10	MQRC-HCONFIG-ERROR	PIC S9(9)	BINARY VALUE	2280.
10	MQRC-FUNCTION-ERROR	PIC S9(9)	BINARY VALUE	2281.
10	MQRC-CHANNEL-STARTED	PIC S9(9)	BINARY VALUE	2282.
10	MQRC-CHANNEL-STOPPED	PIC S9(9)	BINARY VALUE	2283.
10	MQRC-CHANNEL-CONV-ERROR	PIC S9(9)	BINARY VALUE	2284.
10	MQRC-SERVICE-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2285.
10	MQRC-INITIALIZATION-FAILED	PIC S9(9)	BINARY VALUE	2286.
10	MQRC-TERMINATION-FAILED	PIC S9(9)	BINARY VALUE	2287.
10	MQRC-UNKNOWN-Q-NAME	PIC S9(9)	BINARY VALUE	2288.
10	MQRC-SERVICE-ERROR	PIC S9(9)	BINARY VALUE	2289.
10	MQRC-Q-ALREADY-EXISTS	PIC S9(9)	BINARY VALUE	2290.
10	MQRC-USER-ID-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2291.
10	MQRC-UNKNOWN-ENTITY	PIC S9(9)	BINARY VALUE	2292.
10	MQRC-UNKNOWN-AUTH-ENTITY	PIC S9(9)	BINARY VALUE	2293.
10	MQRC-UNKNOWN-REF-OBJECT	PIC S9(9)	BINARY VALUE	2294.
10	MQRC-CHANNEL-ACTIVATED	PIC S9(9)	BINARY VALUE	2295.
10	MQRC-CHANNEL-NOT-ACTIVATED	PIC S9(9)	BINARY VALUE	2296.
10	MQRC-UOW-CANCELED	PIC S9(9)	BINARY VALUE	2297.
10	MQRC-FUNCTION-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2298.
10	MQRC-SELECTOR-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2299.
10	MQRC-COMMAND-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2300.
10	MQRC-MULTIPLE-INSTANCE-ERROR	PIC S9(9)	BINARY VALUE	2301.
10	MQRC-SYSTEM-ITEM-NOT-ALTERABLE	PIC S9(9)	BINARY VALUE	2302.
10	MQRC-BAG-CONVERSION-ERROR	PIC S9(9)	BINARY VALUE	2303.
10	MQRC-SELECTOR-OUT-OF-RANGE	PIC S9(9)	BINARY VALUE	2304.
10	MQRC-SELECTOR-NOT-UNIQUE	PIC S9(9)	BINARY VALUE	2305.
10	MQRC-INDEX-NOT-PRESENT	PIC S9(9)	BINARY VALUE	2306.
10	MQRC-STRING-ERROR	PIC S9(9)	BINARY VALUE	2307.
10	MQRC-ENCODING-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2308.
10	MQRC-SELECTOR-NOT-PRESENT	PIC S9(9)	BINARY VALUE	2309.
10	MQRC-OUT-SELECTOR-ERROR	PIC S9(9)	BINARY VALUE	2310.
10	MQRC-STRING-TRUNCATED	PIC S9(9)	BINARY VALUE	2311.
10	MQRC-SELECTOR-WRONG-TYPE	PIC S9(9)	BINARY VALUE	2312.
10	MQRC-INCONSISTENT-ITEM-TYPE	PIC S9(9)	BINARY VALUE	2313.
10	MQRC-INDEX-ERROR	PIC S9(9)	BINARY VALUE	2314.
10	MQRC-SYSTEM-BAG-NOT-ALTERABLE	PIC S9(9)	BINARY VALUE	2315.
10	MQRC-ITEM-COUNT-ERROR	PIC S9(9)	BINARY VALUE	2316.
10	MQRC-FORMAT-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2317.
10	MQRC-SELECTOR-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2318.
10	MQRC-ITEM-VALUE-ERROR	PIC S9(9)	BINARY VALUE	2319.
10	MQRC-HBAG-ERROR	PIC S9(9)	BINARY VALUE	2320.
10	MQRC-PARAMETER-MISSING	PIC S9(9)	BINARY VALUE	2321.
10	MQRC-CMD-SERVER-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2322.
10	MQRC-STRING-LENGTH-ERROR	PIC S9(9)	BINARY VALUE	2323.
10	MQRC-INQUIRY-COMMAND-ERROR	PIC S9(9)	BINARY VALUE	2324.
10	MQRC-NESTED-BAG-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2325.
10	MQRC-BAG-WRONG-TYPE	PIC S9(9)	BINARY VALUE	2326.
10	MQRC-ITEM-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2327.
10	MQRC-SYSTEM-BAG-NOT-DELETABLE	PIC S9(9)	BINARY VALUE	2328.
10	MQRC-SYSTEM-ITEM-NOT-DELETABLE	PIC S9(9)	BINARY VALUE	2329.
10	MQRC-CODED-CHAR-SET-ID-ERROR	PIC S9(9)	BINARY VALUE	2330.
10	MQRC-MSG-TOKEN-ERROR	PIC S9(9)	BINARY VALUE	2331.
10	MQRC-MISSING-WIH	PIC S9(9)	BINARY VALUE	2332.
10	MQRC-WIH-ERROR	PIC S9(9)	BINARY VALUE	2333.
10	MQRC-RFH-ERROR	PIC S9(9)	BINARY VALUE	2334.
10	MQRC-RFH-STRING-ERROR	PIC S9(9)	BINARY VALUE	2335.
10	MQRC-RFH-COMMAND-ERROR	PIC S9(9)	BINARY VALUE	2336.
10	MQRC-RFH-PARM-ERROR	PIC S9(9)	BINARY VALUE	2337.
10	MQRC-RFH-DUPLICATE-PARM	PIC S9(9)	BINARY VALUE	2338.
10	MQRC-RFH-PARM-MISSING	PIC S9(9)	BINARY VALUE	2339.
10	MQRC-CHAR-CONVERSION-ERROR	PIC S9(9)	BINARY VALUE	2340.
10	MQRC-UCS2-CONVERSION-ERROR	PIC S9(9)	BINARY VALUE	2341.
10	MQRC-DB2-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2342.
10	MQRC-OBJECT-NOT-UNIQUE	PIC S9(9)	BINARY VALUE	2343.
10	MQRC-CONN-TAG-NOT-RELEASED	PIC S9(9)	BINARY VALUE	2344.

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10	MQRC-CF-NOT-AVAILABLE	PIC S9(9)	BINARY VALUE	2345.
10	MQRC-CF-STRUC-IN-USE	PIC S9(9)	BINARY VALUE	2346.
10	MQRC-CF-STRUC-LIST-HDR-IN-USE	PIC S9(9)	BINARY VALUE	2347.
10	MQRC-CF-STRUC-AUTH-FAILED	PIC S9(9)	BINARY VALUE	2348.
10	MQRC-CF-STRUC-ERROR	PIC S9(9)	BINARY VALUE	2349.
10	MQRC-CONN-TAG-NOT-USABLE	PIC S9(9)	BINARY VALUE	2350.
10	MQRC-GLOBAL-UOW-CONFLICT	PIC S9(9)	BINARY VALUE	2351.
10	MQRC-LOCAL-UOW-CONFLICT	PIC S9(9)	BINARY VALUE	2352.
10	MQRC-HANDLE-IN-USE-FOR-UOW	PIC S9(9)	BINARY VALUE	2353.
10	MQRC-UOW-ENLISTMENT-ERROR	PIC S9(9)	BINARY VALUE	2354.
10	MQRC-UOW-MIX-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2355.
10	MQRC-WXP-ERROR	PIC S9(9)	BINARY VALUE	2356.
10	MQRC-CURRENT-RECORD-ERROR	PIC S9(9)	BINARY VALUE	2357.
10	MQRC-NEXT-OFFSET-ERROR	PIC S9(9)	BINARY VALUE	2358.
10	MQRC-NO-RECORD-AVAILABLE	PIC S9(9)	BINARY VALUE	2359.
10	MQRC-OBJECT-LEVEL-INCOMPATIBLE	PIC S9(9)	BINARY VALUE	2360.
10	MQRC-NEXT-RECORD-ERROR	PIC S9(9)	BINARY VALUE	2361.
10	MQRC-BACKOUT-THRESHOLD-REACHED	PIC S9(9)	BINARY VALUE	2362.
10	MQRC-MSG-NOT-MATCHED	PIC S9(9)	BINARY VALUE	2363.
10	MQRC-JMS-FORMAT-ERROR	PIC S9(9)	BINARY VALUE	2364.
10	MQRC-SEGMENTS-NOT-SUPPORTED	PIC S9(9)	BINARY VALUE	2365.
10	MQRC-WRONG-CF-LEVEL	PIC S9(9)	BINARY VALUE	2366.
10	MQRC-CONFIG-CREATE-OBJECT	PIC S9(9)	BINARY VALUE	2367.
10	MQRC-CONFIG-CHANGE-OBJECT	PIC S9(9)	BINARY VALUE	2368.
10	MQRC-CONFIG-DELETE-OBJECT	PIC S9(9)	BINARY VALUE	2369.
10	MQRC-CONFIG-REFRESH-OBJECT	PIC S9(9)	BINARY VALUE	2370.
10	MQRC-CHANNEL-SSL-ERROR	PIC S9(9)	BINARY VALUE	2371.
10	MQRC-API-EXIT-ERROR	PIC S9(9)	BINARY VALUE	2374.
10	MQRC-API-EXIT-INIT-ERROR	PIC S9(9)	BINARY VALUE	2375.
10	MQRC-API-EXIT-TERM-ERROR	PIC S9(9)	BINARY VALUE	2376.
10	MQRC-EXIT-REASON-ERROR	PIC S9(9)	BINARY VALUE	2377.
10	MQRC-RESERVED-VALUE-ERROR	PIC S9(9)	BINARY VALUE	2378.
10	MQRC-NO-DATA-AVAILABLE	PIC S9(9)	BINARY VALUE	2379.
10	MQRC-SCO-ERROR	PIC S9(9)	BINARY VALUE	2380.
10	MQRC-KEY-REPOSITORY-ERROR	PIC S9(9)	BINARY VALUE	2381.
10	MQRC-CRYPTO-HARDWARE-ERROR	PIC S9(9)	BINARY VALUE	2382.
10	MQRC-AUTH-INFO-REC-COUNT-ERROR	PIC S9(9)	BINARY VALUE	2383.
10	MQRC-AUTH-INFO-REC-ERROR	PIC S9(9)	BINARY VALUE	2384.
10	MQRC-AIR-ERROR	PIC S9(9)	BINARY VALUE	2385.
10	MQRC-AUTH-INFO-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2386.
10	MQRC-AUTH-INFO-CONN-NAME-ERROR	PIC S9(9)	BINARY VALUE	2387.
10	MQRC-LDAP-USER-NAME-ERROR	PIC S9(9)	BINARY VALUE	2388.
10	MQRC-LDAP-USER-NAME-LENGTH-ERR	PIC S9(9)	BINARY VALUE	2389.
10	MQRC-LDAP-PASSWORD-ERROR	PIC S9(9)	BINARY VALUE	2390.
10	MQRC-SSL-ALREADY-INITIALIZED	PIC S9(9)	BINARY VALUE	2391.
10	MQRC-SSL-CONFIG-ERROR	PIC S9(9)	BINARY VALUE	2392.
10	MQRC-SSL-INITIALIZATION-ERROR	PIC S9(9)	BINARY VALUE	2393.
10	MQRC-Q-INDEX-TYPE-ERROR	PIC S9(9)	BINARY VALUE	2394.
10	MQRC-SSL-NOT-ALLOWED	PIC S9(9)	BINARY VALUE	2396.
10	MQRC-JSSE-ERROR	PIC S9(9)	BINARY VALUE	2397.
10	MQRC-SSL-PEER-NAME-MISMATCH	PIC S9(9)	BINARY VALUE	2398.
10	MQRC-SSL-PEER-NAME-ERROR	PIC S9(9)	BINARY VALUE	2399.
10	MQRC-UNSUPPORTED-CIPHER-SUITE	PIC S9(9)	BINARY VALUE	2400.
10	MQRC-SSL-CERTIFICATE-REVOKED	PIC S9(9)	BINARY VALUE	2401.
10	MQRC-SSL-CERT-STORE-ERROR	PIC S9(9)	BINARY VALUE	2402.
10	MQRC-REOPEN-EXCL-INPUT-ERROR	PIC S9(9)	BINARY VALUE	6100.
10	MQRC-REOPEN-INQUIRE-ERROR	PIC S9(9)	BINARY VALUE	6101.
10	MQRC-REOPEN-OPENED-CONTEXT-ERR	PIC S9(9)	BINARY VALUE	6102.
10	MQRC-REOPEN-TEMPORARY-Q-ERROR	PIC S9(9)	BINARY VALUE	6103.
10	MQRC-ATTRIBUTE-LOCKED	PIC S9(9)	BINARY VALUE	6104.
10	MQRC-CURSOR-NOT-VALID	PIC S9(9)	BINARY VALUE	6105.
10	MQRC-ENCODING-ERROR	PIC S9(9)	BINARY VALUE	6106.
10	MQRC-STRUC-ID-ERROR	PIC S9(9)	BINARY VALUE	6107.
10	MQRC-NULL-POINTER	PIC S9(9)	BINARY VALUE	6108.
10	MQRC-NO-CONNECTION-REFERENCE	PIC S9(9)	BINARY VALUE	6109.
10	MQRC-NO-BUFFER	PIC S9(9)	BINARY VALUE	6110.
10	MQRC-BINARY-DATA-LENGTH-ERROR	PIC S9(9)	BINARY VALUE	6111.
10	MQRC-BUFFER-NOT-AUTOMATIC	PIC S9(9)	BINARY VALUE	6112.
10	MQRC-INSUFFICIENT-BUFFER	PIC S9(9)	BINARY VALUE	6113.
10	MQRC-INSUFFICIENT-DATA	PIC S9(9)	BINARY VALUE	6114.
10	MQRC-DATA-TRUNCATED	PIC S9(9)	BINARY VALUE	6115.
10	MQRC-ZERO-LENGTH	PIC S9(9)	BINARY VALUE	6116.
10	MQRC-NEGATIVE-LENGTH	PIC S9(9)	BINARY VALUE	6117.
10	MQRC-NEGATIVE-OFFSET	PIC S9(9)	BINARY VALUE	6118.
10	MQRC-INCONSISTENT-FORMAT	PIC S9(9)	BINARY VALUE	6119.
10	MQRC-INCONSISTENT-OBJECT-STATE	PIC S9(9)	BINARY VALUE	6120.

Figure 29 Sample CMQWORK Member (Page 19 of 22)

```

10 MQRC-CONTEXT-OBJECT-NOT-VALID PIC S9(9) BINARY VALUE 6121.
10 MQRC-CONTEXT-OPEN-ERROR PIC S9(9) BINARY VALUE 6122.
10 MQRC-STRUC-LENGTH-ERROR PIC S9(9) BINARY VALUE 6123.
10 MQRC-NOT-CONNECTED PIC S9(9) BINARY VALUE 6124.
10 MQRC-NOT-OPEN PIC S9(9) BINARY VALUE 6125.
10 MQRC-DISTRIBUTION-LIST-EMPTY PIC S9(9) BINARY VALUE 6126.
10 MQRC-INCONSISTENT-OPEN-OPTIONS PIC S9(9) BINARY VALUE 6127.
10 MQRC-WRONG-VERSION PIC S9(9) BINARY VALUE 6128.
10 MQRC-REFERENCE-ERROR PIC S9(9) BINARY VALUE 6129.

*****
** Values Related to Queue Attributes **
*****

** Queue Types
10 MQQT-LOCAL PIC S9(9) BINARY VALUE 1.
10 MQQT-MODEL PIC S9(9) BINARY VALUE 2.
10 MQQT-ALIAS PIC S9(9) BINARY VALUE 3.
10 MQQT-REMOTE PIC S9(9) BINARY VALUE 6.
10 MQQT-CLUSTER PIC S9(9) BINARY VALUE 7.

** Cluster Queue Types
10 MQCQT-LOCAL-Q PIC S9(9) BINARY VALUE 1.
10 MQCQT-ALIAS-Q PIC S9(9) BINARY VALUE 2.
10 MQCQT-REMOTE-Q PIC S9(9) BINARY VALUE 3.
10 MQCQT-Q-MGR-ALIAS PIC S9(9) BINARY VALUE 4.

** Extended Queue Types
10 MQQT-ALL PIC S9(9) BINARY VALUE 1001.

** Queue Definition Types
10 MQQDT-PREDEFINED PIC S9(9) BINARY VALUE 1.
10 MQQDT-PERMANENT-DYNAMIC PIC S9(9) BINARY VALUE 2.
10 MQQDT-TEMPORARY-DYNAMIC PIC S9(9) BINARY VALUE 3.
10 MQQDT-SHARED-DYNAMIC PIC S9(9) BINARY VALUE 4.

** Inhibit Get
10 MQQA-GET-INHIBITED PIC S9(9) BINARY VALUE 1.
10 MQQA-GET-ALLOWED PIC S9(9) BINARY VALUE 0.

** Inhibit Put
10 MQQA-PUT-INHIBITED PIC S9(9) BINARY VALUE 1.
10 MQQA-PUT-ALLOWED PIC S9(9) BINARY VALUE 0.

** Queue Shareability
10 MQQA-SHAREABLE PIC S9(9) BINARY VALUE 1.
10 MQQA-NOT-SHAREABLE PIC S9(9) BINARY VALUE 0.

** Back-Out Hardening
10 MQQA-BACKOUT-HARDENED PIC S9(9) BINARY VALUE 1.
10 MQQA-BACKOUT-NOT-HARDENED PIC S9(9) BINARY VALUE 0.

** Message Delivery Sequence
10 MQMDS-PRIORITY PIC S9(9) BINARY VALUE 0.
10 MQMDS-FIFO PIC S9(9) BINARY VALUE 1.

** Trigger Control
10 MQTC-OFF PIC S9(9) BINARY VALUE 0.
10 MQTC-ON PIC S9(9) BINARY VALUE 1.

** Trigger Types
10 MQTT-NONE PIC S9(9) BINARY VALUE 0.
10 MQTT-FIRST PIC S9(9) BINARY VALUE 1.
10 MQTT-EVERY PIC S9(9) BINARY VALUE 2.
10 MQTT-DEPTH PIC S9(9) BINARY VALUE 3.

** Queue Usage
10 MQUS-NORMAL PIC S9(9) BINARY VALUE 0.
10 MQUS-TRANSMISSION PIC S9(9) BINARY VALUE 1.

** Distribution Lists
10 MQDL-SUPPORTED PIC S9(9) BINARY VALUE 1.
10 MQDL-NOT-SUPPORTED PIC S9(9) BINARY VALUE 0.

** Index Type

```

Figure 29 Sample CMQWORK Member (Page 20 of 22)

```

10 MQIT-NONE      PIC S9(9) BINARY VALUE 0.
10 MQIT-MSG-ID   PIC S9(9) BINARY VALUE 1.
10 MQIT-CORREL-ID PIC S9(9) BINARY VALUE 2.
10 MQIT-MSG-TOKEN PIC S9(9) BINARY VALUE 4.
10 MQIT-GROUP-ID PIC S9(9) BINARY VALUE 5.

** Default Bind
10 MQBND-BIND-ON-OPEN PIC S9(9) BINARY VALUE 0.
10 MQBND-BIND-NOT-FIXED PIC S9(9) BINARY VALUE 1.

** Queue Sharing Group Disposition
10 MQQSGD-Q-MGR PIC S9(9) BINARY VALUE 0.
10 MQQSGD-COPY PIC S9(9) BINARY VALUE 1.
10 MQQSGD-SHARED PIC S9(9) BINARY VALUE 2.
10 MQQSGD-GROUP PIC S9(9) BINARY VALUE 3.

*****
** Values Related to Namelist Attributes **
*****

** Name Count
10 MQNC-MAX-NAMELIST-NAME-COUNT PIC S9(9) BINARY VALUE 256.

** Namelist Type
10 MQNT-NONE      PIC S9(9) BINARY VALUE 0.
10 MQNT-Q         PIC S9(9) BINARY VALUE 1.
10 MQNT-CLUSTER  PIC S9(9) BINARY VALUE 2.
10 MQNT-AUTH-INFO PIC S9(9) BINARY VALUE 4.
10 MQNT-ALL      PIC S9(9) BINARY VALUE 1001.

*****
** Values Related to Process-Definition Attributes **
*****

** Application Type
** See values for "Put Application Type" under MQMD

*****
** Values Related to Authentication-Information Attributes **
*****

** Authentication Information Type
** See values for "Authentication Information Type" under MQAIR

*****
** Values Related to Queue-Manager Attributes **
*****

** Channel Auto Definition
10 MQCHAD-DISABLED PIC S9(9) BINARY VALUE 0.
10 MQCHAD-ENABLED  PIC S9(9) BINARY VALUE 1.

** Command Level
10 MQCMDL-LEVEL-1  PIC S9(9) BINARY VALUE 100.
10 MQCMDL-LEVEL-101 PIC S9(9) BINARY VALUE 101.
10 MQCMDL-LEVEL-110 PIC S9(9) BINARY VALUE 110.
10 MQCMDL-LEVEL-114 PIC S9(9) BINARY VALUE 114.
10 MQCMDL-LEVEL-120 PIC S9(9) BINARY VALUE 120.
10 MQCMDL-LEVEL-200 PIC S9(9) BINARY VALUE 200.
10 MQCMDL-LEVEL-201 PIC S9(9) BINARY VALUE 201.
10 MQCMDL-LEVEL-210 PIC S9(9) BINARY VALUE 210.
10 MQCMDL-LEVEL-220 PIC S9(9) BINARY VALUE 220.
10 MQCMDL-LEVEL-221 PIC S9(9) BINARY VALUE 221.
10 MQCMDL-LEVEL-320 PIC S9(9) BINARY VALUE 320.
10 MQCMDL-LEVEL-420 PIC S9(9) BINARY VALUE 420.
10 MQCMDL-LEVEL-500 PIC S9(9) BINARY VALUE 500.
10 MQCMDL-LEVEL-510 PIC S9(9) BINARY VALUE 510.
10 MQCMDL-LEVEL-520 PIC S9(9) BINARY VALUE 520.
10 MQCMDL-LEVEL-530 PIC S9(9) BINARY VALUE 530.

** Distribution Lists
** See values for "Distribution Lists" under Queue Attributes

```

Figure 29 Sample CMQWORK Member (Page 21 of 22)

```

** Expiration Scan Interval
10 MQEXPI-OFF PIC S9(9) BINARY VALUE 0.

** Intra-Group Queuing
10 MQIGQ-DISABLED PIC S9(9) BINARY VALUE 0.
10 MQIGQ-ENABLED PIC S9(9) BINARY VALUE 1.

** Intra-Group Queuing Put Authority
10 MQIGQPA-DEFAULT PIC S9(9) BINARY VALUE 1.
10 MQIGQPA-CONTEXT PIC S9(9) BINARY VALUE 2.
10 MQIGQPA-ONLY-IGQ PIC S9(9) BINARY VALUE 3.
10 MQIGQPA-ALTERNATE-OR-IGQ PIC S9(9) BINARY VALUE 4.

** Platform
10 MQPL-MVS PIC S9(9) BINARY VALUE 1.
10 MQPL-OS390 PIC S9(9) BINARY VALUE 1.
10 MQPL-ZOS PIC S9(9) BINARY VALUE 1.
10 MQPL-OS2 PIC S9(9) BINARY VALUE 2.
10 MQPL-AIX PIC S9(9) BINARY VALUE 3.
10 MQPL-UNIX PIC S9(9) BINARY VALUE 3.
10 MQPL-OS400 PIC S9(9) BINARY VALUE 4.
10 MQPL-WINDOWS PIC S9(9) BINARY VALUE 5.
10 MQPL-WINDOWS-NT PIC S9(9) BINARY VALUE 11.
10 MQPL-VMS PIC S9(9) BINARY VALUE 12.
10 MQPL-NSK PIC S9(9) BINARY VALUE 13.
10 MQPL-NATIVE PIC S9(9) BINARY VALUE 1.

** Syncpoint Availability
10 MQSP-AVAILABLE PIC S9(9) BINARY VALUE 1.
10 MQSP-NOT-AVAILABLE PIC S9(9) BINARY VALUE 0.

*****
** End of CMQV **
*****

```

Figure 29 Sample CMQWORK Member (Page 22 of 22)

CONVDATT

A sample of the CONVDATT member is shown in the following figure.

```

/** YOUR JOB CARD GOES HERE
//ASMLINK PROC DISK=SYSDA,
//          LOADLIB='YOUR.RESULTS.LOAD.LIBRARY',          OLD
//          NEWNAM='NEW.DATE.TABLE.NAME',                NEW
//          SOUT='*',
//          SOURCLB='YOUR.RESULTS.SOURCE.LIBRARY'          OLD
/**
//*****
//*
//HLASM EXEC PGM=ASMA90,REGION=2M,TIME=(,40),              X
//          PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))', X
//          TERM,'XREF(FULL)')
//SYSLIB DD DSN=&SOURCLB,DISP=SHR
//          DD DSN=SYS1.MACLIB,DISP=SHR
//SYSLIN DD DSNNAME=&&OBJ,UNIT=&DISK,SPACE=(3040,(80,80),,ROUND),
//          DISP=(MOD,PASS),
//          DCB=(BLKSIZE=3040,LRECL=80,RECFM=FBS,BUFNO=1)
//SYSUT1 DD DSNNAME=&SYSUT1,UNIT=&DISK,SPACE=(1700,(400,50)),
//          SEP=(SYSLIN)
//SYSUT2 DD DSNNAME=&SYSUT2,UNIT=&DISK,SPACE=(1700,(400,50)),
//          SEP=(SYSLIN,SYUT1)
//SYSUT3 DD DSNNAME=&SYSUT3,UNIT=&DISK,SPACE=(1700,(400,50)),
//          SEP=(SYSLIN,SYUT1,SYUT2)
//SYSPRINT DD SYSOUT=&SOUT
//SYSPUNCH DD DUMMY
//SYSTEM DD SYSOUT=&SOUT

```

Figure 30 Sample CONVDATT Member (Page 1 of 3)

```

// *
//STEP02 EXEC PGM=IEWL,REGION=2M,PARM='XREF,LIST,NCAL',
//          COND=(0,NE)
// * LINK EDIT THE DATE TABLE.
//SYSPRINT DD SYSOUT=&SOUT
//SYSUT1 DD UNIT=&DISK,SPACE=(1024,(250,20))
//SYSLMOD DD DSN=&LOADLIB.(&NEWNAM),DISP=SHR
//SYSLIN DD DSN=&&OBJ,DISP=(OLD,DELETE)
// *
//          PEND
// *
//STEP1 EXEC ASMLINK
//SYSIN DD *
* HOLIDAY AND DATE TABLE
*====> BE SURE TO EXAMINE/UPDATE DATES FOR YOUR INSTALLATION,
*====> AND THE CHAR2 AND CHAR4 PARAMETERS IF YOU WANT TO CHANGE
*====> THE DEFAULT CENTURY PREFIXES.
WEEKDAY DAY=MON
WEEKDAY DAY=TUE
WEEKDAY DAY=WED
WEEKDAY DAY=THU
WEEKDAY DAY=FRI
WEEKDAY DAY=SAT, DAYLEN=HALF
WEEKDAY DAY=SUN, DAYLEN=OFF
HOLIDAY DATE=01022006, DAYLEN=WHOLE, CHAR2=20, CHAR4=20
*
HOLIDAY DATE=01162006, DAYLEN=WHOLE NEW YEARS, 2006
HOLIDAY DATE=02202006, DAYLEN=WHOLE MARTIN LUTHER KING DAY
HOLIDAY DATE=05292006, DAYLEN=WHOLE PRESIDENT'S DAY
HOLIDAY DATE=07042006, DAYLEN=WHOLE MEMORIAL DAY
HOLIDAY DATE=09042006, DAYLEN=WHOLE INDEPENDENCE DAY
HOLIDAY DATE=10092006, DAYLEN=WHOLE LABOR DAY
HOLIDAY DATE=11092006, DAYLEN=WHOLE COLUMBUS DAY
HOLIDAY DATE=11102006, DAYLEN=WHOLE VETERANS DAY
HOLIDAY DATE=11232006, DAYLEN=WHOLE THANKSGIVING DAY
HOLIDAY DATE=12242006, DAYLEN=HALF CHRISTMAS EVE
HOLIDAY DATE=12252006, DAYLEN=WHOLE CHRISTMAS
HOLIDAY DATE=12292006, DAYLEN=HALF NEW YEAR'S EVE
*
HOLIDAY DATE=01012007, DAYLEN=WHOLE NEW YEARS, 2007
HOLIDAY DATE=01152007, DAYLEN=WHOLE MARTIN LUTHER KING DAY
HOLIDAY DATE=02192007, DAYLEN=WHOLE PRESIDENT'S DAY
HOLIDAY DATE=05282007, DAYLEN=WHOLE MEMORIAL DAY
HOLIDAY DATE=07042007, DAYLEN=WHOLE INDEPENDENCE DAY
HOLIDAY DATE=09032007, DAYLEN=WHOLE LABOR DAY
HOLIDAY DATE=10082007, DAYLEN=WHOLE COLUMBUS DAY
HOLIDAY DATE=11122007, DAYLEN=WHOLE VETERANS DAY
HOLIDAY DATE=11222007, DAYLEN=WHOLE THANKSGIVING DAY
HOLIDAY DATE=12242007, DAYLEN=HALF CHRISTMAS EVE
HOLIDAY DATE=12252007, DAYLEN=WHOLE CHRISTMAS
HOLIDAY DATE=12312007, DAYLEN=HALF NEW YEAR'S EVE
*
HOLIDAY DATE=01012008, DAYLEN=WHOLE NEW YEARS, 2008
HOLIDAY DATE=01212008, DAYLEN=WHOLE MARTIN LUTHER KING DAY
HOLIDAY DATE=02182008, DAYLEN=WHOLE PRESIDENT'S DAY
HOLIDAY DATE=05262008, DAYLEN=WHOLE MEMORIAL DAY
HOLIDAY DATE=07042008, DAYLEN=WHOLE INDEPENDENCE DAY
HOLIDAY DATE=09012008, DAYLEN=WHOLE LABOR DAY
HOLIDAY DATE=10132008, DAYLEN=WHOLE COLUMBUS DAY
HOLIDAY DATE=11112008, DAYLEN=WHOLE VETERANS DAY
HOLIDAY DATE=11272008, DAYLEN=WHOLE THANKSGIVING DAY
HOLIDAY DATE=12242008, DAYLEN=HALF CHRISTMAS EVE
HOLIDAY DATE=12252008, DAYLEN=WHOLE CHRISTMAS
HOLIDAY DATE=12312008, DAYLEN=HALF NEW YEAR'S EVE
*
HOLIDAY DATE=01012009, DAYLEN=WHOLE NEW YEARS, 2009
HOLIDAY DATE=01192009, DAYLEN=WHOLE MARTIN LUTHER KING DAY
HOLIDAY DATE=02162009, DAYLEN=WHOLE PRESIDENT'S DAY
HOLIDAY DATE=05252009, DAYLEN=WHOLE MEMORIAL DAY
HOLIDAY DATE=07032009, DAYLEN=WHOLE INDEPENDENCE DAY
HOLIDAY DATE=09072009, DAYLEN=WHOLE LABOR DAY
HOLIDAY DATE=10122009, DAYLEN=WHOLE COLUMBUS DAY
HOLIDAY DATE=11112009, DAYLEN=WHOLE VETERANS DAY
HOLIDAY DATE=11262009, DAYLEN=WHOLE THANKSGIVING DAY
HOLIDAY DATE=12252009, DAYLEN=WHOLE CHRISTMAS
HOLIDAY DATE=12312009, DAYLEN=HALF NEW YEAR'S EVE
*

```

Figure 30 Sample CONVDATT Member (Page 2 of 3)

```

HOLIDAY DATE=01012010, DAYLEN=WHOLE      NEW YEARS, 2010
HOLIDAY DATE=01182010, DAYLEN=WHOLE      MARTIN LUTHER KING DAY
HOLIDAY DATE=02152010, DAYLEN=WHOLE      PRESIDENT'S DAY
HOLIDAY DATE=05312010, DAYLEN=WHOLE      MEMORIAL DAY
HOLIDAY DATE=07052010, DAYLEN=WHOLE      INDEPENDENCE DAY
HOLIDAY DATE=09062010, DAYLEN=WHOLE      LABOR DAY
HOLIDAY DATE=10112010, DAYLEN=WHOLE      COLUMBUS DAY
HOLIDAY DATE=11112010, DAYLEN=WHOLE      VETERANS DAY
HOLIDAY DATE=11252010, DAYLEN=WHOLE      THANKSGIVING DAY
HOLIDAY DATE=12242010, DAYLEN=WHOLE      CHRISTMAS
HOLIDAY DATE=12312010, DAYLEN=HALF       NEW YEAR'S EVE
*
HOLIDAY DATE=01032011, DAYLEN=WHOLE      NEW YEARS, 2011
HOLIDAY DATE=01172011, DAYLEN=WHOLE      MARTIN LUTHER KING DAY
HOLIDAY DATE=02212011, DAYLEN=WHOLE      PRESIDENT'S DAY
HOLIDAY DATE=05302011, DAYLEN=WHOLE      MEMORIAL DAY
HOLIDAY DATE=07042011, DAYLEN=WHOLE      INDEPENDENCE DAY
HOLIDAY DATE=09052011, DAYLEN=WHOLE      LABOR DAY
HOLIDAY DATE=10102011, DAYLEN=WHOLE      COLUMBUS DAY
HOLIDAY DATE=11112011, DAYLEN=WHOLE      VETERANS DAY
HOLIDAY DATE=11242011, DAYLEN=WHOLE      THANKSGIVING DAY
HOLIDAY DATE=12262011, DAYLEN=WHOLE      CHRISTMAS
HOLIDAY DATE=12302011, DAYLEN=HALF       NEW YEAR'S EVE
END

```

Figure 30 Sample CONVDATT Member (Page 3 of 3)

CSVCALL

A sample of the CSVCALL member is shown in the following figure.

```

MOVE 0 TO CONVLTH
MOVE 0 TO CSVRETCD
MOVE 0 TO CSVRSNCD
CALL CSVRSLT USING
FUNCCODE T'#N L'#N D'#N #N
CSVBUF CSVBUFSZ CSVBUFOF
USRSYMBL CONVLTH CSVRETCD CSVRSNCD

MOVE DYLCOMRG TO CHFIELD
IF BINFIELD NE 0
  HEXPRINT 'REGISTER 15 = ' BINFIELD
  'CSV RETURN CODE = ' CSVRETCD
  'CSV REASON CODE = ' CSVRSNCD
  HEXPRINT '#N = ' #N
  HEXPRINT 'CSVBUF = ' CSVBUF
  MOVE 77 TO DYLRETURN
  STOP
ENDIF

```

Figure 31 Sample CSVCALL Member

CSVWORK

A sample of the CSVWORK member is shown in the following figure.

```

$DEFAULT #L=100
$DEND
WORKAREA
FUNCCODE 8 CH
CSVBUSZ 4 BI
CSVBUSZ 4 BI
USRSYMBL 8 CH
CONVLTH 4 BI
CSVRETCD 4 BI
SVRSNCD 4 BI
CSVBUS #L CH

WORKAREA
CHFIELD 2 CH
REDEFINE CHFIELD
BINFIELD 2 BI

```

Figure 32 Sample CSVWORK Member

CUSTMJCL

A sample of the CUSTMJCL member is shown in the following figure.

```

//* YOUR JOB CARD GOES HERE
//ASMLINK PROC DISK=SYSDA,
//          SOUT='*',
//          SOURCLB='YOUR.RESULTS.SOURCE.LIBRARY',          OLD
//          LOADLIB='YOUR.RESULTS.OPERATIONAL.LIBRARY'      OLD
//
//*****
//
//HLASM EXEC PGM=ASMA90,REGION=0M,TIME=(,40), X
// PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))', X
// TERM,'XREF(FULL)')
//SYSLIB DD DSN=&SOURCLB,DISP=SHR
// DSN=SYS1.MACLIB,DISP=SHR
//SYSLIN DD DSN=&OBJ,UNIT=&DISK,SPACE=(3040,(80,80),,ROUND),
// DISP=(MOD,PASS),
// DCB=(BLKSIZE=3040,LRECL=80,RECFM=FBS,BUFNO=1)
//SYSUT1 DD DSN=&SYSUT1,UNIT=&DISK,SPACE=(1700,(400,50)),
// SEP=(SYSLIN)
//SYSUT2 DD DSN=&SYSUT2,UNIT=&DISK,SPACE=(1700,(400,50)),
// SEP=(SYSLIN,SYUT1)
//SYSUT3 DD DSN=&SYSUT3,UNIT=&DISK,SPACE=(1700,(400,50)),
// SEP=(SYSLIN,SYUT1,SYUT2)
//SYSPRINT DD SYSOUT=&SOUT
//SYSPUNCH DD DUMMY
//SYSTEM DD SYSOUT=&SOUT
//
//STEP02 EXEC PGM=IEWL,REGION=0M,PARM='XREF,LIST,NCAL',
// COND=(0,NE)
//
// * LINK EDIT THE CUSTOMIZING INFORMATION.
//SYSPRINT DD SYSOUT=&SOUT
//SYSUT1 DD UNIT=&DISK,SPACE=(1024,(250,20))
//SYSLMOD DD DSN=&LOADLIB.(DYLPCPS),DISP=SHR
//SYSLIN DD DSN=&OBJ,DISP=(OLD,DELETE)

```

Figure 33 Sample CUSTMJCL Member (Page 1 of 2)

```

/*
//          PEND
/*
//STEP1   EXEC ASMLINK
//SYSIN   DD *
          DYLINSTL ENVIRON=MVS,
          PRODUCT=II,
          END
/*

```

Figure 33 Sample CUSTMJCL Member (Page 2 of 2)

DB2INSTL

A sample of the DB2INSTL member is shown in the following figure.

```

//JOBNAME JOB ..... ,REGION=0M
//DYLPROC PROC SYSDEV='*',
//          DSKDEV=SYSDA,
//          DB2LOAD='YOUR.DB2.DSNLOAD',
//          DYLLoad='YOUR.RESULTS.LOAD',
//          NEWLOAD='INTERFACE.DYNAMIC.LOAD',
//          NEWOBJ='INTERFACE.DYNAMIC.OBJLIB',
//          SRCLIB='YOUR.RESULTS.SRCLIB',
//          DBRMLIB='YOUR.DBRM.LIB',
//          DB2BIND='(8,LE)',
//          DB2BIND='ONLY',
//          MEMBER='DYLCA00',
//          DYLPROG='DYLCA00'
//
//          * SYSTEM O/P SPOOLING
//          * SYSTEM DISK GENERIC
//          * IBM DB2 LOAD LIBRARY
//          * RESULTS LOAD LIBRARY
//          * INTERFACE DYNAMIC LOAD
//          * INTERFACE DYNAMIC OBJLIB
//          * RESULTS INSTALL SOURCE
//          * DB2 DBRM LIBRARY
//          * LOCAL DB2 BIND
//          * REMOTE DB2 BIND
//          * PROGRAM MEMBER
//          * RESULTS TEST PROGRAM
//          NOTE: IT MUST CONTAIN AT
//          LEAST ONE COPYDB2
//          COMMAND IN IT.
//
//*****
//
//          THIS IS A SAMPLE JCL PROCEDURE FOR INSTALLING THE COPYDB2
//          FACILITY. IT WILL DO THE PRECOMPILING, COMPILING,
//          LINK-EDITING, BINDING, AND TESTING OF THIS FACILITY.
//
//          REPLACE THE NECESSARY LIBRARY NAMES AND/OR MEMBER NAMES
//          IN THE JCL PROCEDURE BASED UPON YOUR COMPANY'S STANDARDS.
//
//*****
//
//          STEP1 --- PRECOMPILE &MEMBER.
//
//*****
//STEP1   EXEC PGM=DSNHPC, COND=&DB2BIND,
//          PARM='HOST(ASM),STDSQL(NO)'
//STEPLIB DD DSN=&DB2LOAD, DISP=SHR
//DBRMLIB DD DSN=&DBRMLIB. (&MEMBER), DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV
//SYSTEM DD SYSOUT=&SYSDEV
//SYSUDUMP DD SYSOUT=&SYSDEV
//SYSUT1 DD SPACE=(800,(500,500),,ROUND), UNIT=&DSKDEV
//SYSUT2 DD SPACE=(800,(500,500),,ROUND), UNIT=&DSKDEV
//SYSCIN DD DSN=&&TEMP, DISP=(NEW,PASS), UNIT=&DSKDEV,
//          SPACE=(800,(500,500))
//SYSIN DD DSN=&SRCLIB. (&MEMBER), DISP=SHR
//*****
//
//          STEP2 --- COMPILE &MEMBER.
//
//*****
//STEP2   EXEC PGM=ASMA90, COND=&DB2BIND,
//          PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))',
//          TERM,'FLAG(NOCONT)')
//

```

Figure 34 Sample DB2INSTL Member (Page 1 of 3)


```

//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSTEM DD SYSOUT=&SYSDEV,HOLD=YES
//SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
// DD DSN=SYS1.MODGEN,DISP=SHR
//SYST1 DD UNIT=(&DSKDEV,SEP=SYSLIB),SPACE=(CYL,(02,1))
//SYSPUNCH DD DUMMY
//SYSLIN DD DSN=&&TEMP2,DISP=(NEW,PASS),UNIT=&DSKDEV,
// SPACE=(TRK,(4,2)),DCB=BLKSIZE=800
//SYSIN DD DSN=&&TEMP,DISP=(OLD,DELETE)
//*****
//*
//* STEP3 --- LINK
//*
//*****
//STEP3 EXEC PGM=IEWL,REGION=0M,COND=&DB2BIND,
// PARM='LET,LIST,XREF'
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSLIB DD DSN=&NEWOBJ.,DISP=SHR
// DD DSN=&DYLLLOAD.,DISP=SHR
// DD DSN=&DB2LOAD.,DISP=SHR
//SYSLMOD DD DSN=&NEWLOAD.(DYLCA00),DISP=SHR
//SYSLIN DD DSN=&&TEMP2,DISP=(OLD,DELETE)
// DD DDNAME=SYSIN
//*****
//*
//* STEP4 --- BIND DYLCA00
//*
//*****
//STEP4 EXEC PGM=IKJEFT01,REGION=0M,COND=&DB2BIND,DYNAMNBR=20
//STEPLIB DD DSN=&DB2LOAD.,DISP=SHR
//SYSTSPRT DD SYSOUT=&SYSDEV,HOLD=YES
//DBRMLIB DD DSN=&DBRMLIB.,DISP=SHR
//*****
//*
//* STEP5 --- EXECUTE A TEST PROGRAM DYLPROG='DYLCA00'
//*
//*****
//STEP5 EXEC PGM=DYL280,COND=&DB2BIND,
// REGION=0M,TIME=(,30)
//STEPLIB DD DSN=&NEWLOAD.,DISP=SHR
// DD DSN=&DB2LOAD.,DISP=SHR
// DD DSN=&DYLLLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYS280R DD SYSOUT=&SYSDEV,HOLD=YES
//DYLDBUG DD SYSOUT=&SYSDEV,HOLD=YES
//SYSUDUMP DD SYSOUT=&SYSDEV,HOLD=YES
//SYS004 DD UNIT=&DSKDEV.,SPACE=(CYL,(4),,CONTIG)
//SANPIT DD SYSOUT=&SYSDEV,HOLD=YES
//DSNTRACE DD SYSOUT=&SYSDEV,HOLD=YES
//COPYDB2A DD DUMMY
//ECONNECT DD DUMMY
//SYSIN DD DSN=&SRCLIB.(&DYLPROG),DISP=SHR
// PEND
//*
//DYLTEST EXEC DYLPROG
//*
//* FOLLOWING BIND IS USED IF VISION:INTERFACE FOR DB2 4.0 OR
//* HIGHER IS BEING USED. BEFORE RUNNING DB2INSTL, YOU NEED TO
//* INSTALL VISION:INTERFACE FOR DB2 DYNAMIC RELEASE 4.0 OR HIGHER.
//* VISION:INTERFACE WILL BIND THE PLAN THAT COPYDB2 USES. COPYDB2
//* ONLY HAS TO BIND A PACKAGE. THE BINDING OF THE PLAN ONLY
//* NEEDS TO BE DONE ONCE SINCE THE COLLECTION ID NAME ALREADY
//* EXISTS AS PART OF THE PLAN'S PACKAGE LIST.
//*
//* NOTE: IF REMOTE DB2 PROCESSING IS GOING TO BE USED, THEN AFTER
//* RUNNING THE STANDARD DB2INSTL (STEP1 THRU STEP5), YOU WILL
//* NEED TO RERUN THE DB2INSTL JOB ON EACH REMOTE DB2 SERVER,
//* USING THE REMOTE DB2 SERVER'S OPERATING SYSTEM. THE
//* DB2LOAD PROCEDURE PARAMETER HAS TO REFLECT THE LIBRARY USED
//* FOR THE REMOTE DB2 SERVER. THE DB2BIND PROCEDURE PARAMETER
//* MUST BE SET TO 'ONLY' FOR REMOTE DB2 PROCESSING. ON THE
//* STEP4.SYSTSIN DD STATEMENT, SET SYSTEM PARAMETER TO THE
//* REMOTE DB2 SUBSYSTEM ID. THE JOB IS SET TO RUN ONLY STEP 4.
//*
//* TO TEST WHETHER THE BIND TO THE REMOTE DB2 SERVER WAS
//* SUCCESSFUL, RERUN THE DB2INSTL AGAIN EXECUTING ONLY STEP 5

```

Figure 34 Sample DB2INSTL Member (Page 2 of 3)

```

/*          BY USING 'RESTART=DYLTEST.STEP5' ON THE JOB STATEMENT.  HAVE
/*          ALL THE PROCEDURE PARAMETERS SET TO THE VALUES USED ON THE
/*          INITIAL LOCAL DB2INSTL.  FOR STEP 5, YOU WILL NEED TO ADD THE
/*          LOCATION ID OF THE REMOTE DB2 SERVER ON THE COPYDB2A
/*          OVERRIDE STATEMENT BELOW.  THE LOCATION ID STARTS IN
/*          POSITION 28.  DO NOT RUN THE OTHER STEPS.
/*
//STEP3.SYSIN DD *
          ENTRY DYLCAT01
          INCLUDE SYSLIB(DYLCAT01)
          NAME DYLCAT00(R)
/*
//STEP4.SYSTSIN DD *
DSN SYSTEM(DB2A)
BIND PACKAGE (DYLSQL) -
          DYNAMICRULES(RUN) -
          ACTION (REPLACE) -
          LIBRARY ('YOUR.DB2.DBRMLIB') -
          ISOLATION (CS) -
          MEMBER(DYLCAT00)
END
/*
//STEP5.COPYDB2A DD *
DB2A DYldb2 DSN8610
/*
//

```

Figure 34 Sample DB2INSTL Member (Page 3 of 3)

DB2INST2

A sample of the DB2INST2 member is shown in the following figure.

```

//JOBNAME JOB ..... ,REGION=0M
/*
/*          FOLLOWING JOB ALLOWS A CALL ATTACH IMPLICIT CONNECTION TO 00024314
/*          BE USED WITH COPYDB2.
/*
//DYLPROC PROC SYSDEV='*',
          DSKDEV=SYSDA,
          DB2LOAD='YOUR.DB2.DSNLOAD',
          DYLLoad='YOUR.RESULTS.LOAD',
          NEWLOAD='INTERFACE.DYNAMIC.LOAD',
          SRCLIB='YOUR.RESULTS.SRCLIB',
          DBRMLIB='YOUR.DBRM.LIB',
          DSNEXIT='DB2.DB2A.DSNEXIT',
          MEMBER='DYLCAT00',
          DYLPROG='DYLCATPG'
/*
/*          * SYSTEM O/P SPOOLING
/*          * SYSTEM DISK GENERIC
/*          * IBM DB2 LOAD LIBRARY
/*          * RESULTS LOAD LIBRARY
/*          * INTERFACE DYNAMIC LOAD
/*          * RESULTS INSTALL SOURCE
/*          * DB2 DBRM LIBRARY
/*          * DB2 DSNEXIT LIBRARY
/*          * PROGRAM MEMBER
/*          * RESULTS TEST PROGRAM
/*          NOTE: IT MUST CONTAIN AT
/*          LEAST ONE COPYDB2
/*          COMMAND IN IT.
/*
/*          *****
/*          *
/*          *          STEP1 --- ASSEMBLE IMPLICIT CONNECTION MEMBER          *
/*          *          *****
/*
//STEP1 EXEC PGM=ASMA90,REGION=0M,
          PARM=(OBJECT,NODECK,'LINECOUNT(48)', 'USING(MAP,WARN(3))',
          TERM,'XREF(FULL)')
//SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
//SYSUT1 DD UNIT=SYSDA,SPACE=(TRK,(1,1))
//SYSPRINT DD SYSOUT=*
//SYSLIN DD DSN=&&TEMP2,DISP=(MOD,PASS),
          UNIT=SYSDA,SPACE=(TRK,(1,1)),
          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SYSPUNCH DD DUMMY
//SYSTEM DD SYSOUT=*
//SYSIN DD DSN=&SRCLIB.(DYIMPCON),DISP=SHR

```

Figure 35 Sample DB2INST2 Member (Page 1 of 2)

```

//*****
//*
//*          STEP2 --- RELINK DYLCAT00 MODULE
//*
//*****
//STEP2 EXEC PGM=IEWL,REGION=0M,COND=(0,NE),
//          PARM='LET,LIST,XREF'
//SYSLIB DD DSN=&NEWLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSLMOD DD DSN=&NEWLOAD.(&MEMBER),DISP=SHR
//SYSLIN DD DSN=&&TEMP2,DISP=(OLD,DELETE)
//          DD DDNAME=SYSIN
//*****
//*
//*          STEP3 --- BIND DYLCAT00
//*
//*****
//STEP3 EXEC PGM=IKJEFT01,REGION=0M,COND=(0,NE),DYNAMNBR=20
//STEPLIB DD DSN=&DB2LOAD.,DISP=SHR
//SYSTSPRT DD SYSOUT=&SYSDEV,HOLD=YES
//DBRMLIB DD DSN=&DBRMLIB.,DISP=SHR
//*****
//*
//*          STEP4 --- EXECUTE A TEST PROGRAM DYLPORG='DYLCATPG'
//*
//*****
//STEP4 EXEC PGM=DYL280,REGION=0M,TIME=(2),COND=(0,NE)
//STEPLIB DD DSN=&NEWLOAD.,DISP=SHR
//          DD DSN=&DSNEXIT.,DISP=SHR
//          DD DSN=&DB2LOAD.,DISP=SHR
//          DD DSN=&DYLLLOAD.,DISP=SHR
//SYSPRINT DD SYSOUT=&SYSDEV,HOLD=YES
//SYS280R DD SYSOUT=&SYSDEV,HOLD=YES
//DYLDBUG DD SYSOUT=&SYSDEV,HOLD=YES
//SYS004 DD UNIT=&DSKDEV.,SPACE=(CYL,(4),,CONTIG)
//SANPIT DD SYSOUT=&SYSDEV,HOLD=YES
//SYSUDUMP DD SYSOUT=&SYSDEV,HOLD=YES
//ABNLIGNR DD DUMMY
//DSNTRACE DD SYSOUT=&SYSDEV,HOLD=YES
//COPYDB2A DD DUMMY
//SYSIN DD DSN=&SRCLIB.(&DYLPORG),DISP=SHR
//          PEND
//*
//DYLLINK2 EXEC DYLPORG
//STEP2.SYSIN DD *
ENTRY DYLCAT01
INCLUDE SYSLIB(DYLCAT00)
NAME DYLCAT00(R)
//STEP3.SYSTSIN DD *
DSN SYSTEM(DB2A)
BIND PLAN(DYLCAT00) PKLIST(*.DYLSQI.*) -
ACTION (REPLACE) RETAIN -
DYNAMICRULES (RUN) -
ISOLATION (CS) -
CURRENTSERVER (LOCATION ID)
END
//*
//STEP4.COPYDB2A DD *
DSN8610
//*
//

```

Figure 35 Sample DB2INST2 Member (Page 2 of 2)

DYCHANEL

A sample of the DYCHANEL member is shown in the following figure.

```

$IF FIXED
$DEFAULT #N=01,#1=0,#2=0,#3=0,#4=0,#5=0,#6=0,#7=0,#8=0,#9=0,#A=0, X
$ #B=0,#C=0,#S=1
* #N - APPLICATION NUMBER - MUST BE EXACTLY 2 DIGITS
* #1 - LINE NUMBER FOR CHANNEL 1.
* #2 - LINE NUMBER FOR CHANNEL 2.
* #3 - LINE NUMBER FOR CHANNEL 3.
* #4 - LINE NUMBER FOR CHANNEL 4.
* #5 - LINE NUMBER FOR CHANNEL 5.
* #6 - LINE NUMBER FOR CHANNEL 6.
* #7 - LINE NUMBER FOR CHANNEL 7.
* #8 - LINE NUMBER FOR CHANNEL 8.
* #9 - LINE NUMBER FOR CHANNEL 9.
* #A - LINE NUMBER FOR CHANNEL 10.
* #B - LINE NUMBER FOR CHANNEL 11.
* #C - LINE NUMBER FOR CHANNEL 12.
* #S - THE STARTING LOCATION IN THE WORKAREA.
*
L 24 #S DY#NCHANNEL
L 2 #S P V#1
L 2 * P V#2
L 2 * P V#3
L 2 * P V#4
L 2 * P V#5
L 2 * P V#6
L 2 * P V#7
L 2 * P V#8
L 2 * P V#9
L 2 * P V#A
L 2 * P V#B
L 2 * P V#C
*
$IF FREE
$DEFAULT #N=01 #1=0 #2=0 #3=0 #4=0 #5=0 #6=0 #7=0 #8=0 #9=0 #A=0
#B=0 #C=0 #W=R #S=1
$DEND
* #N - APPLICATION NUMBER - MUST BE EXACTLY 2 DIGITS
* #1 - LINE NUMBER FOR CHANNEL 1.
* #2 - LINE NUMBER FOR CHANNEL 2.
* #3 - LINE NUMBER FOR CHANNEL 3.
* #4 - LINE NUMBER FOR CHANNEL 4.
* #5 - LINE NUMBER FOR CHANNEL 5.
* #6 - LINE NUMBER FOR CHANNEL 6.
* #7 - LINE NUMBER FOR CHANNEL 7.
* #8 - LINE NUMBER FOR CHANNEL 8.
* #9 - LINE NUMBER FOR CHANNEL 9.
* #A - LINE NUMBER FOR CHANNEL 10.
* #B - LINE NUMBER FOR CHANNEL 11.
* #C - LINE NUMBER FOR CHANNEL 12.
*
WORKAREA
DY#NCHANNEL 24 1
FILLER 2 1 PD VALUE #1
FILLER 2 PD VALUE #2
FILLER 2 PD VALUE #3
FILLER 2 PD VALUE #4
FILLER 2 PD VALUE #5
FILLER 2 PD VALUE #6
FILLER 2 PD VALUE #7
FILLER 2 PD VALUE #8
FILLER 2 PD VALUE #9
FILLER 2 PD VALUE #A
FILLER 2 PD VALUE #B
FILLER 2 PD VALUE #C
*
*

```

Figure 36 Sample DYCHANEL Member

DYIMPCON

A sample of the DYIMPCON member is shown in the following figure.

```

DYIMPCON CSECT
DYIMPCON AMODE 31
DYIMPCON RMODE 24
YREGS
SAVE (14,12)          SAVE REGISTERS
USING DYIMPCON,R15    ADDRESSABILITY
B AROUND
STB1 DC YL1(STL1),C'XXX DYIMPCON XXX (C) 2005 COMPUTER ASSOCIATX
ES INTERNATIONAL, INC.'
STL1 EQU *-STB1-1
DC AL3(MLNG)          MODULE LENGTH
DC CL8 '&SYSDATE'     ASSEMBLY DATE
DC CL5 '&SYSTIME'     ASSEMBLY TIME
AROUND DS 0H
DROP R15
LA R12,0(,R15)        ESTABLISH
USING DYIMPCON,R12    ADDRESSABILITY
SPACE 1
* SET UP SAVE AREAS
LA R2,SAVEAREA
ST R2,8(,R13)
ST R13,4(,R2)
LR R13,R2
* BEGIN HERE
RETURN DS 0H
L R13,4(,R13)
LM R14,R12,12(R13)    RESTORE REGISTERS
BSM 0,R14             EXIT
LTORG
PATCH DC 128S(*)
SAVEAREA DS 18F
MLNG EQU *-DYIMPCON  LENGTH OF DYIMPCON PROGRAM
END DYIMPCON

```

Figure 37 Sample DYIMPCON Member

DYLABEL

A sample of the DYLABEL member is shown in the following figure.

```

$IF FREE
$DEFAULT #1=4 #2=6 #3=33 #4=132
#5=NULL #6=1 #7=NULL
$DEND
* #1 - NUMBER OF LABELS ACROSS THE PAGE - A NUMERIC VALUE
* OR DATANAME, LIMIT IS BASED ON THE LABEL SIZE & REPORT WIDTH
* #2 - NUMBER OF PRINT LINES PER LABEL - A NUMERIC VALUE
* OR DATANAME, LIMIT IS 9
* #3 - SIZE OF LABEL - A NUMERIC VALUE, LIMIT IS LE REPORT WIDTH
* #4 - WIDTH OF PRINTER - A NUMERIC VALUE, LIMIT IS 204
* #5 - PAGE EJECT OR SPACE 0-9 LINES AFTER PRINTING LAST LINE
* - 'EJECT' OR NUMERIC VALUES OF 0 THROUGH 9
* - THIS IS THE NUMBER OF LINES TO "SPACE AFTER" WHEN PRINTING
* - THE LAST DATA LINE OF THE LABEL. ENTER 1 MORE THAN THE
* - NUMBER OF BLANK LINES NEEDED TO GET TO THE FIRST LINE OF
* - THE NEXT LABEL.
* #6 - EVERY NTH RECORD IS SELECTED - A NUMERIC VALUE OR DATANAME
* #7 - LIMIT THE LABELS - A NUMERIC VALUE OR DATANAME
* - MAXIMUM IS 999,999,999
* #8 - LINE 1 FIELD - A DATANAME OR A LITERAL
* #9 - LINE 2 FIELD - A DATANAME OR A LITERAL

```

Figure 38 Sample DYLABEL Member (Page 1 of 4)

```

*   #A - LINE 3 FIELD - A DATANAME OR A LITERAL
*   #B - LINE 4 FIELD - A DATANAME OR A LITERAL
*   #C - LINE 5 FIELD - A DATANAME OR A LITERAL
*   #D - LINE 6 FIELD - A DATANAME OR A LITERAL
*   #E - LINE 7 FIELD - A DATANAME OR A LITERAL
*   #F - LINE 8 FIELD - A DATANAME OR A LITERAL
*   #G - LINE 9 FIELD - A DATANAME OR A LITERAL
WORKAREA
    DYL#ZSELNO      2 PD  VALUE 0
    DYL#ZSZLBL      2 PD  VALUE 0
    DYL#ZLIMIT      5 PD  VALUE 0
    DYL#ZLBLCT      2 PD  VALUE 0
    DYL#ZLINES      2 PD  VALUE 9
    DYL#ZERR        30    VALUE 'CHECK YOUR VARIABLE INPUT(S) !'
WORKAREA
$IF #8
    DYL#ZLINE1      #4
$IFE
$IF #9
    DYL#ZLINE2      #4
$IFE
$IF #A
    DYL#ZLINE3      #4
$IFE
$IF #B
    DYL#ZLINE4      #4
$IFE
$IF #C
    DYL#ZLINE5      #4
$IFE
$IF #D
    DYL#ZLINE6      #4
$IFE
$IF #E
    DYL#ZLINE7      #4
$IFE
$IF #F
    DYL#ZLINE8      #4
$IFE
$IF #G
    DYL#ZLINE9      #4
$IFE
$IF #8
    REDEFINE DYL#ZLINE1 DYL#ZL1LBL #3
$IFE
$IF #9
    REDEFINE DYL#ZLINE2 DYL#ZL2LBL #3
$IFE
$IF #A
    REDEFINE DYL#ZLINE3 DYL#ZL3LBL #3
$IFE
$IF #B
    REDEFINE DYL#ZLINE4 DYL#ZL4LBL #3
$IFE
$IF #C
    REDEFINE DYL#ZLINE5 DYL#ZL5LBL #3
$IFE
$IF #D
    REDEFINE DYL#ZLINE6 DYL#ZL6LBL #3
$IFE
$IF #E
    REDEFINE DYL#ZLINE7 DYL#ZL7LBL #3
$IFE
$IF #F
    REDEFINE DYL#ZLINE8 DYL#ZL8LBL #3
$IFE
$IF #G
    REDEFINE DYL#ZLINE9 DYL#ZL9LBL #3
$IFE
*
ON ONE MOVE #3 TO DYL#ZSZLBL
IF DYL#ZLINES LT #2
$IF #6
    OR DYL#ZSELNO EQ #6
$IFE
$IF #7

```

Figure 38 Sample DYLABEL Member (Page 2 of 4)

```

OR      DYL#ZLIMIT      EQ      #7
$IFE
OR      DYL#ZLIMIT      EQ      #1
OR      DYL#ZSZLBL      GT      #4
OR      DYL#ZSZLBL      EQ      0
PRINT   DYL#ZERR        STOP    ENDIF
ENDONE
*
$IF #6
DYL#ZSELNO = DYL#ZSELNO + 1
IF DYL#ZSELNO LT #6 REJECT ENDIF
DYL#ZSELNO = 0
$IFE
*****
* SAVE DATA OF RECORD(S) IN WORKAREA *
*****
$IF #8
MOVE #8 TO DYL#ZL1LBL (INW)
$IFE
$IF #9
MOVE #9 TO DYL#ZL2LBL (INW)
$IFE
$IF #A
MOVE #A TO DYL#ZL3LBL (INW)
$IFE
$IF #B
MOVE #B TO DYL#ZL4LBL (INW)
$IFE
$IF #C
MOVE #C TO DYL#ZL5LBL (INW)
$IFE
$IF #D
MOVE #D TO DYL#ZL6LBL (INW)
$IFE
$IF #E
MOVE #E TO DYL#ZL7LBL (INW)
$IFE
$IF #F
MOVE #F TO DYL#ZL8LBL (INW)
$IFE
$IF #G
MOVE #G TO DYL#ZL9LBL (INW)
$IFE
*
$IF #7
DYL#ZLIMIT = DYL#ZLIMIT + 1
IF DYL#ZLIMIT LT #7 GOTO DYL#ZCONT ENDIF
STOP
$IFE
*****
* PRINT THE LABELS WHEN THE RIGHT AMOUNT IS ACCUMULATED *
*****
DYL#ZCONT:
INW = INW + #3
DYL#ZLBLCT = DYL#ZLBLCT + 1
IF DYL#ZLBLCT LT #1 ACCEPT ENDIF
PERFORM DYL#ZPROD TO DYL#ZPRODX
DYL#ZLBLCT = 0
INW = 0
INX = #2 * #4
MOVE SPACES TO DYL#ZLINE1 LENGTH INX
ACCEPT
*
*
REPORT #4 WIDE
DYL#ZPROD:
$IF #8
LIST DYL#ZLINE1 AT 1
$IFE
$IF #9
LIST DYL#ZLINE2 AT 1
$IFE
$IF #A
LIST DYL#ZLINE3 AT 1
$IFE
$IF #B

```

Figure 38 Sample DYLABEL Member (Page 3 of 4)

```

$IFE
$IF #C
LIST    DYL#ZLINE4  AT    1
$IFE
$IF #D
LIST    DYL#ZLINE5  AT    1
$IFE
$IF #E
LIST    DYL#ZLINE6  AT    1
$IFE
$IF #F
LIST    DYL#ZLINE7  AT    1
$IFE
$IF #G
LIST    DYL#ZLINE8  AT    1
$IFE
$IF #5
        WITH    #5    AFTER
$IFE
DYL#ZPRODX:
ON FINAL
$IF #8
LIST    DYL#ZLINE1  AT    1
$IFE
$IF #9
LIST    DYL#ZLINE2  AT    1
$IFE
$IF #A
LIST    DYL#ZLINE3  AT    1
$IFE
$IF #B
LIST    DYL#ZLINE4  AT    1
$IFE
$IF #C
LIST    DYL#ZLINE5  AT    1
$IFE
$IF #D
LIST    DYL#ZLINE6  AT    1
$IFE
$IF #E
LIST    DYL#ZLINE7  AT    1
$IFE
$IF #F
LIST    DYL#ZLINE8  AT    1
$IFE
$IF #G
LIST    DYL#ZLINE9  AT    1
$IFE
$IF #5
        WITH    #5    AFTER
$IFE
$IF FIXED
* DYLABEL NOT VALID EXCEPT WITH VISION:RESULTS
```

Figure 38 Sample DYLABEL Member (Page 4 of 4)

DYLAPPC1

A sample of the DYLAPPC1 member is shown in the following figure.


```

*****
*
*   PGM: DYLAPPC1
*
*****

OPTION STRUCTURED2 XREF QLF 60 LONG VERIFY

FILE SYSIN DUMMY

STATEOFF NEWPAGE STATEON
COPY DYLATB

*****
*
*   VARIABLES
*
*****

WORKAREA

    LOW_VALUES          8 CH
    REDEF LOW_VALUES
    LOW_VALUES_1       4 BI VALUE 0
    LOW_VALUES_2       4 BI VALUE 0

STATEOFF NEWPAGE STATEON
*****
*
*   CODE STARTS HERE
*
*****

    PERFORM ALLOCATE TO ALLOCATE_X

    PERFORM SENDDATA1 TO SENDDATA1X

    PERFORM REC_WAIT TO REC_WAIT_X

    IF W_STATUS_RECEIVED EQ ATB_CONFIRM_RECEIVED OR
       W_STATUS_RECEIVED EQ ATB_CONFIRM_SEND_RECEIVED OR
       W_STATUS_RECEIVED EQ ATB_CONFIRM_DEALLOC_RECEIVED

        PERFORM CONFIRMED TO CONFIRMEDX

    ENDIF

    LIST 'RECEIVE_BUFFER' AT 1 W_RECEIVE_BUFFER AT 30

    PERFORM SENDDATA2 TO SENDDATA2X

    PERFORM DEALLOC TO DEALLOC_X

    STOP
STATEOFF NEWPAGE STATEON
*****
*
*   ALLOCATE
*
*****

ALLOCATE:

    W_CONVERSATION_TYPE = ATB_MAPPED_CONVERSATION
    W_SYM_DEST_NAME     = ' '
    W_PARTNER_LU_NAME   = 'ACBSV01 '
    W_MODE_NAME         = 'APPCMOD1'
    W_TP_NAME_LENGTH    = 8
    W_TP_NAME           = 'DYLAPPC2'
    W_RETURN_CONTROL    = ATB_WHEN_SESSION_ALLOCATED
    W_SYNC_LEVEL        = ATB_CONFIRM
    W_SECURITY_TYPE     = ATB_SECURITY_NONE
    W_USER_ID           = 'IBMUSER'
    W_PASSWORD          = 'JERRYS'
    W_PROFILE           = ' '

```

Figure 39 Sample DYLAPPC1 Member (Page 1 of 4)

```

W_USER_TOKEN           = LOW_VALUES
* W_CONVERSATION_ID    = RETURNED BY ALLOCATE
W_NOTIFY_TYPE         = LOW_VALUES
W_TP_ID               = LOW_VALUES
* W_RETURN_CODE        = RETURNED BY ALLOCATE

CALL ATBALLC USING W_CONVERSATION_TYPE
                  W_SYM_DEST_NAME
                  W_PARTNER_LU_NAME
                  W_MODE_NAME
                  W_TP_NAME_LENGTH
                  W_TP_NAME
                  W_RETURN_CONTROL
                  W_SYNC_LEVEL
                  W_SECURITY_TYPE
                  W_USER_ID
                  W_PASSWORD
                  W_PROFILE
                  W_USER_TOKEN
                  W_CONVERSATION_ID
                  W_NOTIFY_TYPE
                  W_TP_ID
                  W_RETURN_CODE

IF W_RETURN_CODE NE ATB_OK STOP ENDIF

ALLOCATE X:
STATEOFF NEWPAGE STATEON
*****
* SEND_DATA_1
*
*****

SENDDATA1:

* W_CONVERSATION_ID    SET BY ALLOCATE
  W_SEND_TYPE          = ATB_BUFFER_DATA
  W_SEND_LENGTH        = 80
  W_SEND_ACCESS_TOKEN  = 0
  W_SEND_BUFFER        = 'APPC1 - FIRST BUFFER'
* W_REQUEST TO SEND_VALUE RETURNED BY SEND
  W_NOTIFY_TYPE        = LOW_VALUES
* W_RETURN_CODE        RETURNED BY SEND

CALL ATBSEND USING W_CONVERSATION_ID
                  W_SEND_TYPE
                  W_SEND_LENGTH
                  W_SEND_ACCESS_TOKEN
                  W_SEND_BUFFER
                  W_REQUEST TO SEND_VALUE
                  W_NOTIFY_TYPE
                  W_RETURN_CODE

SENDDATA1X:
STATEOFF NEWPAGE STATEON
*****
* RECEIVE_AND_WAIT
*
*****

REC_WAIT:

* W_CONVERSATION_ID    SET BY ALLOCATE
  W_FILL               = ATB_FILL_LL
  W_RECEIVE_LENGTH     = 80
  W_RECEIVE_ACCESS_TOKEN = 0
* W_RECEIVE_BUFFER     RETURNED BY RCVW
* W_STATUS RECEIVED    RETURNED BY RCVW
* W_DATA RECEIVED VALUE RETURNED BY RCVW
* W_REQUEST TO SEND_VALUE RETURNED BY RCVW
  W_NOTIFY_TYPE        = LOW_VALUES
* W_RETURN_CODE        RETURNED BY RCVW

CALL ATBRCVW USING W_CONVERSATION_ID

```

Figure 39 Sample DYLAPPC1 Member (Page 2 of 4)

```

W_FILL
W_RECEIVE_LENGTH
W_RECEIVE_ACCESS_TOKEN
W_RECEIVE_BUFFER
W_STATUS_RECEIVED
W_DATA_RECEIVED_VALUE
W_REQUEST_TO_SEND_VALUE
W_NOTIFY_TYPE
W_RETURN_CODE

REC WAIT X:
STATEOFF NEWPAGE STATEON
*****
*
*   CONFIRMED
*
*****

CONFIRMED:

*   W_CONVERSATION_ID      SET BY ALLOCATE
*   W_NOTIFY_TYPE          = LOW VALUES
*   W_RETURN_CODE          RETURNED BY CFMD

      CALL ATBCFMD USING W_CONVERSATION_ID
                        W_NOTIFY_TYPE
                        W_RETURN_CODE

CONFIRMEDX:
STATEOFF NEWPAGE STATEON
*****
*
*   SEND_DATA_2
*
*****

SENDDATA2:

*   W_CONVERSATION_ID      SET BY ALLOCATE
*   W_SEND_TYPE            = ATB_BUFFER_DATA
*   W_SEND_LENGTH          = 80
*   W_SEND_ACCESS_TOKEN    = 0
*   W_SEND_BUFFER          = 'APPCL, SECOND BUFFER'
*   W_REQUEST_TO_SEND_VALUE RETURNED BY SEND
*   W_NOTIFY_TYPE          = LOW VALUES
*   W_RETURN_CODE          RETURNED BY SEND

      CALL ATBSEND USING W_CONVERSATION_ID
                        W_SEND_TYPE
                        W_SEND_LENGTH
                        W_SEND_ACCESS_TOKEN
                        W_SEND_BUFFER
                        W_REQUEST_TO_SEND_VALUE
                        W_NOTIFY_TYPE
                        W_RETURN_CODE

SENDDATA2X:
STATEOFF NEWPAGE STATEON
*****
*
*   DEALLOCATE
*
*****

DEALLOC:

*   W_CONVERSATION ID      SET BY ALLOCATE
*   W_DEALLOCATE_TYPE      = ATB_DEALLOCATE_SYNC_LEVEL

```

Figure 39 Sample DYLAPPC1 Member (Page 3 of 4)

```

W_NOTIFY_TYPE          = LOW_VALUES
* W_RETURN_CODE        RETURNED BY CFMD

CALL ATBDEAL USING W_CONVERSATION_ID
                  W_DEALLOCATE_TYPE
                  W_NOTIFY_TYPE
                  W_RETURN_CODE

DEALLOC_X:

```

Figure 39 Sample DYLAPPC1 Member (Page 4 of 4)

DYLAPPC2

A sample of the DYLAPPC2 member is shown in the following figure.

```

*****
* PGM: DYLAPPC2
*
*****

OPTION STRUCTURED2 XREF QLF 60 LONG VERIFY

FILE SYSIN DUMMY

STATEOFF NEWPAGE STATEON
COPY DYLATB

*****
* VARIABLES
*
*****

WORKAREA

LOW_VALUES          8 CH
  REDEF LOW_VALUES
LOW_VALUES_1        4 BI VALUE LOWVALUES
LOW_VALUES_2        4 BI VALUE LOWVALUES

STATEOFF NEWPAGE STATEON
*****
* CODE STARTS HERE
*
*****

PERFORM GETTRANS          TO GETTRANS_X

DOWHILE W_RETURN_CODE EQ ATB_OK

  PERFORM GETCONV          TO GETCONVX

  DOWHILE W_STATUS_RECEIVED NE ATB_SEND_RECEIVED AND
    W_RETURN_CODE EQ ATB_OK

    PERFORM REC_WAIT      TO REC_WAIT_X

  ENDDO

  IF W_STATUS_RECEIVED EQ ATB_CONFIRM_RECEIVED OR
    W_STATUS_RECEIVED EQ ATB_CONFIRM_SEND_RECEIVED OR
    W_STATUS_RECEIVED EQ ATB_CONFIRM_DEALLOC_RECEIVED

    PERFORM CONFIRMED TO CONFIRMEDX

  ENDF

```

Figure 40 Sample DYLAPPC2 Member (Page 1 of 4)

```

LIST 'RECEIVE_BUFFER' AT 1 W_RECEIVE_BUFFER AT 30
PERFORM SENDDATA TO SENDDATA

DOWHILE W_STATUS_RECEIVED NE ATB_CONFIRM_DEALLOC_RECEIVED AND
        W_RETURN_CODE EQ ATB_OK
    PERFORM REC_WAIT TO REC_WAIT_X
ENDDO

LIST 'RECEIVE_BUFFER' AT 1 W_RECEIVE_BUFFER AT 30
PERFORM CONFIRMED TO CONFIRMEDX
PERFORM GETTRANS TO GETTRANS_X

ENDDO

PERFORM RETTRANS TO RETTRANSX

STOP
STATEOFF NEWPAGE STATEON
*****
*
* GET_TRANS
*
*****

GETTRANS:
* W_RETURN_CODE RETURNED BY GET_TRANS
CALL ATBGTRN USING W_RETURN_CODE

GETTRANS_X:
STATEOFF NEWPAGE STATEON
*****
*
* GET_CONVERSATION
*
*****

GETCONV:
* W_CONVERSATION_ID RETURNED BY GET
* W_CONVERSATION_TYPE RETURNED BY GET
* W_PARTNER_LU_NAME RETURNED BY GET
* W_MODE_NAME RETURNED BY GET
* W_SYNC_LEVEL RETURNED BY GET
* W_CONVERSATION_CORRELATOR RETURNED BY GET
* W_RETURN_CODE RETURNED BY GET

CALL ATBGTC USING W_CONVERSATION_ID
                W_CONVERSATION_TYPE
                W_PARTNER_LU_NAME
                W_MODE_NAME
                W_SYNC_LEVEL
                W_CONVERSATION_CORRELATOR
                W_RETURN_CODE

GETCONVX:
STATEOFF NEWPAGE STATEON
*****
*
* RECEIVE_AND_WAIT
*
*****

REC_WAIT:
* W_CONVERSATION_ID SET BY GET
  W_FILL = ATB_FILL_LL
  W_RECEIVE_LENGTH = 80
  W_RECEIVE_ACCESS_TOKEN = 0

```

Figure 40 Sample DYLAPPC2 Member (Page 2 of 4)

```

* W_RECEIVE_BUFFER          RETURNED BY RCVW
* W_STATUS_RECEIVED        RETURNED BY RCVW
* W_DATA_RECEIVED_VALUE    RETURNED BY RCVW
* W_REQUEST_TO_SEND_VALUE  RETURNED BY RCVW
* W_NOTIFY_TYPE            = LOW_VALUES
* W_RETURN_CODE            RETURNED BY RCVW

CALL ATBRCVW USING W_CONVERSATION_ID
                  W_FILL
                  W_RECEIVE_LENGTH
                  W_RECEIVE_ACCESS_TOKEN
                  W_RECEIVE_BUFFER
                  W_STATUS_RECEIVED
                  W_DATA_RECEIVED_VALUE
                  W_REQUEST_TO_SEND_VALUE
                  W_NOTIFY_TYPE
                  W_RETURN_CODE

REC WAIT X:
STATEOFF NEWPAGE STATEON
*****
*
* CONFIRMED
*
*****

CONFIRMED:

* W_CONVERSATION_ID        SET BY GET
* W_NOTIFY_TYPE            = LOW_VALUES
* W_RETURN_CODE            RETURNED BY CFMD

CALL ATBCFMD USING W_CONVERSATION_ID
                  W_NOTIFY_TYPE
                  W_RETURN_CODE

CONFIRMEDX:
STATEOFF NEWPAGE STATEON
*****
*
* SEND_DATA
*
*****

SENDDATA:

* W_CONVERSATION_ID        SET BY ALLOCATE
* W_SEND_TYPE              = ATB_BUFFER_DATA
* W_SEND_LENGTH            = 80
* W_SEND_ACCESS_TOKEN      = 0
* W_SEND_BUFFER            = 'APPC2 - ONLY BUFFER'
* W_REQUEST_TO_SEND_VALUE  RETURNED BY SEND
* W_NOTIFY_TYPE            = LOW_VALUES
* W_RETURN_CODE            RETURNED BY SEND

CALL ATBSEND USING W_CONVERSATION_ID
                  W_SEND_TYPE
                  W_SEND_LENGTH
                  W_SEND_ACCESS_TOKEN
                  W_SEND_BUFFER
                  W_REQUEST_TO_SEND_VALUE
                  W_NOTIFY_TYPE
                  W_RETURN_CODE

SENDDATAx:
STATEOFF NEWPAGE STATEON
*****
*
* RETURN_TRANSACTION
*
*****

```

Figure 40 Sample DYLAPPC2 Member (Page 3 of 4)

```

*****
RETRTRANS:
*   W_RETURN_CODE                RETURNED BY SEND
    CALL ATBRTRN USING W_RETURN_CODE

```

```
RETRTRANSX:
```

Figure 40 Sample DYLAPPC2 Member (Page 4 of 4)

DYLATB

A sample of the DYLATB member is shown in the following figure.

```

*****
*
* DYLATB - INTERFACE DECLARATIONS FOR LU 6.2 PROTOCOL BOUNDARY      *
*           INTERFACES - VISION:RESULTS.                            *
*
*****

WORKAREA

    ATB_F0      4 BI VALUE 0
    ATB_F1      4 BI VALUE 1
    ATB_F2      4 BI VALUE 2
    ATB_F3      4 BI VALUE 3
    ATB_F4      4 BI VALUE 4
    ATB_F100    4 BI VALUE 100
    ATB_F101    4 BI VALUE 101
    ATB_F102    4 BI VALUE 102

***  CONVERSION TYPE VALUES

    REDEF ATB_F0   ATB_BASIC_CONVERSATION      4 BI
    REDEF ATB_F1   ATB_MAPPED_CONVERSATION     4 BI

***  DATA RECEIVED VALUES

    REDEF ATB_F0   ATB_NO_DATA_RECEIVED        4 BI
    REDEF ATB_F1   ATB_DATA_RECEIVED           4 BI
    REDEF ATB_F2   ATB_COMPLETE_RECEIVED       4 BI
    REDEF ATB_F3   ATB_INCOMPLETE_RECEIVED     4 BI

***  DEALLOCATE TYPE VALUES

    REDEF ATB_F0   ATB_DEALLOCATE_SYNC_LEVEL   4 BI
    REDEF ATB_F1   ATB_DEALLOCATE_FLUSH        4 BI
    REDEF ATB_F2   ATB_DEALLOCATE_CONFIRM      4 BI
    REDEF ATB_F3   ATB_DEALLOCATE_ABEND        4 BI

***  ERROR DIRECTION VALUES

    REDEF ATB_F0   ATB_RECIEVE_ERROR           4 BI
    REDEF ATB_F1   ATB_SEND_ERROR              4 BI

***  FILL VALUES

    REDEF ATB_F0   ATB_FILL_LL                 4 BI
    REDEF ATB_F1   ATB_FILL_BUFFER             4 BI

***  LOCK VALUES

    REDEF ATB_F100 ATB_LOCKS_SHORT              4 BI
    REDEF ATB_F101 ATB_LOCKS_LONG              4 BI

***  NOTIFY TYPE VALUES

```

Figure 41 Sample DYLATB Member (Page 1 of 3)

```

REDEF ATB_F0    ATB_NOTIFY_TYPE_NONE          4 BI
REDEF ATB_F1    ATB_NOTIFY_TYPE_ECB          4 BI

***   PREPARE TO RECEIVE TYPE VALUES

REDEF ATB_F0    ATB_PREP_TO_RECEIVE_SYNC_LEVEL 4 BI
REDEF ATB_F1    ATB_PREP_TO_RECEIVE_FLUSH     4 BI
REDEF ATB_F2    ATB_PREP_TO_RECEIVE_CONFIRM   4 BI

***   REQUEST TO SEND RECEIVED VALUES

REDEF ATB_F0    ATB_REQ_TO_SEND_NOT_RECEIVED  4 BI
REDEF ATB_F1    ATB_REQ_TO_SEND_RECEIVED     4 BI

***   RETURN CONTROL VALUES

REDEF ATB_F0    ATB_WHEN_SESSION_ALLOCATED   4 BI
REDEF ATB_F1    ATB_IMMEDIATE                 4 BI
REDEF ATB_F100  ATB_WHEN_CONWINNER_ALLOCATED  4 BI

***   SECURITY TYPE VALUES

REDEF ATB_F100  ATB_SECURITY_NONE            4 BI
REDEF ATB_F101  ATB_SECURITY_SAME            4 BI
REDEF ATB_F102  ATB_SECURITY_PROGRAM          4 BI

***   SEND TYPE VALUES

REDEF ATB_F0    ATB_BUFFER_DATA               4 BI
REDEF ATB_F1    ATB_SEND_AND_FLUSH            4 BI
REDEF ATB_F2    ATB_SEND_AND_CONFIRM          4 BI
REDEF ATB_F3    ATB_SEND_AND_PREP_TO_RECEIVE  4 BI
REDEF ATB_F4    ATB_SEND_AND_DEALLOCATE      4 BI

***   STATUS RECEIVED VALUES

REDEF ATB_F0    ATB_NO_STATUS_RECEIVED        4 BI
REDEF ATB_F1    ATB_SEND_RECEIVED             4 BI
REDEF ATB_F2    ATB_CONFIRM_RECEIVED          4 BI
REDEF ATB_F3    ATB_CONFIRM_SEND_RECEIVED     4 BI
REDEF ATB_F4    ATB_CONFIRM_DEALLOC_RECEIVED  4 BI

***   SYNC LEVEL VALUES

REDEF ATB_F0    ATB_NONE                       4 BI
REDEF ATB_F1    ATB_CONFIRM                    4 BI
STATEOFF NEWPAGE STATEON
WORKAREA

***   RETURN CODE VALUES

ATB_OK                      4 BI VALUE 0
ATB_ALLOCATE_FAILURE_NO_RETRY 4 BI VALUE 1
ATB_ALLOCATE_FAILURE_RETRY   4 BI VALUE 2
ATB_CONVERSATION_TYPE_MISMATCH 4 BI VALUE 3
ATB_PIP_NOT_SPECIFIED_CORRECTLY 4 BI VALUE 5
ATB_SECURITY_NOT_VALID       4 BI VALUE 6
ATB_SYNC_LVL_NOT_SUPPORTED_PGM 4 BI VALUE 8
ATB_TPN_NOT_RECOGNIZED       4 BI VALUE 9
ATB_TP_NOT_AVAILABLE_NO_ENTRY 4 BI VALUE 10
ATB_TP_NOT_AVAILABLE_RETRY   4 BI VALUE 11
ATB_DEALLOCATED_ABEND        4 BI VALUE 17
ATB_DEALLOCATED_NORMAL       4 BI VALUE 18
ATB_PARAMETER_ERROR          4 BI VALUE 19
ATB_PRODUCT_SPECIFIC_ERROR   4 BI VALUE 20
ATB_PROGRAM_ERROR_NO_TRUNC    4 BI VALUE 21
ATB_PROGRAM_ERROR_NO_PURGING  4 BI VALUE 22
ATB_PROGRAM_ERROR_TRUNC      4 BI VALUE 23
ATB_PROGRAM_PARAMETER_CHECK   4 BI VALUE 24
ATB_PROGRAM_STATE_CHECK       4 BI VALUE 25
ATB_RESOURCE_FAILURE_NO_RETRY  4 BI VALUE 26
ATB_RESOURCE_FAILURE_RETRY    4 BI VALUE 27
ATB_UNSUCCESSFUL              4 BI VALUE 28
ATB_DEALLOCATED_ABEND_SVC     4 BI VALUE 30
ATB_DEALLOCATED_ABEND_TIMER   4 BI VALUE 31

```

Figure 41 Sample DYLATB Member (Page 2 of 3)


```

ATB_SVC_ERROR_NO_TRUNC      4 BI VALUE 32
ATB_SVC_ERROR_PURGING      4 BI VALUE 33
ATB_SVC_ERROR_TRUNC        4 BI VALUE 34

```

```

*****
*
*   FIELDS FOR CALL PARAMETERS
*
*****

```

WORKAREA

```

W_CONVERSATION_TYPE      4 BI
W_SYM_DEST_NAME          8 CH
W_PARTNER_LU_NAME        17 CH
W_MODE_NAME              8 CH
W_TP_NAME_LENGTH         4 BI
W_TP_NAME                 64 CH
W_RETURN_CONTROL         4 BI
W_SYNC_LEVEL             4 BI
W_SECURITY_TYPE          4 BI
W_USER_ID                 10 CH
W_PASSWORD                10 CH
W_PROFILE                 10 CH
W_USER_TOKEN              1 CH
W_CONVERSATION_ID        8 CH
W_CONVERSATION_CORRELATOR 8 CH
W_NOTIFY_TYPE            8 CH
W_TP_ID                   8 CH
W_RETURN_CODE             4 BI
W_RC                      4 BI
W_DEALLOCATE_TYPE        4 BI
W_FILL                   4 BI
W_RECEIVE_LENGTH         4 BI
W_RECEIVE_ACCESS_TOKEN   4 BI
W_RECEIVE_BUFFER         80 CH
W_STATUS_RECEIVED        4 BI
W_DATA_RECEIVED_VALUE     4 BI
W_REQUEST_TO_SEND_VALUE  4 BI
W_SEND_TYPE              4 BI
W_SEND_DATA_LENGTH       4 BI
W_SEND_LENGTH            4 BI
W_SEND_ACCESS_TOKEN      4 BI
W_SEND_BUFFER            80 CH
W_SEND_DATA              78 CH

```

Figure 41 Sample DYLATB Member (Page 3 of 3)

DYLATPG

A sample of the DYLATPG member is shown in the following figure.

```

*;
*;
*; PROGRAM:      DYLATPG
*;
*; DESCRIPTION: GENERATE COLUMN FIELDS AUTOMATICALLY
*;
OPTION TEST LISTINS
FILE XFILE DUMMY

WORKAREA
  XXPNO          6 CH
COPYDB2 EMP
  WK1            8 NU

MOVE 0 TO WK1

```

Figure 42 Sample DYLATPG Member (Page 1 of 2)

```

AAA:
  WK1 = WK1 + 1
  IF WK1 LT 12
    GOTO AAA
  ENDIF

  STOP

FIN

```

Figure 42 Sample DYLCATPG Member (Page 2 of 2)

DYLCAT00

A sample of the DYLCAT00 member is shown in the following figure.

```

TITLE 'DYLCAT00  GENERATE DATA STRUCTURE FROM DB2 CATALOG'
DYLCAT00 CSECT
DYLCAT00 AMODE 31
DYLCAT00 RMODE 24
        YREGS
        USING DYLCAT00,R15
        B      AROUND
        DC     C'XXX DYLCAT00 XXX'      EYECATCHER
        DC     AL3 (MLNG)                MODULE LENGTH          00197**5
        DC     CL8 '&SYSDATE'            ASSEMBLY DATE
        DC     CL5 '&SYSTIME'            ASSEMBLY TIME
        DC     C' COPYRIGHT (C) 2006 CA. ALL RIGHTS RESERVED. '  **4
AROUND  DS     0H
        STM    R14,R12,12 (R13)         SAVE REGISTERS
        DROP   R15
        LA     R12,0(,R15)              ESTABLISH
        USING  DYLCAT00,R12              ADDRESSABILITY
        LA     R2,SAVEAREA              SAVEAREA
        ST     R13,4(,R2)                CHAIN TO CALLED PGM'S SAVEAREA
        ST     R2,8(,R13)                CHAIN TO CALLING PGM'S SAVEAREA
        LR     R13,R2                    ESTABLISH SAVE AREA
        LM     R3,R6,0 (R1)              OBTAIN PARAMETER ADDRESSES
        USING  SQLDSECT,R3               ESTABLISH SQL DYNAMIC AREA
        USING  SQLDA,R4                  ESTABLISH SQL DESCRIPTOR AREA
        USING  SQLINPUT,R5               ESTABLISH SQL AND INPUT AREA
        USING  SQLCAREA,R6               ESTABLISH SQL COMMUNICATION AREA
        LA     R6,0(,R6)                  CLEAR END OF PARM INDICATOR
*
*
*      EXEC  SQL DECLARE SC CURSOR FOR SELSTMT
*
*
*      EXEC  SQL PREPARE SELSTMT INTO :SQLDA FROM :STMTBUF
*
*
        B      RETURN                    EXIT PROGRAM
RETURN  DS     0H
        L      R13,4(,R13)                RESTORE CALLING PGM'S SAVE ADDR
        L      R14,12(,R13)               EXCEPT FOR REG15, RESTORE
        LM     R0,R12,20 (R13)            CALLING PGM'S REGISTER CONTENTS
        BSM    0,R14                      RETURN TO CALLING PROGRAM
        LTORG
        PRINT  GEN,DATA
        DC     128S(*)                     PATCH AREA
        PRINT  GEN,NODATA
SAVEAREA DS     18F                       PROGRAM'S SAVEAREA
*      SQL DESCRIPTOR AREA FOLLOWS
        EXEC  SQL INCLUDE SQLDA
SQLINPUT DSECT                               SQL AND INPUT DATA
STMTBUF  DS     H,CL112
STMTLNG  DC     Y(STMTLNTH)
STMT1    DC     C'SELECT * FROM '

```

Figure 43 Sample DYLCAT00 Member (Page 1 of 2)

```
TABNAME DC CL79' '
DC CL19' '
STMTLNTH EQU *-STMT1
* SQL COMMUNICATION AREA FOLLOWS
SQLCAREA DSECT
EXEC SQL INCLUDE SQLCA
DYLCAT00 CSECT
MLNG EQU *-DYLCAT00 LENGTH OF DYLCAT00 PROGRAM
END DYLCAT00
```

Figure 43 Sample DYLCAT00 Member (Page 2 of 2)

DYLNSTL

A sample of the DYLNSTL member is shown in the following figure.

```
MACRO
*****
.* CHANGES
.* RESULTS 6.0 / SIXTY 12.0
.* 01/03 CHANGED SUBRADD DEFAULT TO 'Y' FOR VSE 07JM60
.* 01/04 CHANGED EXTEND, RETCODE DEFAULTS TO 'Y' 07JM60
.* 01/04 ADDED PRTCTRS KEYWORD 08JM60
.* 02/04 ADDED CBXSIGN KEYWORD 11JM60
.* 02/04 ADDED NDVRENV KEYWORD 10JM60
.* 02/04 ADDED EXCLPAT KEYWORD 07JM60
.* 02/04 ADDED RPTXPAG KEYWORD 07JM60
.* 02/04 ADDED RPTASA KEYWORD 07JM60
.* 02/04 ADDED SORTVAL KEYWORD 07JM60
.* 02/05 SORTVAL KEYWORD REMOVED 07RH60
.* 02/04 ADDED XREF$ KEYWORD 07JM60
.* 02/04 ADDED RPTDDNM KEYWORD 07JM60
.* 02/04 ADDED VSAMMSG KEYWORD 07JM60
.* 02/04 ADDED DLMFRST KEYWORD 07JM60
.* 02/04 ADDED SUPCOBW KEYWORD 07JM60
.* 02/04 ADDED DEVICE TYPE VALIDATION TO PANDEV PARAMETER 07JM60
.* 03/04 FIX FOR VISION:SIXTY CURRENCY EDIT 13266480JM60
.* 05/04 ADDED NDVRCOM KEYWORD 10JM60
.* 06/04 ADDED KWDLT KEYWORD 07JM60
.* 08/04 ADDED EDSUPR KEYWORD 13617973JM60
.* 01/05 ADDED VDUPABND KEYWORD 07RH60
.* 02/05 ADDED LPPUNLMT KEYWORD 07RH60
.* 02/05 ADDED EDP1ZERO KEYWORD 07RH60
.* 08/05 ADDED RANDMPCT KEYWORD 08JB60
.* 11/10 ADDED COBAPOS KEYWORD - COBOL APOSTROPHES 07RH60
.* 01/06 ADDED EDALIGN KEYWORD - EDIT CODE ALIGNMENT 07JB60
*****
DYLNSTL &ASALINE=, =
&BATCHIQ=, JM80=
&CATPLAN=, JM80=
&CATSYS=, JM64=
&CBXSIGN=, 11JM60=
&CDLOAD=, JM70=
&CENTNEW=, JB70=
&CENTRY1=, JB70=
&CENTRY2=, JB70=
&COBAPOS=, 07RH60=
&COBEDIT=, =
&COBENV=, JM70=
&COB2NR=, JM70=
&COMPERR=, =
&COMPWRK=, =
&CONDBUF=, JM70=
&CPYSBLB=, =
&CURRENCY=, JB70=
&DATATR=, JM70=
&DB2DEC9=, =
&DB2ERR=, 22JB80=
&DB2NULL=, 22JB80=
```

Figure 44 Sample DYLNSTL Member (Page 1 of 56)

```

&DB2PLAN=, JM64=
&DB2SNGL=, 22JB80=
&DB2SYS=, JM64=
&DECIML9=, 02JM80=
&DELIM=, 02JM80=
&DLMFRST=, 07JM60=
&DUPCBNM=, =
&DYLVARP=, =
&DYL4YR=, JB70=
&D2PLNID=, =
&D2SYSID=, =
&EDALIGN=, 07RH60=
&EDP1ZERO=, 07RH60=
&EDSUPR=, 13617973=
&ENVIRON=, =
&EURODAT=, =
&EURONUM=, =
&EXCEL=, DM70=
&EXCLPAT=, 07JM60=
&EXPRERR=, DM70=
&EXTEND=, AG70=
&FREEMEM=, JM70=
&FREEZDD=, JM70=
&FUJITSU=, JM64=
&GETMAX=, 4JM80=
&KWDLT=, DM70=
&LE=, 4JM80=
&LIBRBUF=, 4JM80=
&LIBDLBL=, 4JM80=
&LIBSYS=, 4JM80=
&LPPUNLMT=, 07RH60=
&LSTSTMX=, =
&LTRFROM=, =
&LTRZERO=, =
&MACHCOR=, =
&MACHORG=, =
&MAXDNLN=, =
&MAXDYLF=, =
&MNAMEMU=, =
&MRWRK6=, JM64=
&NAMEHDR=, =
&NDVRENV=, 10JM60=
&NDVRCOM=, 10JM60=
&NODLETE=, JM70=
&NOPOWRT=, JM70=
&NOSRTAB=, JM70=
&NOTOTAL=, JM70=
&NOVSIO=, JM70=
&NOVSOIO=, 15DV80=
&NUMCHAR=, 15DV80=
&NUMPD=, 15DV80=
&OPTLIST=, 15DV80=
&OPTPRDG=, 15DV80=
&OPTPRER=, 10DV80=
&OUTFILE=, 10DV80=
&PANVBUF=, 10DV80=
&PANDEV=, 10DV80=
&PANSYS=, 10DV80=
&PDSREPL=, =
&PGLINER=, =
&PGLINES=, =
&PRODCDE=, =
&PRODUCT=, =
&PROGMOD=XREFREF, =
&PRTCTRS=, 08JM60X
&PRTERR6=, JM64=
&PRTZERO=, JM70=
&QLF=, JM70=
&RANDMPCT=, 08JB60=
&RDYONLY=, JM70=
&RESRWRD=, =
&RETCODE=, =
&REFNO=, JM64=
&RPTASA=, 07JM60=
&RPTDDNM=, 07JM60=
&RPTXPAG=, 07JM60=

```

Figure 44 Sample DYLINSTL Member (Page 2 of 56)

```

&R15RC=, =
&SITENO=, =
&SECT=CSECT, =
&SORTDEV=, =
&SORTDYN=, =
&SORTMEM=, =
&SORTNAM=, =
&SQLIFIF=, =
&SSMASK=, =
&STATPLN=, 22JB80=
&STATSYS=, 22JB80=
&STRUCGO=, =
&SUBRADD=, =
&SUPCOBW=, 07JM60=
&SUPRESQ=, =
&SUP182W=, =
&SUP452E=, 6DV80=
&SYSBLOK=, 6DV80=
&TABLEHI=, 6DV80=
&TAPENO#=, 6DV80=
&TIMESEP=, 6DV80=
&TOMSG=, 6DV80=
&VSAMCAT=, 6DV80=
&VSAMMSG=, 07JM60=
&VDUPABND=, 07RH60=
&VSEATTR=, 6DV80=
&WRKPFDEV=, 6DV80=
&WRKFNAM=, =
&WRKFSYS=, JM64=
&XREF$=, 07JM60=
&ZDIVAB=, 3029
*****
.*
.* THIS SECTION DEFINES LOCAL SET SYMBOLS USED IN THE MACRO. *
.* NOTE: NOT ALL BITS IN BINARY SET SYMBOL SUBLISTS ARE USED. *
.*
*****
LCLA &CBUF &CONDBUF OPTION VALUE JM70
LCLA &CMPWRK &COMPWRK OPTION VALUE
LCLA &CONDOR &SUP452E OPTION VALUE
LCLA &CT LOOP COUNTER FOR COMPARISON (IN TBL)
LCLA &CTKN MNOTE CHARACTER VARIABLE
LCLA &CTKWD COUNT OF &KWDLT NAMES
LCLA &CTP1 PRODUCT CODE GROUP DIGIT COUNTER
LCLA &CT1 PRODUCT CODE GROUP COUNTER
LCLA &DMACHTA &MACHCOR VALUE CONVERTED TO ARITH.
LCLA &FREE &FREEMEM OPTION VALUE
LCLA &FRGTMX &FREEMEM = &GETMX-1000 07JB60
LCLA &GETMX &GETMAX OPTION VALUE
LCLA &KWDL1 LEN-1 OF KWDLT(1) 07JM60
LCLA &KWDL2 LEN-1 OF KWDLT(2) 07JM60
LCLA &KWDL3 LEN-1 OF KWDLT(3) 07JM60
LCLA &KWDL4 LEN-1 OF KWDLT(4) 07JM60
LCLA &KWDL5 LEN-1 OF KWDLT(5) 07JM60
LCLA &KWDL6 LEN-1 OF KWDLT(6) 07JM60
LCLA &KWDL7 LEN-1 OF KWDLT(7) 07JM60
LCLA &KWDL8 LEN-1 OF KWDLT(8) 07JM60
LCLA &KWDL9 LEN-1 OF KWDLT(9) 07JM60
LCLA &KWDL10 LEN-1 OF KWDLT(10) 07JM60
LCLA &KWDL11 LEN-1 OF KWDLT(11) 07JB60
LCLA &KWDL12 LEN-1 OF KWDLT(12) 07JB60
LCLA &KWDL13 LEN-1 OF KWDLT(13) 07JB60
LCLA &KWDL14 LEN-1 OF KWDLT(14) 07JB60
LCLA &KWDL15 LEN-1 OF KWDLT(15) 07JB60
LCLA &KWDL16 LEN-1 OF KWDLT(16) 07JB60
LCLA &KWDL17 LEN-1 OF KWDLT(17) 07JB60
LCLA &KWDL18 LEN-1 OF KWDLT(18) 07JB60
LCLA &KWDL19 LEN-1 OF KWDLT(19) 07JB60
LCLA &KWDL20 LEN-1 OF KWDLT(20) 07JB60
LCLA &LBUF &LIBRBUF OPTION VALUE JM70
LCLA &PBUF &PANVBUF OPTION VALUE JM70
LCLA &PCTMP #DIGITS IN FINAL PRODCDE GROUP
LCLA &SDEV9 9 + L'SORTDEV
LCLA &SEQMAX SORT CORE=MAX VALUE
LCLA &SMAX SORT MAXIMUM VALUE
LCLA &SMIN SORT MINIMUM VALUE

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LCLA &SRMAX          SORT RESET MAX VALUE
LCLA &TOTPCD        # DIGITS IN PRODUCT CODE          JM70
LCLA &WKDEV1        VSE WORK FILE DEVICE ALTERNATE (1)

.*
LCLC &BANNER        SYSPRINT/SYSLST COMPANY IDENTIFIER
LCLC &BATIQ         &BATCHIQ OPTION VALUE          JM70
LCLC &CENTNW        &CENTNEW INSTALLATION VALUE      JB70
LCLC &CENT1         &CENTRY1 INSTALLATION VALUE      JB70
LCLC &CENT2         &CENTRY2 INSTALLATION VALUE      JB70
LCLC &COBED         &COBEDIT RESET VALUE, NULL OR BAD
LCLC &CNAM          COMPILER NAME                JM70
LCLC &CPFX          PRODUCT PREFIX                JM70
LCLC &CURVAL        CURRENCY VALUE                JB70
LCLC &DB2CPID       &D2PLNID OPTION VALUE
LCLC &DB2CSID       &D2SYSID OPTION VALUE
LCLC &DB2PID        &DB2PLAN OPTION VALUE
LCLC &DB2SID        &DB2SYS OPTION VALUE
LCLC &DEC9          &DECIML9 OPTION VALUE
LCLC &DLMVAR        &DELIM STRING                      02JM80
LCLC &DMACHTC       &MACHCOR - CHAR, ZERO SUPPRESSED
LCLC &DOSMACH       &MACHCOR OPTION VALUE
LCLC &DOSWRK        &WRKFNAM OPTION VALUE
LCLC &D2DEC9        &DB2DEC9 OPTION VALUE
LCLC &FRZDDN        &FREEZDD OPTION VALUE                      JM70
LCLC &KWD1          &KWDLT(1)                          07JM60
LCLC &KWD2          &KWDLT(2)                          07JM60
LCLC &KWD3          &KWDLT(3)                          07JM60
LCLC &KWD4          &KWDLT(4)                          07JM60
LCLC &KWD5          &KWDLT(5)                          07JM60
LCLC &KWD6          &KWDLT(6)                          07JM60
LCLC &KWD7          &KWDLT(7)                          07JM60
LCLC &KWD8          &KWDLT(8)                          07JM60
LCLC &KWD9          &KWDLT(9)                          07JM60
LCLC &KWD10         &KWDLT(10)                         07JB60
LCLC &KWD11         &KWDLT(11)                         07JB60
LCLC &KWD12         &KWDLT(12)                         07JB60
LCLC &KWD13         &KWDLT(13)                         07JB60
LCLC &KWD14         &KWDLT(14)                         07JB60
LCLC &KWD15         &KWDLT(15)                         07JB60
LCLC &KWD16         &KWDLT(16)                         07JB60
LCLC &KWD17         &KWDLT(17)                         07JB60
LCLC &KWD18         &KWDLT(18)                         07JB60
LCLC &KWD19         &KWDLT(19)                         07JB60
LCLC &KWD20         &KWDLT(20)                         07JB60
LCLC &LIBNAM        LIBRARIAN DLBL NAME                    10DV80
LCLC &LIBSNU        LIBRARIAN SYS #                      10DV80
LCLC &LINES         &PGLINES OPTION VALUE
LCLC &LINER         &PGLINER OPTION VALUE
LCLC &MAXDN         &MAXDNLN OPTION VALUE
LCLC &MAXDIOU       &MAXDYLF OPTION VALUE
LCLC &MRWK6         &MRWRK6 OPTION VALUE                      JM64
LCLC &NDVRON        &NDVRENV OPTION VALUE                    10JM60
LCLC &PANSNU        PANVALET SYS #                      10DV80
LCLC &PANTYP        PANVALET DEVICE TYPE                    10DV80
LCLC &PCDE(14)     JM70
LCLC &PCDWK         &PRODCDE VALIDATION WORK VARIABLE
LCLC &PCDWKC        &PRODCDE VALIDATION WORK VARIABLE
LCLC &PMTB(7)       &PROGMOD TABLE FOR OPTION VALUES
LCLC &PRDCODE       &PRODCDE OPTION VALUE
LCLC &PRENV         PREFERRED NAME FOR ENVIRONMENT        DM70
LCLC &PRTER60       &PRTRER6 OPTION VALUE                    JM64
LCLC &RCHAR         RE-ROUTE OPTION VALUE                      8DV80
LCLC &RPTDN        RPTDDNM VALUE                          07JM60
LCLC &RVAL          RE-ROUTE OPTION VALUE                    8DV80
LCLC &SITENUM       &REFNO OPTION VALUE
LCLC &SRTDEV        SORTWORK DEVICE NAME
LCLC &SRTNAM        SORT PROGRAM NAME
LCLC &STATPID       &STATPLN OPTION VALUE                    22JB80
LCLC &STATSID       &STATSYS OPTION VALUE                    22JB80
LCLC &SUBLB         ALTERNATE COPY LIBRARY
LCLC &TIMS          &TIMESEP OPTION VALUE                      JM70
LCLC &WKDEV2        VSE WORK FILE DEVICE ALTERNATE (2)
LCLC &WRKSYS#       &WRKFSYS OPTION VALUE

.*
LCLB &ABORT         ABORT ASSEMBLY FOR MANDATORY PARMS
LCLB &CI(8)         VISION:RESULTS COMMON FLAG BYTE BITS

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LCLB &C1(8) FIRST COMMON FLAG BYTE BITS
LCLB &C2(8) SECOND COMMON FLAG BYTE BITS
LCLB &C3(8) THIRD COMMON FLAG BYTE BITS
LCLB &C4(8) FOURTH COMMON FLAG BYTE BITS JM64
LCLB &C5(8) FIFTH COMMON FLAG BYTE BITS JM70
LCLB &C6(8) SIXTH COMMON FLAG BYTE BITS DM70
LCLB &C7(8) DV80
LCLB &CF8(8) JM80
LCLB &CF9(8) 07JM60

LCLB &CFA(8) 07RH60
LCLB &C8(8) VISION:EIGHTY COMMON FLAG BYTE AG70
LCLB &CURL &CURNCY VALUE TYPE 0=C, 1=X JM70
LCLB &D(8) VSE FLAG BYTE BITS
LCLB &M(8) VSE 2.1 FLAG BYTE BITS
LCLB &M1(8) MORE VSE 2.1 FLAGS JM70
LCLB &O(8) MVS FLAG BYTE BITS
LCLB &O1(8) MVS SECOND FLAG BYTE BITS JM70
LCLB &OI(8) VISION:RESULTS MVS FLAG BYTE BITS
LCLB &OSCMS CMS OPERATING SYSTEM ID JM64
LCLB &OSDOS VSE OPERATING SYSTEM ID
LCLB &OSDOS21 VSE OPERATING SYSTEM ID (2.1 +)
LCLB &OSFUJI FUJITSU MSP OPERATING SYSTEM JM64
LCLB &OSOS MVS/CMS OPERATING SYSTEM ID
LCLB &PD282 VISION:RESULTS PRODUCT ID AG70
LCLB &PD280 VISION:EIGHTY PRODUCT ID AG70
LCLB &PD270 VISION:SEVENTY PRODUCT ID AG70
LCLB &PD260 VISION:SIXTY PRODUCT ID AG70
LCLB &PMA PROGRAM MODE BITS: XREFA,
LCLB &PME NO EXPONENTIATION,
LCLB &PMR XREFREF,
LCLB &PMS STRUCTURED,
LCLB &PMU USERDEFAULT, JM64
LCLB &PM2 STRUCTURED2 JM64
LCLB &SITE &SITENO SPECIFIED JM64
LCLB &SITINV &SITENO INVALID JM64
*****
.*
.* INITIALIZE SET SYMBOL DEFAULT VALUES *
.*
.*
*****
&CBUF SETA 60 CONDBUF DEFAULT SIZE JM70
&CMPWRK SETA 1500 COMPWRK DEFAULT (BASE) VALUE 07JB60
&CONDOR SETA 8192 SUP452E DEFAULT VALUE 07JM60
&FREE SETA 1000 FREEMEM DEFAULT (BASE) VALUE 07JB60
&FRGTMX SETA &GETMX-1000 SET MAX FREEMEM IF GETMAX DEFAULTS
&GETMX SETA 2500 GETMAX DEFAULT (BASE) VALUE 07JB60
&KWDL1 SETA 0 LEN-1 OF KWDLT(1) 07JM60
&KWDL2 SETA 0 LEN-1 OF KWDLT(2) 07JM60
&KWDL3 SETA 0 LEN-1 OF KWDLT(3) 07JM60
&KWDL4 SETA 0 LEN-1 OF KWDLT(4) 07JM60
&KWDL5 SETA 0 LEN-1 OF KWDLT(5) 07JM60
&KWDL6 SETA 0 LEN-1 OF KWDLT(6) 07JM60
&KWDL7 SETA 0 LEN-1 OF KWDLT(7) 07JM60
&KWDL8 SETA 0 LEN-1 OF KWDLT(8) 07JM60
&KWDL9 SETA 0 LEN-1 OF KWDLT(9) 07JM60
&KWDL10 SETA 0 LEN-1 OF KWDLT(10) 07JM60
&KWDL11 SETA 0 LEN-1 OF KWDLT(11) 07JB60
&KWDL12 SETA 0 LEN-1 OF KWDLT(12) 07JB60
&KWDL13 SETA 0 LEN-1 OF KWDLT(13) 07JB60
&KWDL14 SETA 0 LEN-1 OF KWDLT(14) 07JB60
&KWDL15 SETA 0 LEN-1 OF KWDLT(15) 07JB60
&KWDL16 SETA 0 LEN-1 OF KWDLT(16) 07JB60
&KWDL17 SETA 0 LEN-1 OF KWDLT(17) 07JB60
&KWDL18 SETA 0 LEN-1 OF KWDLT(18) 07JB60
&KWDL19 SETA 0 LEN-1 OF KWDLT(19) 07JB60
&KWDL20 SETA 0 LEN-1 OF KWDLT(20) 07JB60
&LBUF SETA 60 LIBRBUF DEFAULT SIZE JM70
&PBUF SETA 60 PANVBUF DEFAULT SIZE JM70
&SDEV9 SETA 14 9 + L ('SYSDA')
&SEQMAX SETA 700 CORE=MAX SORT SPACE = 700K
&SMAX SETA 100 MAXIMUM SORT SPACE = 100K
&SMIN SETA 36 MINIMUM SORT SPACE = 36K
&SRMAX SETA 100 RESET MAXIMUM SORT SPACE = 100K
&WKDEV1 SETA 0 VSE WORK FILE (1) DEVICE DEFAULT
.*

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&BANNER SETC ' ' DEFAULT VALUE FOR NULL BANNER HEADER
&BATIQ SETC 'IIBATCH' DEFAULT VALUE FOR BATCHIQ JM70
&CENTNW SETC '75' DEFAULT VALUE FOR CENTNEW JB70
&CENT1 SETC ' ' DEFAULT VALUE FOR CENTRY1 JB70
&CENT2 SETC ' ' DEFAULT VALUE FOR CENTRY2 JB70
&CPFX SETC 'VISION:' PRODUCT PREFIX JM70
&COBED SETC 'A' COBOL EDIT CODE DEFAULT VALUE
&CURVAL SETC '$' DEFAULT CURRENCY VALUE JB70
&DLMVAR SETC ' ' DELIM STRING 02JM80
&DOSMACH SETC '04' MACHCOR DEFAULT VALUE
&DOSWRK SETC 'IJSYS04' WRKFNAM DEFAULT VALUE
&DB2CPID SETC 'DYLDB2' DEFAULT VALUE FOR DB2CAT PLNID JB70
&DB2CSID SETC 'DB2A' DEFAULT VALUE FOR DB2CAT SYSID JB70
&DB2PID SETC 'DYLDB2' DEFAULT VALUE FOR DB2 PLAN ID JB70
&DB2SID SETC 'DB2A' DEFAULT VALUE FOR DB2 SYS ID JB70
&D2DEC9 SETC ' ' DB2DEC9 OPTION VALUE
&FRZDDN SETC 'SYS280FZ' FREEZDD DEFAULT VALUE JM70
AIF ('&PRODUCT' NE '60').SETDN JM80
&FRZDDN SETC 'SYS260FZ' JM80
.SETDN ANOP
&KWD1 SETC ' ' DEFAULT FOR KWDLT(1) 07JM60
&KWD2 SETC ' ' DEFAULT FOR KWDLT(2) 07JM60
&KWD3 SETC ' ' DEFAULT FOR KWDLT(3) 07JM60
&KWD4 SETC ' ' DEFAULT FOR KWDLT(4) 07JM60
&KWD5 SETC ' ' DEFAULT FOR KWDLT(5) 07JM60
&KWD6 SETC ' ' DEFAULT FOR KWDLT(6) 07JM60
&KWD7 SETC ' ' DEFAULT FOR KWDLT(7) 07JM60
&KWD8 SETC ' ' DEFAULT FOR KWDLT(8) 07JM60
&KWD9 SETC ' ' DEFAULT FOR KWDLT(9) 07JM60
&KWD10 SETC ' ' DEFAULT FOR KWDLT(10) 07JM60
&KWD11 SETC ' ' DEFAULT FOR KWDLT(11) 07JB60
&KWD12 SETC ' ' DEFAULT FOR KWDLT(12) 07JB60
&KWD13 SETC ' ' DEFAULT FOR KWDLT(13) 07JB60
&KWD14 SETC ' ' DEFAULT FOR KWDLT(14) 07JB60
&KWD15 SETC ' ' DEFAULT FOR KWDLT(15) 07JB60
&KWD16 SETC ' ' DEFAULT FOR KWDLT(16) 07JB60
&KWD17 SETC ' ' DEFAULT FOR KWDLT(17) 07JB60
&KWD18 SETC ' ' DEFAULT FOR KWDLT(18) 07JB60
&KWD19 SETC ' ' DEFAULT FOR KWDLT(19) 07JB60
&KWD20 SETC ' ' DEFAULT FOR KWDLT(20) 07JB60
&LIBNAM SETC 'MASTER ' LIBRARIAN DLBL NAME 10DV80
&LIBSNU SETC '026' LIBRARIAN SYS# DEFAULT 10DV80
&LINES SETC '55' PGLINES DEFAULT VALUE
&LINER SETC '55' PGLINER DEFAULT VALUE
&MAXDN SETC '50' MAXDNLN DEFAULT VALUE AG70
&MAXDIOU SETC '175' MAXDIOU DEFAULT VALUE
&MRWK60 SETC 'SYSWRK' DEFAULT VALUE FOR ZOS &MRWRK6 JM60
AIF ('&ENVIRON' EQ 'MVS').SETMRW JM60
&MRWK60 SETC 'SYSWRK' DEFAULT VALUE FOR VSE &MRWRK6 JM60
.SETMRW ANOP
&NDVRON SETC ' ' DEFAULT FOR ENDEVOR ENVIRON 10JM60
&PANSNU SETC '026' PANVALET SYS# DEFAULT 10DV80
&PANTYP SETC 'CKD ' PANVALET DEVICE TYPE DEFAULT 07JM60
&PMTB(1) SETC 'STRUCT' PROGRAM ...
&PMTB(2) SETC 'USERDEF' ... MODE ...
&PMTB(3) SETC 'STRUCT2' ... VARIABLE ...
&PMTB(4) SETC 'XREFREF' ... TABLE ...
&PMTB(5) SETC 'XREFA' ... OF ...
&PMTB(6) SETC 'NOXREF' ... VALUES ... JM64
&PMTB(7) SETC 'NOEXP' ..... JM64
&RCHAR SETC 'SYSLOG' RE-ROUTE DEFAULT VALUE 8JM80
&RPTDN SETC 'SYS280R ' DEFAULT REPORT DDNAME 07JM60
AIF ('&PRODUCT' NE '60').SETRDN 07JM60
&RPTDN SETC 'SYS260R ' 07JM60
.SETRDN ANOP 07JM60
&RVAL SETC '11' RE-ROUTE DEFAULT VALUE 8DV80
&SRTDEV SETC 'SYSDA' SORTWORK DEVICE NAME
&SRTNAM SETC 'SORT' SORT PROGRAM DEFAULT NAME
&STATPID SETC 'STATDB2' DEFAULT VALUE FOR STATIC PLAN 22JB80
&STATSID SETC 'DB2A' DEFAULT VALUE FOR STATIC SSID 22JB80
&SUBLB SETC 'D' CPYSBLB DEFAULT VALUE
&TIMS SETC 'D' TIMESEP DEFAULT VALUE JM70
&WKDEV2 SETC '0' VSE WORK FILE (2) DEVICE DEFAULT
&WRKSYS# SETC '4' WRKFSYS DEFAULT VALUE
.*
&PMR SETB 1 DEFAULT XREF OPTION

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&C4(1)  SETB  1          DEFAULT PRINT OPTIONS ACTIVE.      JM64
&C8(5)  SETB  0          DEFAULT SINGLE SEL ROW ONLY OFF22JB80
&C8(6)  SETB  0          DEFLT NO DB2STATIC AUTO ERR MSG22JB80
&C8(7)  SETB  0          DEFAULT NO COPYDB2 NULL INDICAT22JB80
&D(1)   SETB  1          DEFAULT VSE INIT SYSVARS           JM60
*****
.*
.*
.* PARAMETER VALIDATION IS DIVIDED INTO TWO MAJOR SECTIONS:      AG70 *
.* (1) REQUIRED PARAMETERS                                         AG70 *
.* (2) OPTIONAL PARAMETERS                                         AG70 *
.* VALIDATION IS TERMINATED WHEN MANDATORY PARAMETERS DO NOT    AG70 *
.* PASS VALIDATION.                                              *
.*
.*
.*
.* CHECK FOR REQUIRED PRODUCT AND SYSTEM PARAMETERS              *
.* (PRODUCT, ENVIRON, REFNO)                                     *
.* ELIMINATE PROCDE AS REQUIRED PARAMETER                        JM60 *
*****
AIF ('&PRODUCT' NE '' AND '&ENVIRON' NE '') .PRODENV
AIF ('&PRODUCT' NE '') .NOENV
AIF ('&ENVIRON' NE '') .TSTENV
*****
.*
.* BOTH 'PRODUCT' AND 'ENVIRON' ARE OMITTED                      *
.*
.*
.* MNOTE 12, 'NEITHER PRODUCT NOR ENVIRONMENT SPECIFIED.'      *
.* AGO .PEABORT SET ABORT BIT                                    AG70
*****
.*
.* 'PRODUCT' NOT SPECIFIED; HOWEVER, VALIDATE 'ENVIRON'        *
.*
.*
*****
TSTENV ANOP
.* === ASMF DOES NOT ALLOW MORE THAN 2 CONTINUATION LINES IN A MACRO.
.* === CONSIDER THIS WHEN CHANGING THE FOLLOWING LINES.          DM70
AIF (('&ENVIRON' NE 'MVS') AND ('&ENVIRON' NE 'VSE2.1') AND X
    ('&ENVIRON' NE 'VSE') AND ('&ENVIRON' NE 'DOSVS') AND X
    ('&ENVIRON' NE 'DOS2.1')).BADENV DM70
MNOTE 12, 'PRODUCT NOT SPECIFIED FOR ENVIRONMENT &ENVIRON..'
AGO .PEABORT SET ABORT BIT AG70
.BADENV ANOP
MNOTE 12, 'INVALID ENVIRONMENT, &ENVIRON SPECIFIED; PRODUCT NOT-
SPECIFIED.'
AGO .PEABORT SET ABORT BIT AG70
*****
.*
.* 'ENVIRON' NOT SPECIFIED; HOWEVER, VALIDATE 'PRODUCT'        *
.*
.*
*****
.NOENV ANOP
AIF (('&PRODUCT' NE 'II') AND ('&PRODUCT' NE '80') X
    AND ('&PRODUCT' NE '70') X
    AND ('&PRODUCT' NE '60')).BADPROD
MNOTE 12, 'ENVIRONMENT NOT SPECIFIED FOR PRODUCT &PRODUCT..'
AGO .PEABORT SET ABORT BIT AG70
.BADPROD ANOP
MNOTE 12, 'INVALID PRODUCT, &PRODUCT SPECIFIED; ENVIRONMENT NOT-
SPECIFIED.'
AGO .PEABORT SET ABORT BIT AG70
*****
.*
.* VALIDATE BOTH 'PRODUCT' AND 'ENVIRON' PARAMETERS            *
.*
.*
*****
.PRODENV ANOP
AIF (('&ENVIRON' EQ 'MVS') OR ('&ENVIRON' EQ 'DOSVS') X
    OR ('&ENVIRON' EQ 'VSE2.1') OR ('&ENVIRON' EQ 'VSE') X
    OR ('&ENVIRON' EQ 'DOS2.1')).ENVOK DM70
AIF (('&PRODUCT' EQ 'II') OR ('&PRODUCT' EQ '80') X
    OR ('&PRODUCT' EQ '70') OR ('&PRODUCT' EQ '60')).PRODOK X
MNOTE 12, 'INVALID ENVIRONMENT - &ENVIRON - SPECIFIED AND INVALI
ID PRODUCT - &PRODUCT - SPECIFIED.'
AGO .PEABORT SET ABORT BIT AG70
.PRODOK ANOP

```

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```

MNOTE 12, 'INVALID ENVIRONMENT - &ENVIRON - SPECIFIED FOR PRODUC
CT &PRODUCT..'
      AGO .PEABORT          SET ABORT BIT          AG70
.ENVOK ANOP
      AIF (('&PRODUCT' EQ 'II') OR ('&PRODUCT' EQ '80')          X
OR ('&PRODUCT' EQ '70') OR ('&PRODUCT' EQ '60')).ENVPRF1
MNOTE 12, 'INVALID PRODUCT - &PRODUCT - SPECIFIED FOR ENVIRONMEN
NT &ENVIRON..'
      .PEABORT ANOP          SET ABORT BIT          AG70
&ABORT SETB 1
      .ENVPRF1 ANOP
      .*
      .* SET &PRENV, PREFERRED ENVIRONMENT NAME, TO THE VALUE          DM70
      .* ENTERED BY THE USER IN &ENVIRON.          DM70
      .* IF &ENVIRON IS 'DOSVS' OR 'DOS2.1' THEN USE          DM70
      .* 'VSE' OR 'VSE2.1' AS THE PREFERRED NAME IN &PRENV.          DM70
      .* FROM THIS POINT FORWARD, USE &PRENV AS THE INSERT IN ANY          DM70
      .* MESSAGES THAT ARE ISSUED.          DM70
      .*
      .*
&PRENV SETC '&ENVIRON'          SET ENVIRON SPECIFIED BY USER          DM70
      AIF ('&ENVIRON' EQ 'DOSVS').ENVPRF2          DM70
      AIF ('&ENVIRON' EQ 'DOS2.1').ENVPRF3          DM70
      AGO .MCHK2          DM70
      .ENVPRF2 ANOP          DM70
&PRENV SETC 'VSE'          SET PREFERRED ENVIRON ENTRY          DM70
      AGO .ENVPRF4          DM70
      .ENVPRF3 ANOP          DM70
&PRENV SETC 'VSE2.1'          SET PREFERRED ENVIRON ENTRY          DM70
      .ENVPRF4 ANOP          DM70
      MNOTE 4, '&PRENV IS THE NEW PARAMETER NAME FOR &ENVIRON..'          DM70
      .MCHK2 ANOP          DM70
      .*****
      .*
      .* &PRDCDE
      .* NO LONGER REQUIRED          JM60
      .*****
      .*
&PRDCODE SETC ' '          SET NULL VALUE FOR DSECT          AG70
      AGO .PRDCDE_X          AG70
      .PRDCSCT ANOP          CHECK PRODUCT CODE          AG70
      AIF ('&PRDCDE' NE ' ').CCHEKPC
&PCDE (1) SETC 'XXXX'          JM60
&PCDE (2) SETC 'XXXX'          JM60
&PCDE (3) SETC 'XXXX'          JM60
&PCDE (4) SETC 'XXXX'          JM60
&PCDE (5) SETC 'XXXX'          JM60
&PCDE (6) SETC 'XXXX'          JM60
&PCDE (7) SETC 'XXXX'          JM60
      AGO .PRDCDE_A
      .CCHEKPC ANOP
      MNOTE 4, ' PRDCDE PARAMETER IS NO LONGER REQUIRED.          X
THE OPTION IS IGNORED.'          JB60
      .PRDCDE_A ANOP          JM60
      AIF ('&PRENV' EQ 'VSE').PRDCDE_X BYPASS SETC CONCAT          DM70
&PRDCODE SETC '&PCDE (1) .&PCDE (2) .&PCDE (3) .&PCDE (4) .&PCDE (5) .&PCDE (6) .&P
PCDE (7) .&PCDE (8) .&PCDE (9) .&PCDE (10) .&PCDE (11) .&PCDE (12) .&
&PCDE (13) .&PCDE (14) '          JM70
      .PRDCDE_X ANOP
      AIF ('&SECT' EQ 'DSECT').SITDSCT DSECT BYPASS** AHG/09.08.89
      .*****
      .*
      .* &SITENO
      .*
      .*****
      .*
&SITE SETB 1          INDICATE &SITENO SPECIFIED          JM64
      MNOTE 4, 'REFNO SHOULD BE USED INSTEAD OF SITENO.'          JM64
      AIF ('&SITENO EQ 6) .CASGNSI
&SITINV SETB 1          INDICATE SITENO INVALID          JM64
      AGO .MCHK5
      .CASGNSI ANOP
&SITENUM SETC '&SITENO'          SET SITE NUMBER
      .MCHK5 ANOP
      .*****JM64
      .*
      .* &REFNO - (NEW PARAMETER NAME FOR SITENO)          JM64

```

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```

.*      CUSTOMER REFERENCE NUMBER                                JM64
*****
      AIF  ('&REFNO' NE ' ').CCHEKRF                            JM64
      AIF  (&SITE).AAAM5          NO REFNO, BUT SITENO SPECIFIED JM64
      AGO  .SITDSCT                                                    07JB60
&ABORT  SETB 1                                                       JM64
      AGO  .MCHK6                                                       JM64
.AAAM5   ANOP                                     NO REFNO, BUT OLD SITENO USED JM64
      AIF  (NOT &SITINV).MCHK6      OLD SITENO VALID, WAS ASSGND
      MNOTE 12,'PARAMETER SITENO - &SITENO - INVALID. REFNO SHOULD B
      BE SPECIFIED IN FUTURE.' JM64
&ABORT  SETB 1                                                       JM64
      AGO  .MCHK6                                                       JM64
.CCCEKRF ANOP                                     JM64
      AIF  (K'&REFNO NE 6).BBBM5   JM64
      AIF  (NOT &SITE).CASGNRF      REFNO OK, NO SITENO JM64
      MNOTE 4,'BOTH SITENO AND REFNO PARAMETERS SPECIFIED. ONLY REFNO
      O WILL BE USED.' JM64
      MNOTE ' ONLY REFNO SHOULD BE USED IN THE FUTURE.' JM64
      AGO  .CASGNRF JM64
.BBBM5   ANOP          REFNO IS INVALID JM64
      AIF  (&SITE).CCCM5          GO CHECK SITENO JM64
      MNOTE 12,'PARAMETER REFNO - &REFNO - INVALID. NOT 6 CHARACTERS
      LONG.' JM64
&ABORT  SETB 1                                                       JM64
      AGO  .MCHK6 JM64
.CCCM5   ANOP          REFNO INVALID, SITENO SPECIFIED JM64
      AIF  (&SITINV).DDDM5        SITNO OK, WAS ASSGND JM64
      MNOTE 4,'PARAMETER REFNO - &REFNO - INVALID. NOT 6 CHARACTERS L
      LONG. SITENO - &SITENO - WILL BE USED.' JM64
      MNOTE 4,' ONLY REFNO SHOULD BE USED IN THE FUTURE.' JM64
      AGO  .MCHK6 JM64
.DDDM5   ANOP JM64
      MNOTE 12,'BOTH REFNO AND SITENO PARAMETERS INVALID - NOT 6 CHAR
      RACTERS LONG.' JM64
      MNOTE 12,' ONLY REFNO SHOULD BE USED IN THE FUTURE.' JM64
&ABORT  SETB 1 JM64
      AGO  .MCHK6 JM64
.SITDSCT ANOP AG70
&SITENUM SETC ' ' SET NULL FOR DSECT JM64
      AGO  .PARMS JM64
.CASGNRF ANOP JM64
&SITENUM SETC '&REFNO' SET CUSTOMER REFERENCE NUMBER JM64
.PARMS   ANOP JM64
.MCHK6   ANOP JM64
      AIF  (NOT &ABORT).VALCONT
      MNOTE 12,'MACRO GENERATION TERMINATED DUE TO ABOVE ERROR(S) INX
      MANDATORY INSTALLATION PARAMETERS'
      MEXIT
.VALCONT ANOP
      AIF  ('&PRODUCT' NE 'II').DOVAL0 AG70
&CNAM   SETC 'RESULTS' JM70
      AGO  .DOVAL JM70
.DOVAL0 ANOP JM70
      AIF  ('&PRODUCT' NE '80').DOVAL1 JM70
&CNAM   SETC 'EIGHTY' JM70
      AGO  .DOVAL JM70
.DOVAL1 ANOP JM70
      AIF  ('&PRODUCT' NE '60').DOVAL2 JM70
&CNAM   SETC 'SIXTY' JM70
      AGO  .DOVAL JM70
.DOVAL2 ANOP JM70
&CNAM   SETC 'SEVENTY' JM70
      AGO  .DOVAL JM70
      AIF  ('&PRENV' NE 'MVS').VALOK1 DM70
&OSOS   SETB 1 SET OPSYS = MVS JM70
      AGO  .VALEX JM70
.VALOK1 ANOP JM70
&OSDOS  SETB 1 SET OPSYS = VSE JM70
      AIF  ('&PRENV' EQ 'VSE').VALEX DM70
&OSDOS21 SETB 1 SET OPSYS = VSE 2.1 + JM70
      AGO  .VALEX JM70
*****
.*      AG70 *
.* THIS SECTION BEGINS VALIDATION OF OPTIONAL PARAMETERS. *
.*      AG70 *

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*****
*****
*
* &ASALINE                II/O
*
*****
      AIF ('&ASALINE' EQ '').ASALINE_Z                JM60
      AIF (&OSOS).ASALINE V                            07JM60
      MNOTE 8,'PARAMETER ASALINE NOT AVAILABLE FOR ENVIRON=&ENVIRON.X
      ..
      THE OPTION IS IGNORED.'                          JB60
      AGO .ASALINE X                                    JM60
      AIF (('&PRODUCT' EQ 'II') OR
          ('&PRODUCT' EQ '80')).ASALINE V            JM60
      MNOTE 4,'PARAMETER ASALINE NOT AVAILABLE FOR &CPFX.&CNAM.. X
      THE OPTION IS IGNORED.'                          JB60
      AGO .ASALINE_Z CHECK NEXT PARAMETER             JM60
.ASALINE_V ANOP                                       JM60
      AIF ('&ASALINE' EQ 'Y').ASALINE G              JM60
      AIF ('&ASALINE' EQ 'N').ASALINE N              JM60
      MNOTE 8,'PARAMETER ASALINE VALUE - &ASALINE - IS INVALID. X
      THE OPTION IS IGNORED.'                          JB60
      AGO .ASALINE_Z CHECK NEXT PARAMETER             JM60
.ASALINE_N ANOP                                       JM70
&OI(1) SETB 0 SET ALLOW PHANTOM LINE FOR ASA         JM60
      AGO .ASALINE_Z CHECK NEXT PARAMETER             JM60
.ASALINE_G ANOP                                       JM70
&OI(1) SETB 1 SET NO PHANTOM LINE, ASA REPORT
.ASALINE_Z ANOP                                       JM70
*****JM60
* &BATCHIQ                II/O                JM70
* REPLACEMENT IQBATCH LOAD MODULE NAME        JM70
*****JM70
      AIF ('&BATCHIQ' EQ '').BATCHIQ_Z              JM60
      AIF (&OSOS).BATCHIQ A                        07JM60
      MNOTE 8,'PARAMETER BATCHIQ NOT AVAILABLE FOR ENVIRON=&ENVIRON.X
      ..
      THE OPTION IS IGNORED.'                          JB60
      AGO .BATCHIQ_Z                                  JM60
.BATCHIQ_A ANOP                                       JM60
      AIF ('&PRODUCT' EQ 'II').BATCHIQ_T            JM60
      MNOTE 4,'PARAMETER BATCHIQ NOT AVAILABLE FOR &CPFX.&CNAM.. X
      THE OPTION IS IGNORED.'                          JB60
&BATIQ SETC ' ' SET NULL PARAMETER                  JM70
      AGO .BATCHIQ_Z CHECK NEXT PARAMETER             JM60
.BATCHIQ_T ANOP                                       JM60
      AIF (K'&BATCHIQ LE 8).BATCHIQ_G              JM60
      MNOTE 8,'PARAMETER BATCHIQ GREATER THAN 8 CHARACTERS. X
      THE DEFAULT WILL BE USED.'                      JB60
      AGO .BATCHIQ_Z CHECK NEXT PARAMETER             JM60
.BATCHIQ_G ANOP                                       JM60
&BATIQ SETC '&BATCHIQ' ASSIGN MODULE NAME          JM70
.BATCHIQ_Z ANOP                                       JM60
*****AG70
*
* &CATPLAN * THIS IS THE PREFERRED (NEW) NAME * AG70
*
* II/A * JM60
* &D2PLNID * THIS IS AN ALIAS (OLD NAME) * AG70
*
* * AG70
*****AG70
*
* THESE TWO SYMBOLIC PARAMETERS ARE PROCESSED TOGETHER. * AG70
*
* * AG70
*****AG70
      AIF ('&CATPLAN' EQ '').CATPLAN_ON            JM60
      AIF (('&PRODUCT' EQ 'II') OR
          ('&PRODUCT' EQ '80')).CATPLAN_VA        JM60
      MNOTE 4,'PARAMETER CATPLAN NOT AVAILABLE FOR &CPFX.&CNAM.. X
      THE OPTION IS IGNORED.'                          JB60
      AGO .CATPLAN_ON CHECK D2PLNID FOR NOT NULL     JM60
.CATPLAN_VA ANOP                                       JM60
      AIF (K'&CATPLAN LE 8).CATPLAN_G              JM60
      MNOTE 8,'PARAMETER CATPLAN GREATER THAN 8 CHARACTERS.' AG70
      AIF ('&D2PLNID' EQ '').CATPLAN_IG           JM60
      MNOTE 8,' THE OPTION IS IGNORED. D2PLNID WILL BE USED.'
      AGO .CATPLAN_VO                                  JM60

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.CATPLAN_IG ANOP JM60
MNOTE 8, ' THE OPTION IS IGNORED.' AG70
AGO .CATPLAN_Z PROCESS NEXT PARAMETER JM60
.CATPLAN_G ANOP JM60
&DB2CPID SETC '&CATPLAN' ASSIGN PLAN ID NAME AG70
&C3(5) SETB 1 INDICATE PLAN ID NAME PRESENT AG70
AIF ('&D2PLNID' EQ '') .CATPLAN_Z JM60
MNOTE 4, 'PARAMETER D2PLNID VALUE -&D2PLNID- WILL BE OVERRIDDENN
BY CATPLAN VALUE -&CATPLAN.' JM64
AGO .CATPLAN_Z PROCESS NEXT PARAMETER JM60
.CATPLAN_ON ANOP JM60
AIF ('&D2PLNID' EQ '') .CATPLAN_Z JM60
AIF (('&PRODUCT' EQ 'II') OR X
('&PRODUCT' EQ '80')) .CATPLAN_VO JM60
MNOTE 4, 'PARAMETER D2PLNID NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .CATPLAN_Z PROCESS NEXT PARAMETER JM60
.CATPLAN_VO ANOP JM60
AIF (K'&D2PLNID LE 8) .CATPLAN_OG JM60
MNOTE 8, 'PARAMETER D2PLNID GREATER THAN 8 CHARACTERS.' AG70
MNOTE 8, ' THE OPTION IS IGNORED.' DM70
AGO .CATPLAN_Z PROCESS NEXT PARAMETER JM60
.CATPLAN_OG ANOP JM60
&DB2CPID SETC '&D2PLNID' ASSIGN PLAN ID NAME AG70
&C3(5) SETB 1 INDICATE PLAN ID NAME PRESENT AG70
.CATPLAN_Z ANOP JM60
***** AG70
.* * AG70
.* &CATSYS * THIS IS THE PREFERRED (NEW) NAME * AG70
.* * II/A * JM60
.* &D2SYSID * THIS IS AN ALIAS (OLD NAME) * AG70
.* * * AG70
***** AG70
.* * AG70
.* THESE TWO SYMBOLIC PARAMETERS ARE PROCESSED TOGETHER. * AG70
.* * * AG70
***** AG70
AIF ('&CATSYS' EQ '') .CATSYS_ON JM60
AIF (('&PRODUCT' EQ 'II') OR X
('&PRODUCT' EQ '80')) .CATSYS_VA JM60
MNOTE 4, 'PARAMETER CATSYS NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .CATSYS_ON CHECK D2SYSID FOR NULL JM60
.CATSYS_VA ANOP CHECK CATSYS JM60
AIF (K'&CATSYS LE 8) .CATSYS_G JM60
MNOTE 8, 'PARAMETER CATSYS GREATER THAN 8 CHARACTERS' AG70
AIF ('&D2SYSID' EQ '') .CATSYS_IG JM60
MNOTE 8, ' THE OPTION IS IGNORED. D2SYSID WILL BE USED.' JM60
AGO .CATSYS_VO JM60
.CATSYS_IG ANOP JM60
MNOTE 8, ' THE OPTION IS IGNORED.' DM70
AGO .CATSYS_Z CHECK NEXT PARAMETER JM60
.CATSYS_G ANOP CHECK CATSYS JM60
&DB2CSID SETC '&CATSYS' ASSIGN SYS ID NAME AG70
&C3(6) SETB 1 INDICATE SYS ID NAME PRESENT AG70
AIF ('&D2SYSID' EQ '') .CATSYS_Z JM60
MNOTE 4, 'PARAMETER D2SYSID VALUE -&D2SYSID- WILL BE OVERRIDDENN
BY CATSYS VALUE -&CATSYS.' JM64
AGO .CATSYS_Z CHECK NEXT PARAMETER JM60
.CATSYS_ON ANOP CHECK D2SYSID JM60
AIF ('&D2SYSID' EQ '') .CATSYS_Z JM60
AIF (('&PRODUCT' EQ 'II') OR X
('&PRODUCT' EQ '80')) .CATSYS_VO JM60
MNOTE 4, 'PARAMETER D2SYSID NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .CATSYS_Z CHECK NEXT PARAMETER JM60
.CATSYS_VO ANOP CHECK D2SYSID JM60
AIF (K'&D2SYSID LE 8) .CATSYS_OG KM60
MNOTE 8, 'PARAMETER D2SYSID GREATER THAN 8 CHARACTERS.' AG70
MNOTE 8, ' THE OPTION IS IGNORED.' DM70
AGO .CATSYS_Z CHECK NEXT PARAMETER JM60
.CATSYS_OG ANOP CHECK D2SYSID JM60
&DB2CSID SETC '&D2SYSID' AG70
&C3(6) SETB 1 AG70
.CATSYS_Z ANOP JM60
*****11JM60

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.*
.* &CBXSIGN II/A 11JM60
.* IGNORE/HANDLE COBOL EXTERNAL SIGN CLAUSE 11JM60
.* *****11JM60
AIF ('&CBXSIGN' EQ ' ').CBXSIGN_N 11JM60
AIF ('&PRODUCT' NE '60').CBXSIGN_V 11JM60
MNOTE 8,'PARAMETER CBXSIGN NOT AVAILABLE FOR &CPFX.SIXTY.'
AGO .CBXSIGN_X CHECK NEXT ONE 11JM60
.CBXSIGN_V ANOP 11JM60
AIF ('&CBXSIGN' EQ 'Y').CBXSIGN_S 11JM60
AIF ('&CBXSIGN' EQ 'N').CBXSIGN_N 11JM60
MNOTE 8,'PARAMETER CBXSIGN VALUE - &CBXSIGN - IS INVALID.'JM60
MNOTE 8,' THE OPTION IS IGNORED.' 11JM60
.CBXSIGN_N ANOP 11JM60
&CF8(3) SETB 0 TURN OFF OPTION 11JM60
AGO .CBXSIGN_X TEST NEXT OPTION 11JM60
.CBXSIGN_S ANOP 11JM60
&CF8(3) SETB 1 PROCESS EXTERNAL SIGN CLAUSE 11JM60
.CBXSIGN_X ANOP 11JM60
.*
.* &CDLOAD A/M * JM70
.* * JM70
.* * JM70
.* ***** JM70
AIF ('&CDLOAD' EQ ' ').CDLOAD_N JM60
AIF (&OSDOS21).CDLOAD_V JM60
MNOTE 8,'PARAMETER CDLOAD NOT AVAILABLE FOR ENVIRONMENT &PRENV.
.' JM70
&M1(1) SETB 0 TURN OFF OPTION JM70
&M1(2) SETB 0 AND OVERRIDE JM70
AGO .CDLOAD_X CHECK NEXT ONE JM60
.CDLOAD_V ANOP JM60
AIF ('&CDLOAD' EQ 'Y').CDLOAD_Y JM60
AIF ('&CDLOAD' EQ 'N').CDLOAD_N JM60
MNOTE 8,'PARAMETER CDLOAD VALUE - &CDLOAD - IS INVALID.' JM70
MNOTE 8,' THE OPTION IS IGNORED.' JM70
.CDLOAD_N ANOP JM60
&M1(1) SETB 0 TURN OFF OPTION JM70
&M1(2) SETB 0 AND OVERRIDE JM70
AGO .CDLOAD_X CHECK NEXT ONE JM60
.CDLOAD_Y ANOP JM60
&M1(1) SETB 1 TURN ON OPTION JM70
&M1(2) SETB 0 TURN OFF OVERRIDE JM70
.CDLOAD_X ANOP JM60
.*
.* &CENTNEW A/A JM60
.* * JB70
.* ***** JB70
AIF ('&CENTNEW' EQ ' ').CENTNEW_X JM60
AIF (T'&CENTNEW EQ 'N').CENTNEW_A JM60
MNOTE 8,'PARAMETER CENTNEW ASSIGNED A NONNUMERIC VALUE' JB70
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.' JB70
AGO .CENTNEW_X JM60
.CENTNEW_A ANOP JM60
&CENTNW SETC '&CENTNEW' ASSIGN USER'S VALUE TO CENTNEW JB70
AGO .CENTNEW_X JM60
.CENTNEW_X ANOP JM60
.*
.* &CENTRY1 A/A JM60
.* * JB70
.* ***** JB70
AIF ('&CENTRY1' EQ ' ').CENTRY1_O JM60
AIF ('&CENTRY1' EQ ' ').CENTRY1_A JM60
AIF (T'&CENTRY1 EQ 'N').CENTRY1_A JM60
MNOTE 8,'PARAMETER CENTRY1 ASSIGNED AN INVALID VALUE.' JB70
MNOTE 8,'NUMBERS OR A BLANK ARE THE VALID VALUES.' JB70
AIF ('&CENTRY2' NE ' ').CENTRY1_I JM60
MNOTE 4,'THE DEFAULT VALUE OF BLANK WILL BE USED.' JB70
AGO .CENTRY1_X JM60
.CENTRY1_A ANOP JM60
&CENT1 SETC '&CENTRY1' ASSIGN USER'S VALUE TO CENTRY1 JB70
AIF ('&CENTRY1' NE ' ').CENTRY1_X JM60
AIF (T'&CENTRY2 EQ 'N').CENTRY1_S JM60
AGO .CENTRY1_X JM60

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.CENTRY1_S ANOP JM60
  MNOTE 8, 'PARAMETER CENTRY2 ASSIGNED A NUMERIC VALUE.' JB70
  AGO .CENTRY1_I JM60
.CENTRY1_O ANOP JM60
  AIF ('&CENTRY2' EQ '').CENTRY1_X JM60
  MNOTE 8, 'PARAMETER CENTRY2 ASSIGNED A VALUE.' JB70
  AGO .CENTRY1_I JM60
.CENTRY1_I ANOP JM60
&CENT1 SETC '&CENTRY2' ASSIGN CENTRY2 VALUE TO CENTRY1 JB70
  MNOTE 4, 'THE CENTRY2 VALUE WILL BE ASSIGNED TO CENTRY1.' JB70
.CENTRY1_X ANOP JM60
***** JB70
.* JB70
.* &CENTRY2 A/A JM60
.* JB70
***** JB70
  AIF ('&CENTRY2' EQ '').CENTRY2_X JM60
  AIF ('&CENTRY2' EQ ' ').CENTRY2_A JM60
  AIF (T'&CENTRY2 EQ 'N').CENTRY2_A JM60
  MNOTE 8, 'PARAMETER CENTRY2 ASSIGNED AN INVALID VALUE.' JB70
  MNOTE 8, 'NUMBERS OR A BLANK ARE THE VALID VALUES.' JB70
  AIF ('&CENTRY1' NE ' ').CENTRY2_O JM60
  MNOTE ' THE DEFAULT VALUE OF BLANK WILL BE USED.' JB70
  AGO .CENTRY2_X JM60
.CENTRY2_A ANOP JM60
&CENT2 SETC '&CENTRY2' ASSIGN USER'S VALUE TO CENTRY2 JB70
  AIF ('&CENTRY2' NE ' ').CENTRY2_X JM60
  AIF (T'&CENTRY1 EQ 'N').CENTRY2_S JM60
  AGO .CENTRY2_X JM60
.CENTRY2_S ANOP JM60
  MNOTE 8, 'PARAMETER CENTRY1 ASSIGNED A NUMERIC VALUE.' JB70
  AGO .CENTRY2_O JM60
.CC00AS ANOP JB70
  AIF ('&CENTRY1' EQ '').CENTRY2_X JM60
  MNOTE 8, 'PARAMETER CENTRY1 ASSIGNED A VALUE.' JB70
  AGO .CENTRY2_O JM60
.CENTRY2_O ANOP JM60
&CENT2 SETC '&CENTRY1' ASSIGN CENTRY1 VALUE TO CENTRY2 JB70
  MNOTE ' THE CENTRY1 VALUE WILL BE ASSIGNED TO CENTRY2.' JB70
.CENTRY2_X ANOP JM60
***** RH60
.* RH60
.* &COBAPOS II/A RH60
.* RH60
.* APPLIES TO COBOL VALUE CLAUSES CONTAINING LITERALS RH60
.* WITH EMBEDDED DOUBLE APOSTROPHES. RH60
.* COBAPOS=Y IMPLIES CONVERSION TO A SINGLE APOSTROPHE RH60
.* RH60
.* DYLINSTL AND OPTION CARD FUNCTIONALITY RH60
***** RH60
  AIF ('&COBAPOS' EQ '').COBAPOS_S JB60
  AIF ('&PRODUCT' NE '60').COBAPOS_V RH60
  MNOTE 8, 'PARAMETER COBAPOS NOT AVAILABLE FOR &CPFX.SIXTY.' JB60
  AGO .COBAPOS_X CHECK NEXT ONE RH60
.COBAPOS_V ANOP RH60
  AIF ('&COBAPOS' EQ 'Y').COBAPOS_S RH60
  AIF ('&COBAPOS' EQ 'N').COBAPOS_N RH60
  MNOTE 8, 'PARAMETER COBAPOS VALUE - &COBAPOS - IS INVALID.' H60
  MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.' JB60
  AGO .COBAPOS_S GO TO DEFAULT VALUE JB60
.COBAPOS_N ANOP RH60
&CFA(3) SETB 0 TURN OFF OPTION RH60
  AGO .COBAPOS_X TEST NEXT OPTION RH60
.COBAPOS_S ANOP RH60
&CFA(3) SETB 1 CONVERT TO SINGLE APOSTROPHE RH60
.COBAPOS_X ANOP RH60
***** JB70
.*
.* &COBEDIT II/A
.*
***** JB70
  AIF ('&COBEDIT' EQ '').COBEDIT_X JM60
  AIF (('&PRODUCT' EQ '80') OR X
    ('&PRODUCT' EQ 'II')).COBEDIT_V JM60
  MNOTE 4, 'PARAMETER COBEDIT NOT AVAILABLE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.' JB60

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        AGO .COBEDIT_X JM60
.COBEDIT_V ANOP JM60
  AIF (('&COBEDIT' EQ 'A') OR ('&COBEDIT' EQ 'H') OR X
      ('&COBEDIT' EQ 'X') OR X
      ('&COBEDIT' EQ 'W')).COBEDIT_A JM60
  AIF (('&COBEDIT' EQ 'B') OR ('&COBEDIT' EQ 'E') OR X
      ('&COBEDIT' EQ 'Z') OR ('&COBEDIT' EQ 'Q')).COBEDIT_A
  AIF (('&COBEDIT' EQ 'Y') OR ('&COBEDIT' EQ 'U') OR X
      ('&COBEDIT' EQ 'F') OR ('&COBEDIT' EQ 'G')).COBEDIT_A
  AIF (('&COBEDIT' EQ 'K') OR ('&COBEDIT' EQ 'J') OR X
      ('&COBEDIT' EQ 'L')).COBEDIT_A JM60
  AIF ('&COBEDIT' NE '-').COBEDIT_D JM60
&COBED SETC ' ' TRANSLATED VALUE FOR '-'
        AGO .COBEDIT_X JM60
.COBEDIT_D ANOP JM60
  MNOTE 8, 'PARAMETER COBEDIT ASSIGNED AN INVALID VALUE - &COBEDI
      IT -.'
  MNOTE 8, ' DEFAULT VALUE WILL BE USED.'
        AGO .COBEDIT_X JM60
.COBEDIT_A ANOP JM70
&COBED SETC '&COBEDIT' COBOL EDIT CODE JB70
.COBEDIT_X ANOP JM60
*****7JM70
.* 7JM70
.* &COBENV A/O 7JM70
.* 7JM70
*****7JM70
  AIF ('&COBENV' EQ '').COBENV_N JM60
  AIF (&OSOS).COBENV_V JM60
  MNOTE 8, 'PARAMETER COBENV NOT AVAILABLE FOR ENVIRON=&ENVIRON..'
      ' 7JM70
  MNOTE 8, ' THE OPTION IS IGNORED.'
        AGO .COBENV_X JM60
.COBENV_V ANOP JM60
  AIF ('&COBENV' EQ 'Y').COBENV_A JM60
  AIF ('&COBENV' EQ 'N').COBENV_N JM60
  MNOTE 8, 'PARAMETER COBENV - &COBENV - IS INVALID.' 7JM70
  MNOTE 8, ' THE OPTION IS IGNORED.' 7JM70
        AGO .COBENV_X JM60
.COBENV_N ANOP JM60
&O1(3) SETB 0 INDICATE NO COBII ENVIRON JM60
        AGO .COBENV_X JM60
.COBENV_A ANOP JM60
  AIF ('&LE' NE 'N').COBENV_X IGNORE COBENV IF LE ON JB60
&O1(3) SETB 1 INDICATE COBII ENVIRON 7JM70
.COBENV_X ANOP JM60
*****7JM64
.* 7JM64
.* &COB2NR A/O JM64
.* USER COBOLII NON-RES SUBROUTINES JM64
*****7JM64
  AIF ('&COB2NR' EQ '').COB2NR_N JM60
  AIF (&OSOS).COB2NR_V JM60
  MNOTE 8, 'PARAMETER COB2NR NOT AVAILABLE FOR ENVIRON=&ENVIRON..'
      ' 7JM70
  MNOTE 8, ' THE OPTION IS IGNORED.'
        AGO .COB2NR_X JM60
.COB2NR_V ANOP JM60
  AIF ('&COB2NR' EQ 'Y').COB2NR_A JM60
  AIF ('&COB2NR' EQ 'N').COB2NR_N JM60
  MNOTE 8, 'PARAMETER COB2NR OPTION - &COB2NR - IS INVALID.' JM64
  MNOTE 8, ' THE OPTION IS IGNORED.' JM64
        AGO .COB2NR_X JM60
.COB2NR_N ANOP JM60
&C4(2) SETB 0 INDICATE NO USER COBII NORES SUBRS. JM60
        AGO .COB2NR_X JM60
.COB2NR_A ANOP JM60
&C4(2) SETB 1 INDICATE USER COBOLII NON-RES SUBRS JM64
.COB2NR_X ANOP JM60
*****
.*
.* &COMPERR A/O,M JM70
.*
*****
  AIF ('&COMPERR' EQ '').COMPERR_N JM60
  AIF (&OSDOS21).COMPERR_V JM60

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        AIF (&OSOS).COMPERR_V JM60
MNOTE 8,'PARAMETER COMPERR NOT AVAILABLE FOR ENVIRONMENT &PRENX
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .COMPERR_X JM60
.COMPERR_V ANOP JM60
AIF ('&COMPERR' EQ 'Y').COMPERR_A JM60
AIF ('&COMPERR' EQ 'N').COMPERR_N JM60
MNOTE 8,'PARAMETER COMPERR OPTION - &COMPERR - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .COMPERR_X JM60
.COMPERR_N ANOP JM60
&C4(8) SETB 0 COMPILER ERROR IS U004 ABEND JM60
AGO .COMPERR_X JM60
.COMPERR_A ANOP JM60
&C4(8) SETB 1 COMPILER ERROR IS RETURN CODE JM70
.COMPERR_X ANOP JM60
.*****
.*
.* &COMPWRK A/O
.*
.*****
        AIF ('&COMPWRK' EQ ' ').COMPWRK_D JM60
        AIF (&OSOS).COMPWRK_V JM60
MNOTE 8,'PARAMETER COMPWRK NOT AVAILABLE FOR ENVIRON=&ENVIRON..
.' 7JM70
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .COMPWRK_D JM60
.COMPWRK_V ANOP JM60
AIF ('&COMPWRK' EQ '&CMPWRK').COMPWRK_D JM60
AIF (T'&COMPWRK EQ 'N').COMPWRK_L JM60
MNOTE 8,'PARAMETER COMPWRK VALUE IS INVALID - &COMPWRK.'
MNOTE 8,' THE DEFAULT VALUE - &CMPWRK - WILL BE USED.'
AGO .COMPWRK_D JM60
.COMPWRK_L ANOP JM60
AIF ('&COMPWRK' GE '16').COMPWRK_H OK - GE MIN JM60
MNOTE 8,'PARAMETER COMPWRK OPTION - &COMPWRK - IS LESS THAN MIN
NIMUM.'
MNOTE 8,' MINIMUM VALUE - 16K - IS ASSIGNED.'
&CMPWRK SETA 16*1024 ASSIGN MINIMUM VALUE
AGO .COMPWRK_X CHECK NEXT PARAMETER JM60
.COMPWRK_H ANOP JM60
AIF (&COMPWRK LE 9999).COMPWRK_A OK - LE MAX JM60
MNOTE 8,'PARAMETER COMPWRK EXCEEDS MAX OF 9999'
MNOTE 8,' DEFAULT VALUE OF 256 WILL BE USED'
.COMPWRK_D ANOP JM60
&CMPWRK SETA &COMPWRK*1024
AGO .COMPWRK_X JM60
.COMPWRK_A ANOP JM60
&CMPWRK SETA &COMPWRK*1024 SET COMPILER WORK AREA SIZE
.COMPWRK_X ANOP JM60
.*****
.*
.* &CONDBUF II/D,M JM70
.* JM60
.* JM70
.*****JM70
        AIF (&OSDOS21).CONDBUF_E JM60
        AIF (&OSDOS).CONDBUF_E JM60
        AIF ('&CONDBUF' EQ 'I').CONDBUF_X MSG IF MVS & VALUE JM60
MNOTE 8,'PARAMETER CONDBUF NOT AVAILABLE FOR ENVIRONMENT &PRENX
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .CONDBUF_X JM60
.CONDBUF_E ANOP JM60
AIF ('&CONDBUF' EQ ' ').CONDBUF_O JM60
AIF ('&PRODUCT' NE '60').CONDBUF_V JM60
MNOTE 4,'PARAMETER CONDBUF NOT AVAILABLE FOR &CPFX.&CNAM..
THE OPTION IS IGNORED.' JB60
&CBUF SETA 0 SET DEFAULT VALUE=0 DM70
AGO .CONDBUF_X CHECK NEXT PARAMETER JM60
.CONDBUF_V ANOP JM60
AIF ('&CONDBUF' EQ '&CBUF').CONDBUF_D DEFAULT REQUESTED JM60
AIF (T'&CONDBUF EQ 'N').CONDBUF_H JM60
MNOTE 8,'PARAMETER CONDBUF VALUE IS INVALID - &CONDBUF..' JM70
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.' JM70
AGO .CONDBUF_D SET DEFAULT VALUE JM60

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.CONDBUF_H ANOP                                JM60
  AIF (&CONDBUF LE 9999).CONDBUF_L            JM60
  MNOTE 8,'PARAMETER CONDBUF IS GREATER THAN 9999.' JM70
  MNOTE 8,' 9999 WILL BE USED.'              JM70
&CBUF SETA 9999*1024                            JM70
  AGO .CONDBUF_X CHECK NEXT PARAMETER        JM60
.CONDBUF_L ANOP                                JM60
  AIF (&CONDBUF GE 60).CONDBUF_S             JM60
  MNOTE 8,'PARAMETER CONDBUF IS LESS THAN 60.' DM70
  MNOTE 8,' 60 WILL BE USED.'              JM70
  AGO .CONDBUF_D SET DEFAULT VALUE          JM60
.CONDBUF_S ANOP                                JM60
&CBUF SETA &CONDBUF*1024 SET REQUESTED VALUE JM70
  AGO .CONDBUF_X CHECK NEXT PARAMETER        DM70
.CONDBUF_O ANOP                                JM60
&CBUF SETA 0 INDICATE CONDBUF NOT CODED     JM70
  AGO .CONDBUF_X CHECK NEXT PARAMETER        DM70
.CONDBUF_D ANOP                                JM60
&CBUF SETA &CBUF*1024 SET DEFAULT VALUE     DM70
.CONDBUF_X ANOP                                JM60
*****JM70
.*
.* &CPYSBLB II/D,M
.*
*****JM70
  AIF (&OSDOS21).CPYSBLB_E JM60
  AIF (&OSDOS).CPYSBLB_E JM60
  AIF ('&CPYSBLB' EQ 'T').CPYSBLB_X MSG IF MVS & VALUE JM60
  MNOTE 8,'PARAMETER CPYSBLB NOT AVAILABLE FOR ENVIRONMENT &PRENX
  V.' DM70
  MNOTE ' THE OPTION IS IGNORED.'
  AGO .CPYSBLB_X JM60
.CPYSBLB_E ANOP JM60
  AIF ('&CPYSBLB' EQ '').CPYSBLB_X JM60
  AIF ('&PRODUCT' NE '60').CPYSBLB_V JM60
  MNOTE 4,'PARAMETER CPYSBLB NOT AVAILABLE FOR &CPFX.SIXTY. X
  THE OPTION IS IGNORED.' JB60
  AGO .CPYSBLB_X CHECK NEXT PARAMETER JM60
.CPYSBLB_V ANOP JM60
  AIF ('&CPYSBLB' EQ 'D').CPYSBLB_X JM60
  AIF ('&CPYSBLB' EQ 'C').CPYSBLB_S JM60
  MNOTE 8,'PARAMETER CPYSBLB OPTION - &CPYSBLB - IS INVALID.'
  MNOTE 8,' THE DEFAULT VALUE WILL BE USED.'
  AGO .CPYSBLB_X CHECK NEXT PARAMETER JM60
.CPYSBLB_S ANOP JM60
&SUBLB SETC '&CPYSBLB' ASSIGN ALTERNATE COPY LIBRARY
.CPYSBLB_X ANOP JM60
*****JB70
.*
.* &CURNCY A/A
.*
*****JB70
  AIF ('&CURNCY' EQ '').CURNCY_X JM60
  AIF (K'&CURNCY EQ 1).CURNCY_P JM60
  AIF ('&CURNCY'(1,2) EQ 'X').CURNCY_H JM60
  AIF ('&CURNCY'(1,2) NE 'C').CURNCY_E JM60
  AIF ('&CURNCY'(4,1) NE ' ').CURNCY_E JM60
&CURVAL SETC '&CURNCY'(3,1) JB70
  AGO .CURNCY_X JM60
.CURNCY_H ANOP JM60
&CURL SETB 1 JM70
  AIF ('&CURNCY'(5,1) NE ' ').CURNCY_E JM60
  AIF (('&CURNCY'(3,1) GE '0') AND
  ('&CURNCY'(3,1) LE '9')).CURNCY_F JM60
  AIF (('&CURNCY'(3,1) GE 'A') AND
  ('&CURNCY'(3,1) LE 'F')).CURNCY_F X
  AGO .CURNCY_E JM60
.CURNCY_F ANOP JM60
  AIF (('&CURNCY'(4,1) GE '0') AND
  ('&CURNCY'(4,1) LE '9')).CURNCY_S X
  AIF (('&CURNCY'(4,1) GE 'A') AND
  ('&CURNCY'(4,1) LE 'F')).CURNCY_S JM60
  AGO .CURNCY_E JM60
.CURNCY_S ANOP JM60
&CURVAL SETC '&CURNCY'(3,2) JB70
  AGO .CURNCY_X JM60

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.CURNCY_P ANOP JM60
&CURVAL SETC '&CURNCY' JB70
          AGO .CURNCY_X JM60
.CURNCY_E ANOP JM60
          MNOTE 8,'PARAMETER CURNCY ASSIGNED AN INVALID VALUE.' JB70
          MNOTE 8,' THE DEFAULT VALUE WILL BE USED.' JB70
.CURNCY_X ANOP JM60
*****JB70
.*
.* &DATATR N A/A
.*
*****JB70
          AIF ('&DATATR N' EQ '') .DATATR N_X JM60
          AIF ('&DATATR N' EQ 'N') .DATATR N_A JM60
          AIF ('&DATATR N' EQ 'Y') .DATATR N_X JM60
          MNOTE 8,'PARAMETER DATATR N OPTION - &DATATR N - IS INVALID.'
          MNOTE 8,' THE OPTION IS IGNORED.'
          AGO .DATATR N_X CHECK NEXT PARAMETER JM60
.DATATR N_A ANOP JM60
&C2(1) SETB 1 DATA TRANSLATION OPTION SELECTED
.DATATR N_X ANOP JM60
*****JB70
.*
.* &DB2DEC9 II/A
.*
*****JB70
          AIF ('&DB2DEC9' EQ '') .DB2DEC9_X JM60
          AIF ('&DB2DEC9' EQ 'N') .DB2DEC9_X JM60
          AIF ('&PRODUCT' NE '60') .DB2DEC9_V JM60
          MNOTE 4,'PARAMETER DB2DEC9 NOT AVAILABLE FOR &CPFX.SIXTY. X
          THE OPTION IS IGNORED.' JB60
          AGO .DB2DEC9_X JM60
.DB2DEC9_V ANOP JM60
          AIF ('&DB2DEC9' EQ 'Y') .DB2DEC9_S JM60
          MNOTE 8,'PARAMETER DB2DEC9 OPTION - &DB2DEC9 - IS INVALID.'
          MNOTE 8,' THE OPTION IS IGNORED.'
          AGO .DB2DEC9_X JM60
.DB2DEC9_S ANOP JM60
&D2DEC9 SETC 'C' GENERATE CHARACTER DEFINITION
.DB2DEC9_X ANOP JM60
*****22JB80
.*
.* &DB2ERR II/A
.* AUTOMATIC ERROR MESSAGE HANDLING FOR DB2 SQL ERRORS ARE 22JB80
.* DONE BY INTERFACE FOR DB2 DYNAMIC/STATIC. 22JB80
*****22JB80
          AIF ('&DB2ERR' EQ '') .DB2ERR_X JM60
          AIF (('&PRODUCT' EQ 'II') OR
              ('&PRODUCT' EQ '80')) .DB2ERR_V JM60
          MNOTE 4,'PARAMETER DB2ERR NOT AVAILABLE FOR &CPFX.&CNAM.. X
          THE OPTION IS IGNORED.' JB60
          AGO .DB2ERR_X CHECK NEXT PARAMETER JM60
.DB2ERR_V ANOP JM60
          AIF ('&DB2ERR' EQ 'Y') .DB2ERR_X JM60
          AIF ('&DB2ERR' EQ 'N') .DB2ERR_A JM60
          MNOTE 8,'PARAMETER DB2ERR OPTION - &DB2ERR - IS INVALID.'
          MNOTE 8,' THE OPTION IS IGNORED.' 22JB80
          AGO .DB2ERR_X CHECK NEXT PARAMETER JM60
.DB2ERR_A ANOP JM60
&C8(6) SETB 1 NO AUTOMATIC ERROR MSG HANDLING 22JB80
.DB2ERR_X ANOP JM60
*****22JB80
.*
.* &DB2NULL II/A
.* COPYDB2 CREATES NULL INDICATOR FIELDS FOR FIELDS THAT 22JB80
.* ALLOW VALUES 22JB80
*****22JB80
          AIF ('&DB2NULL' EQ '') .DB2NULL_X JM60
          AIF (('&PRODUCT' EQ 'II') OR
              ('&PRODUCT' EQ '80')) .DB2NULL_V JM60
          MNOTE 4,'PARAMETER DB2NULL NOT AVAILABLE FOR &CPFX.&CNAM.. X
          THE OPTION IS IGNORED.' JB60
          AGO .DB2NULL_X CHECK NEXT PARAMETER JM60
.DB2NULL_V ANOP JM60
          AIF ('&DB2NULL' EQ 'Y') .DB2NULL_A JM60
          AIF ('&DB2NULL' EQ 'N') .DB2NULL_X JM60

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MNOTE 8,'PARAMETER DB2NULL OPTION - &DB2NULL - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.' 22JB80
AGO .DB2NULL_X CHECK NEXT PARAMETER JM60
.DB2NULL_A ANOP JM60
&C8(7) SETB 1 COPYDB2 CREATES NULL INDICATORS22JB80
.DB2NULL_X ANOP JM60
*****22JB80
.*
.* &DB2PLAN II/A
.* DB2 DATABASE PLAN ID *****22JB80
AIF ('&DB2PLAN' EQ '').DB2PLAN_X JM60
AIF (('&PRODUCT' EQ 'II') OR
('&PRODUCT' EQ '80')).DB2PLAN_V JM60
MNOTE 4,'PARAMETER DB2PLAN NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .DB2PLAN_X CHECK NEXT PARAMETER JM60
.DB2PLAN_V ANOP JM60
AIF (K'&DB2PLAN LE 8).DB2PLAN_A JM60
MNOTE 8,'PARAMETER D2PLNID GREATER THAN 8 CHARACTERS.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .DB2PLAN_X CHECK NEXT PARAMETER JM60
.DB2PLAN_A ANOP JM60
&DB2PID SETC '&DB2PLAN' ASSIGN PLAN ID NAME AG70
&C3(7) SETB 1 INDICATE PLAN ID NAME PRESENT
.DB2PLAN_X ANOP JM60
*****22JB80
.*
.* &DB2SNGL II/A
.* DB2 DYNAMIC ALLOW SINGLE SELECT TO RETRIEVE ONE ROW ONLY 22JB80
*****22JB80
AIF ('&DB2SNGL' EQ '').DB2SNGL_X JM60
AIF (('&PRODUCT' EQ 'II') OR
('&PRODUCT' EQ '80')).DB2SNGL_V JM60
MNOTE 4,'PARAMETER DB2SNGL NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .DB2SNGL_X CHECK NEXT PARAMETER JM60
.DB2SNGL_V ANOP JM60
AIF ('&DB2SNGL' EQ 'Y').DB2SNGL_A JM60
AIF ('&DB2SNGL' EQ 'N').DB2SNGL_X JM60
MNOTE 8,'PARAMETER DB2SNGL OPTION - &DB2SNGL - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.' 22JB80
AGO .DB2SNGL_X CHECK NEXT PARAMETER JM60
.DB2SNGL_A ANOP JM60
&C8(5) SETB 1 TURN ON SINGLE SEL ROW ALLOWED 22JB80
.DB2SNGL_X ANOP JM60
*****22JB80
.*
.* &DB2SYS II/A
.* DB2 DATABASE SUBSYSTEM ID *****22JB80
AIF ('&DB2SYS' EQ '').DB2SYS_X JM60
AIF (('&PRODUCT' EQ 'II') OR
('&PRODUCT' EQ '80')).DB2SYS_V JM60
MNOTE 4,'PARAMETER DB2SYS NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .DB2SYS_X CHECK NEXT PARAMETER JM60
.DB2SYS_V ANOP JM60
AIF (K'&DB2SYS LE 8).DB2SYS_A JM60
MNOTE 8,'PARAMETER DB2SYS GREATER THAN 8 CHARACTERS.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .DB2SYS_X CHECK NEXT PARAMETER JM60
.DB2SYS_A ANOP JM60
&DB2SID SETC '&DB2SYS' ASSIGN SYS ID NAME AG70
&C3(8) SETB 1 INDICATE SYS ID NAME PRESENT
.DB2SYS_X ANOP JM60
*****AG70
.*
.* &DECIML9 II/A
.* *****AG70
AIF ('&DECIML9' EQ '').DECIML9_N JM60
AIF ('&DECIML9' EQ 'E').DECIML9_N JM60
AIF ('&PRODUCT' NE '60').DECIML9_V JM60
MNOTE 4,'PARAMETER DECIML9 NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60

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        AGO .DECIML9_N JM60
.DECIML9_V ANOP JM60
        AIF ('&DECIML9' EQ 'S') OR X
            ('&DECIML9' EQ 'W').DECIML9_A JM60
        MNOTE 8,'PARAMETER DECIML9 OPTION - &DECIML9 - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .DECIML9_N JM60
.DECIML9_A ANOP
&DEC9 SETC ' &DECIML9' SET TO 'S' OR 'W'
        AGO .DECIML9_X CHECK NEXT PARAMETER JM60
.DECIML9_N ANOP JM60
&DEC9 SETC ' ' OPTION NOT SELECTED
.DECIML9_X ANOP JM60
*****02JM80
.* 02JM80
.* &DELIM II/A 02JM80
.* 02JM80
*****02JM80
        AIF ('&DELIM' EQ '') .DELIM_X JM60
        AIF ('&PRODUCT' EQ 'II') .DELIM_V JM60
        MNOTE 4,'PARAMETER DELIM NOT AVAILABLE FOR &CPFX.&CNAM.. X
            THE OPTION IS IGNORED.' JB60
        AGO .DELIM_X CHECK NEXT PARAMETER JM60
.DELIM_V ANOP JM60
        AIF ('&DELIM' (1,2) EQ 'X') .DELIM_H JM60
        AIF ('&DELIM' (1,2) NE 'C') .DELIM_I JM60
        AIF ('&DELIM' (4,1) NE '') .DELIM_I JM60
        AIF ('&DELIM' (3,1) EQ ' ') .DELIM_I JM60
        AGO .DELIM_A JM60
.DELIM_H ANOP DO HEX DELIM JM60
        AIF ('&DELIM' (5,1) NE '') .DELIM_I JM60
        AIF ('&DELIM' (3,2) EQ '40') .DELIM_I JM60
        AIF (('&DELIM' (3,1) GE '0') AND X
            ('&DELIM' (3,1) LE '9')).CB0A4B1 02JM80
        AIF (('&DELIM' (3,1) GE 'A') AND X
            ('&DELIM' (3,1) LE 'F')).CB0A4B1 02JM80
        AGO .DELIM_I JM60
.CB0A4B1 ANOP 02JM80
        AIF (('&DELIM' (4,1) GE '0') AND X
            ('&DELIM' (4,1) LE '9')).DELIM_A JM60
        AIF (('&DELIM' (4,1) GE 'A') AND X
            ('&DELIM' (4,1) LE 'F')).DELIM_A JM60
        AGO .DELIM_I JM60
.DELIM_A ANOP JM60
&DLMVAR SETC (DOUBLE '&DELIM') EXTRACT CHARACTERS 02JM80
&CF8 (1) SETB 1 SET DELIM REQUESTED 02JM80
        AGO .DELIM_X JM60
.DELIM_I ANOP JM60
        MNOTE 8,'PARAMETER DELIM ASSIGNED AN INVALID VALUE.' 02JM80
.DELIM_X ANOP JM60
*****07JM60
.* 07JM60
.* &DLMFRST A/A 07JM60
.* Y/N DELIMIT CHARACTER IN FRONT OF 1ST FIELD USING DELIM 07JM60
*****07JM60
        AIF ('&DLMFRST' EQ '') .DLMFRST_X 07JB60
        AIF ('&DLMFRST' EQ 'N') .DLMFRST_X 07JM60
        AIF ('&DLMFRST' EQ 'Y') .DLMFRST_A 07JM60
        MNOTE 8,'PARAMETER DLMFRST OPTION - &DLMFRST - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .DLMFRST_X CHECK NEXT PARAMETER 07JM60
.DLMFRST_A ANOP 07JM60
&CF9 (3) SETB 1 PLACE DELIMITER IN FRONT OF 1ST 7JM60
.DLMFRST_X ANOP 07JM60
*****AG70
.*
.* &DUPCBNM II/A
.*
*****AG70
        AIF ('&DUPCBNM' EQ '') .DUPCBNM_X JM60
        AIF ('&DUPCBNM' EQ 'N') .DUPCBNM_X JM60
        AIF ('&PRODUCT' NE '60') .DUPCBNM_V JM60
        MNOTE 4,'PARAMETER DUPCBNM NOT AVAILABLE FOR &CPFX.SIXTY. X
            THE OPTION IS IGNORED.' JB60
        AGO .DUPCBNM_X CHECK NEXT PARAMETER JM60
.DUPCBNM_V ANOP JM60

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Figure 44 Sample DYLINSTL Member (Page 19 of 56)

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        AIF ('&DUPCBNM' EQ 'Y').DUPCBNM_A JM60
        MNOTE 8,'PARAMETER DUPCBNM OPTION - &DUPCBNM - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .DUPCBNM_X CHECK NEXT PARAMETER JM60
.DUPCBNM_A ANOP JM60
&C1(1) SETB 1 DUPLICATE COBOL DATANAMES OPTION
.DUPCBNM_X ANOP JM60
*****AG70
.*
.* &DYLVARP II/A
.*
*****AG70
        AIF ('&DYLVARP' EQ '').DYLVARP_X JM60
        AIF ('&DYLVARP' EQ 'N').DYLVARP_X JM60
        AIF ('&PRODUCT' NE '60').DYLVARP_V JM60
        MNOTE 4,'PARAMETER DYLVARP NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .DYLVARP_X CHECK NEXT PARAMETER JM60
.DYLVARP_V ANOP JM60
        AIF ('&DYLVARP' EQ 'Y').DYLVARP_A JM60
        MNOTE 8,'PARAMETER DYLVARP OPTION - &DYLVARP - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .DYLVARP_X CHECK NEXT PARAMETER JM60
.DYLVARP_A ANOP JM60
&C1(5) SETB 1 DATANAME PREFIX "DYL", NO WARNING
.DYLVARP_X ANOP JM60
*****JB70
.*
.* &DYL4YR A/A
.*
*****JB70
        AIF ('&DYL4YR' EQ '').DYL4YR_X JM60
        AIF ('&DYL4YR' EQ 'N').DYL4YR_X JM60
        AIF ('&DYL4YR' EQ ' ').DYL4YR_X JM60
        AIF ('&DYL4YR' EQ 'Y').DYL4YR_A JM60
        MNOTE 8,'PARAMETER DYL4YR HAS AN INVALID VALUE.' JB70
        MNOTE 8,' THE OPTION IS IGNORED.' JB70
        AGO .DYL4YR_X JM60
.DYL4YR_A ANOP JM60
&C6(5) SETB 1 SYSPRINT/SYSLST PRINT 4 DIGIT YR JB70
.DYL4YR_X ANOP AM60
*****JB60
.*
.* &EDALIGN A/A
.*
.* PRINT SINGLE 0 WHEN FIELD CONTAINS ZEROS AND USING EDIT CODE P JB60
.*
*****JB60
        AIF ('&EDALIGN' EQ '').EDALIGN_X JB60
        AIF ('&EDALIGN' EQ 'N').EDALIGN_X JB60
        AIF ('&EDALIGN' EQ 'Y').EDALIGN_A JB60
        MNOTE 8,'PARAMETER EDALIGN OPTION - &EDALIGN - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.' JB60
        AGO .EDALIGN_X JB60
.EDALIGN_A ANOP JB60
&CFA(5) SETB 1 SET EDIT CODE ALIGNMENT JB60
.EDALIGN_X ANOP JB60
*****RH60
.*
.* &EDP1ZERO A/A
.*
.* PRINT SINGLE 0 WHEN FIELD CONTAINS ZEROS AND USING EDIT CODE P RH60
.*
*****RH60
        AIF ('&EDP1ZERO' EQ '').EDP1ZERO_X RH60
        AIF ('&EDP1ZERO' EQ 'N').EDP1ZERO_X RH60
        AIF ('&EDP1ZERO' EQ 'Y').EDP1ZERO_A RH60
        MNOTE 8,'PARAMETER EDP1ZERO OPTION - &EDP1ZERO - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.' RH60
        AGO .EDP1ZERO_X RH60
.EDP1ZERO_A ANOP RH60
&CFA(1) SETB 1 SET PRINT SINGLE ZERO - P EDIT RH60
.EDP1ZERO_X ANOP RH60
*****13617973
.*
.* &EDSUPR A/A 13617973

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```

.* SUPPRESS BLANK BEFORE EDITED # IF LESS THAN 0                13617973
.* EDIT CODES Y/F/G/K/X/H/J/L/U/Q                               13617973
*****
AIF ('&EDSUPR' EQ '').EDSUPR_X                                  13617973
AIF ('&EDSUPR' EQ 'N').EDSUPR_X                                 13617973
AIF ('&EDSUPR' EQ 'Y').EDSUPR_A                                 13617973
MNOTE 8,'PARAMETER EDSUPR OPTION - &EDSUPR - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'                               13617973
AGO .EDSUPR_X                                                    13617973
.EDSUPR_A ANOP                                                    13617973
&CF9(6) SETB 1 SET SUPPRESS BLNK OPTION                         13617973
.EDSUPR_X ANOP                                                    13617973
*****JB70
.*
.* &EURODAT A/A
.*
*****JB70
AIF ('&EURODAT' EQ '').EURODAT_X                               JM60
AIF ('&EURODAT' EQ 'N').EURODAT_X                               JM60
AIF ('&EURODAT' EQ 'Y').EURODAT_A                               JM60
MNOTE 8,'PARAMETER EURODAT OPTION - &EURODAT - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .EURODAT_X                                                    JM60
.EURODAT_A ANOP                                                    JM60
&C5(8) SETB 1 SET EUROPEAN DATE OPTION                         09JM80
.EURODAT_X ANOP                                                    JM60
*****JB70
.*
.* &EURONUM A/A
.*
*****JB70
AIF ('&EURONUM' EQ '').EURONUM_X                               JM60
AIF ('&EURONUM' EQ 'N').EURONUM_X                               JM60
AIF ('&PRODUCT' NE '70').EURONUM_V MNOTE VISION:SEVENTY        JM60
MNOTE 4,'PARAMETER EURONUM NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.'                                         JB60
AGO .EURONUM_X CHECK NEXT PARAMETER                             JM60
.EURONUM_V ANOP                                                    JM60
AIF ('&EURONUM' EQ 'Y').EURONUM_A                               JM60
MNOTE 8,'PARAMETER EURONUM OPTION - &EURONUM - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .EURONUM_X CHECK NEXT PARAMETER                             JM60
.EURONUM_A ANOP                                                    JM60
&C3(4) SETB 1 SET EUROPEAN NUMERIC OPTION                       JM60
.EURONUM_X ANOP                                                    JM60
*****3012
.*
.* &EXCEL II/A
.*
*****3012
AIF ('&EXCEL' EQ '').EXCEL_X                                   JM60
AIF ('&EXCEL' EQ 'N').EXCEL_X                                   JM60
AIF ('&PRODUCT' EQ 'II').EXCEL_V                               JM60
MNOTE 4,'PARAMETER EXCEL IS NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.'                                         JB60
AGO .EXCEL_X CHECK NEXT PARAMETER                             JM60
.EXCEL_V ANOP                                                    JM60
AIF ('&EXCEL' EQ 'Y').EXCEL_A                                   JM60
MNOTE 8,'PARAMETER EXCEL OPTION - &EXCEL - IS INVALID.'        3012
MNOTE 8,' THE OPTION IS IGNORED.'                               3012
AGO .EXCEL_X CHECK NEXT PARAMETER                             JM60
.EXCEL_A ANOP                                                    JM60
&CI(4) SETB 1 OPTION EXCEL                                     3012
.EXCEL_X ANOP                                                    JM60
*****JB60
.*
.* &EXCLPAT II/A
.*
*****JB60
AIF ('&EXCLPAT' EQ '').EXCLPAT_X                               JB60
AIF ('&EXCLPAT' EQ 'N').EXCLPAT_X                               JB60
AIF ('&PRODUCT' EQ 'II').EXCLPAT_V                             JB60
MNOTE 4,'PARAMETER EXCLPAT IS NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.'                                         JB60
AGO .EXCLPAT_X CHECK NEXT PARAMETER                             JM60
.EXCLPAT_V ANOP                                                    JM60

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        AIF ('&EXCLPAT' EQ 'Y').EXCLPAT_A                JB60
        MNOTE 8,'PARAMETER EXCLPAT OPTION - &EXCLPAT - IS INVALID.'
        MNOTE 8,'        THE OPTION IS IGNORED.'        JB60
        AGO .EXCLPAT_X                CHECK NEXT PARAMETER        JB60
.EXCLPAT_A ANOP                JB60
&CF8(5) SETB 1                OPTION EXCLPAT                JB60
.EXCLPAT_X ANOP                JB60
*****DM70
.*
.* &EXPRERR                A/A                DM70
.*
.*
*****DM70
        AIF ('&EXPRERR' EQ '').EXPRERR_X                JM60
        AIF ('&EXPRERR' EQ 'N').EXPRERR_X                JM60
        AIF ('&EXPRERR' EQ 'Y').EXPRERR_A                JM60
        MNOTE 8,'PARAMETER EXPRERR OPTION - &EXPRERR - IS INVALID.'
        MNOTE 8,'        THE OPTION IS IGNORED.'        DM70
        AGO .EXPRERR_X                CHECK NEXT PARAMETER        JM60
.EXPRERR_A ANOP                JM60
&C6(3) SETB 1                EXPRERR OPTION SELECTED        DM70
.EXPRERR_X ANOP                JM6F
*****DM70
.*
.* &EXTEND                A/D,M                DM70
.*
.*
*****DM70
        AIF ('&EXTEND' EQ '').EXTEND_A                JM60
        AIF (&OSDOS21).EXTEND_E                JM60
        AIF (&OSDOS).EXTEND_E                JM60
        MNOTE 8,'PARAMETER EXTEND NOT AVAILABLE FOR ENVIRONMENT &PRENX
        V.'                DM70
        MNOTE 8,'        THE OPTION IS IGNORED.'
        AGO .EXTEND_X                JM60
.EXTEND_E ANOP                JM60
        AIF ('&EXTEND' EQ 'Y').EXTEND_A                JM60
        AIF ('&EXTEND' EQ 'N').EXTEND_N                JM60
        MNOTE 8,'PARAMETER EXTEND VALUE - &EXTEND - IS INVALID.'
        MNOTE 8,'        THE OPTION IS IGNORED.'
        AGO .EXTEND_X                CHECK NEXT PARAMETER        JM60
.EXTEND_A ANOP                JM60
&D(1) SETB 1                VSE INITIALIZES SYSTEM ITEMS        JM60
        AGO .EXTEND_X                CHECK NEXT PARAMETER        JM60
.EXTEND_N ANOP                JM60
&D(1) SETB 0                VSE WILL NOT INIT SYS ITEMS        JM60
.EXTEND_X ANOP                JM60
*****DM70
.*
.* &FREEMEM                II/O                DM70
.*
.*
*****DM70
        AIF ('&FREEMEM' EQ '').FREEMEM_D                JM60
        AIF ('&PRODUCT' NE '60').FREEMEM_C                JM60
        MNOTE 4,'PARAMETER FREEMEM NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.'                JB60
        AGO .FREEMEM_X                JM60
.FREEMEM_C ANOP                JM60
        AIF (&OSOS).FREEMEM_V                JM60
        MNOTE 8,'PARAMETER FREEMEM NOT AVAILABLE FOR ENVIRONMENT &PRENX
        V.'                DM70
        MNOTE 8,'        THE OPTION IS IGNORED.'
        AGO .FREEMEM_X                JM60
.FREEMEM_V ANOP                JM60
        AIF ('&FREEMEM' EQ '&FREE').FREEMEM_A                JM60
        AIF ('&FREEMEM' EQ '').FREEMEM_D                JM60
        AIF (T'&FREEMEM EQ 'N').FREEMEM_B                JM60
        MNOTE 8,'PARAMETER FREEMEM VALUE - &FREEMEM - MUST BE NUMERIC.'
        '
        AGO .FREEMEM_M                JM60
.FREEMEM_B ANOP                CHECK GETMAX TO INSURE FREEMEM LE GETMAX-6 JM60
        AIF ('&GETMAX' EQ '').FREEMEM_N                JM60
        AIF (T'&GETMAX NE 'N').FREEMEM_N                JM60
        AIF (&GETMAX LE 9999).FREEMEM_E                JM60
.FREEMEM_N ANOP                JM60
        AIF (&FREEMEM LE &FRGTMX).FREEMEM_A OK - DOIT        JM60
        MNOTE 8,'PARAMETER FREEMEM - &FREEMEM - EXCEEDS GETMAX DEFAULT.
        - 6 - &FRGTMX.'

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        AGO .FREEMEM_M JM60
.FREEMEM_E ANOP JM60
  AIF (&FREEMEM LE &GETMAX-6).FREEMEM_F JM60
  MNOTE 8,'PARAMETER FREEMEM - &FREEMEM - EXCEEDS GETMAX - 6.'
  AGO .FREEMEM_M JM60
.FREEMEM_F ANOP JM60
  AIF (&FREEMEM GE 6).FREEMEM_A JM60
  MNOTE 8,'PARAMETER FREEMEM - &FREEMEM - LESS THAN 6.'
.FREEMEM_M ANOP JM60
  MNOTE 8,' THE DEFAULT VALUE &FREE WILL BE USED.'
.FREEMEM_D ANOP JM60
&FREE SETA &FREE*1024 ASSIGN FREEMEM DEFAULT VALUE
  AGO .FREEMEM_X JM60
.FREEMEM_A ANOP JM60
&FREE SETA &FREEMEM*1024 ASSIGN FREEMEM VALUE
.FREEMEM_X ANOP JM60
*****DM70
.*
.* &FREEZDD A/O JM70
.* REPLACEMENT DDNAME FOR FREEZE JM70
*****DM70
  AIF ('&FREEZDD' EQ '').FREEZDD_X JM60
  AIF (&OSOS).FREEZDD_V JM60
  MNOTE 8,'PARAMETER FREEZDD NOT AVAILABLE FOR ENVIRONMENT &PRENX
  V.' DM70
  MNOTE 8,' THE OPTION IS IGNORED.'
  AGO .FREEZDD_X JM60
.FREEZDD_V ANOP JM60
  AIF (K'&FREEZDD LE 8).FREEZDD_A JM60
  MNOTE 8,'PARAMETER FREEZDD GREATER THAN 8 CHARACTERS.' JM70
  MNOTE 8,' THE OPTION IS IGNORED.'
  AGO .FREEZDD_X CHECK NEXT PARAMETER JM60
.FREEZDD_A ANOP JM60
&FRZDDN SETC '&FREEZDD' ASSIGN FREEZE DDNAME JM70
.FREEZDD_X ANOP JM60
*****JM64
.*
.* &FUJITSU (UNUSED) JM60
.* JM64
.* JM64
*****JM64
  AIF ('&FUJITSU' EQ '').FUJITSU_X JM60
  AIF ('&FUJITSU' EQ 'Y').FUJITSU_A JM60
  MNOTE 'PARAMETER FUJITSU OPTION - &FUJITSU - IS INVALID.'
  MNOTE ' THE OPTION IS IGNORED.' JM64
  AGO .FUJITSU_X JM60
.FUJITSU_A ANOP JM60
&OSFUJI SETB 0 JM60
.FUJITSU_X ANOP JM60
*****JM64
.*
.* &GETMAX II/O
.*
*****JM64
  AIF ('&GETMAX' EQ '').GETMAX_O JM60
  AIF ('&PRODUCT' NE '60').GETMAX_V JM60
  MNOTE 4,'PARAMETER GETMAX NOT AVAILABLE FOR &CPFX.SIXTY. X
  THE OPTION IS IGNORED.' JB60
  AGO .GETMAX_X CHECK NEXT PARAMETER JM60
.GETMAX_V ANOP JM60
  AIF (&OSOS).GETMAX_Z JM60
  MNOTE 8,'PARAMETER GETMAX NOT AVAILABLE FOR ENVIRONMENT &PRENX
  V.' DM70
  MNOTE 8,' THE OPTION IS IGNORED.'
  AGO .GETMAX_X JM60
.GETMAX_Z ANOP JM60
  AIF ('&GETMAX' EQ '&GETMX').GETMAX_M JM60
  AIF ('&GETMAX' NE '').GETMAX_A JM60
&GETMX SETA &GETMX*1024 ASSIGN DEFAULT GETMAIN VALUE
  AGO .GETMAX_X CHECK NEXT PARAMETER JM60
.GETMAX_A ANOP JM60
  AIF (T'&GETMAX EQ 'N').GETMAX_B JM60
  MNOTE 8,'PARAMETER GETMAX VALUE - &GETMAX - MUST BE NUMERIC.'
  AGO .GETMAX_I JM60
.GETMAX_B ANOP JM60
  AIF (&GETMAX LE 9999).GETMAX_C JM60
  MNOTE 8,'PARAMETER GETMAX VALUE - &GETMAX - EXCEEDS 9999.'

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                AGO .GETMAX_I                                AJM6
.GETMAX_C ANOP                                          JM60
                AIF (&GETMAX GE 300).GETMAX M           JM60
                MNOTE 8,'PARAMETER GETMAX VALUE - &GETMAX - LESS THAN 300.'
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.GETMAX_I ANOP                                          JM60
                MNOTE 8,'      THE DEFAULT OF &GETMX WILL BE USED.'
```

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.GETMAX_O ANOP                                          JM60
&GETMX SETA &GETMX*1024          ASSIGN DEFAULT GETMAIN VALUE
                AGO .GETMAX_X          CHECK NEXT PARAMETER          JM60
.GETMAX_M ANOP                                          JM60
&GETMX SETA &GETMAX*1024          ASSIGN MAXIMUM GETMAIN VALUE
.GETMAX_X ANOP                                          JM60
.*****07JM60
.* 07JM60
.* &KWDLT II/A 07JM70
.* DISABLE KEYWORDS FOR USE AS DATANAMES - MAX 20 NAMES 07JB70
.*****07JM60
                AIF ('&KWDLT' EQ '') .KWDLT_X 07JM60
                AIF ('&PRODUCT' NE '60') .KWDLT V 07JM60
                MNOTE 4,'PARAMETER KWDLT NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.'          JB60
                AGO .KWDLT_X 07JM60
.KWDLT_V ANOP 07JM60
&CTKN SETA N'&KWDLT 07JM60
                AIF (N'&KWDLT LE 20).KWDLT A 07JB60
                MNOTE 8,'KWDLT PARAMETER LIST CONTAINS &CTKN ITEMS, THE MAXIMUM
                M IS 20.' 07JB60
                MNOTE 8,'      THE OPTION IS IGNORED.' 07JM60
                AGO .KWDLT_X 07JM60
.KWDLT_A ANOP 07JM60
&CTKWD SETA &CTKN SET K/W COUNT 07JM60
&KWDL1 SETA K'&KWDLT(1)-1 LEN OF K/W -1 07JM60
&KWD1 SETC '&KWDLT(1)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 2).KWDLT_X 07JM60
&KWDL2 SETA K'&KWDLT(2)-1 LEN OF K/W -1 07JM60
&KWD2 SETC '&KWDLT(2)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 3).KWDLT_X 07JM60
&KWDL3 SETA K'&KWDLT(3)-1 LEN OF K/W -1 07JM60
&KWD3 SETC '&KWDLT(3)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 4).KWDLT_X 07JM60
&KWDL4 SETA K'&KWDLT(4)-1 LEN OF K/W -1 07JM60
&KWD4 SETC '&KWDLT(4)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 5).KWDLT_X 07JM60
&KWDL5 SETA K'&KWDLT(5)-1 LEN OF K/W -1 07JM60
&KWD5 SETC '&KWDLT(5)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 6).KWDLT_X 07JM60
&KWDL6 SETA K'&KWDLT(6)-1 LEN OF K/W -1 07JM60
&KWD6 SETC '&KWDLT(6)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 7).KWDLT_X 07JM60
&KWDL7 SETA K'&KWDLT(7)-1 LEN OF K/W -1 07JM60
&KWD7 SETC '&KWDLT(7)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 8).KWDLT_X 07JM60
&KWDL8 SETA K'&KWDLT(8)-1 LEN OF K/W -1 07JM60
&KWD8 SETC '&KWDLT(8)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 9).KWDLT_X 07JM60
&KWDL9 SETA K'&KWDLT(9)-1 LEN OF K/W -1 07JM60
&KWD9 SETC '&KWDLT(9)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 10).KWDLT_X 07JM60
&KWDL10 SETA K'&KWDLT(10)-1 LEN OF K/W -1 07JM60
&KWD10 SETC '&KWDLT(10)' VALUE OF K/W 07JM60
                AIF (&CTKWD LT 11).KWDLT_X 07JB60
&KWDL11 SETA K'&KWDLT(11)-1 LEN OF K/W -1 07JB60
&KWD11 SETC '&KWDLT(11)' VALUE OF K/W 07JB60
                AIF (&CTKWD LT 12).KWDLT_X 07JB60
&KWDL12 SETA K'&KWDLT(12)-1 LEN OF K/W -1 07JB60
&KWD12 SETC '&KWDLT(12)' VALUE OF K/W 07JB60
                AIF (&CTKWD LT 13).KWDLT_X 07JB60
&KWDL13 SETA K'&KWDLT(13)-1 LEN OF K/W -1 07JB60
&KWD13 SETC '&KWDLT(13)' VALUE OF K/W 07JB60
                AIF (&CTKWD LT 14).KWDLT_X 07JB60
&KWDL14 SETA K'&KWDLT(14)-1 LEN OF K/W -1 07JB60
&KWD14 SETC '&KWDLT(14)' VALUE OF K/W 07JB60
                AIF (&CTKWD LT 15).KWDLT_X 07JB60
&KWDL15 SETA K'&KWDLT(15)-1 LEN OF K/W -1 07JB60
&KWD15 SETC '&KWDLT(15)' VALUE OF K/W 07JB60
                AIF (&CTKWD LT 16).KWDLT_X 07JB60

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&KWDL16 SETA K'&KWDLT(16)-1          LEN OF K/W -1          07JB60
&KWD16 SETC '&KWDLT(16)'            VALUE OF K/W          07JB60
      AIF (&CTKWD LT 17).KWDLT_X    07JB60
&KWDL17 SETA K'&KWDLT(17)-1          LEN OF K/W -1          07JB60
&KWD17 SETC '&KWDLT(17)'            VALUE OF K/W          07JB60
      AIF (&CTKWD LT 18).KWDLT_X    07JB60
&KWDL18 SETA K'&KWDLT(18)-1          LEN OF K/W -1          07JB60
&KWD18 SETC '&KWDLT(18)'            VALUE OF K/W          07JB60
      AIF (&CTKWD LT 19).KWDLT_X    07JB60
&KWDL19 SETA K'&KWDLT(19)-1          LEN OF K/W -1          07JB60
&KWD19 SETC '&KWDLT(19)'            VALUE OF K/W          07JB60
      AIF (&CTKWD LT 20).KWDLT_X    07JB60
&KWDL20 SETA K'&KWDLT(20)-1          LEN OF K/W -1          07JB60
&KWD20 SETC '&KWDLT(20)'            VALUE OF K/W          07JB60
.KWDLT_X ANOP                          07JM60
.*****JM64
.*
.* &LE                                  A/A                          4JM80
.*
.*****JM64
      AIF ('&LE' EQ '').LE S          JB60
      AIF ('&LE' EQ 'N').LE X         JM60
      AIF ('&LE' EQ 'Y').LE S          JM60
      MNOTE 8,'PARAMETER LE OPTION - &LE - IS INVALID.' 4JM80
      MNOTE 8,' THE OPTION IS IGNORED.'
      AGO .LE_X                       CHECK NEXT PARAMETER      JM60
.LE S ANOP                              JM60
&C6(7) SETB 1                          SET UP LE ENVIRONMENT    4JM80
      AIF ('&COBENV' EQ '').LE X      JM60
      MNOTE 8,'PARAMETER COBENV IS INVALID WITH LE.' 4JM80
      MNOTE 8,' THE COBENV OPTION IS IGNORED.' 4JM80
&O1(3) SETB 0                          TURN OFF COBENV         4JM80
.LE_X ANOP                              JM60
.*****JM70
.*
.* &LIBRBUF                             II/A                          JM70
.*
.*****JM70
      AIF ('&LIBRBUF' EQ '').LIBRBUF_C JM60
      AIF ('&PRODUCT' NE '60').LIBRBUF_V JM60
      MNOTE 4,'PARAMETER LIBRBUF NOT AVAILABLE FOR &CPFX.&CNAM.. X
      THE OPTION IS IGNORED.'          JB60
&LBUF SETA 0                          SET DEFAULT VALUE=0 FOR VIS:SIXTY DM70
      AGO .LIBRBUF_X                  CHECK NEXT PARAMETER    JM60
.LIBRBUF_V ANOP                          JM60
      AIF ('&LIBRBUF' EQ '&LBUF').LIBRBUF_D DEFAULT REQUESTED JM60
      AIF ('&LIBRBUF' EQ 'N').LIBRBUF_A JM60
      MNOTE 8,'PARAMETER LIBRBUF VALUE IS INVALID - &LIBRBUF..' JM70
      MNOTE 8,' THE DEFAULT VALUE WILL BE USED.' JM70
      AGO .LIBRBUF_D                  SET DEFAULT VALUE      JM60
.LIBRBUF_A ANOP                          JM60
      AIF (&LIBRBUF LE 9999).LIBRBUF_H JM60
      MNOTE 8,'PARAMETER LIBRBUF IS GREATER THAN 9999.' JM70
      MNOTE 8,' 9999 WILL BE USED.' JM70
&LBUF SETA 9999*1024                   JM70
      AGO .LIBRBUF_X                  CHECK NEXT PARAMETER    JM60
.LIBRBUF_H ANOP                          JM60
      AIF (&LIBRBUF GE 60).LIBRBUF_B JM60
      MNOTE 8,'PARAMETER LIBRBUF IS LESS THAN 60.' DM70
      MNOTE 8,' 60 WILL BE USED.' JM70
      AGO .LIBRBUF_D                  SET DEFAULT VALUE      JM60
.LIBRBUF_C ANOP                          JM60
&LBUF SETA 0                          INDICATE LIBRBUF NOT CODED JM70
      AIF ('&PRODUCT' NE '60').LIBRBUF_D JM60
      AGO .LIBRBUF_X                  SKIP ASSIGN FOR SIXTY   JM60
.LIBRBUF_D ANOP                          JM60
&LBUF SETA &LBUF*1024                   SET DEFAULT VALUE      JM70
      AGO .LIBRBUF_X                  CHECK NEXT PARAMETER    JM60
.LIBRBUF_B ANOP                          JM60
&LBUF SETA &LIBRBUF*1024                 SET REQUESTED VALUE     JM70
.LIBRBUF_X ANOP                          JM60
.*****JM70
.*
.* &LIBSYS/&LIBDLBL                       II/M,D                      10DV80
.* REPLACEMENT SYS NUMBER FOR CA-LIBRARIAN 10DV80
.* REPLACEMENT DLBL FOR CA-LIBRARIAN      10DV80

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*****JM70
AIF ('&LIBSYS' EQ '') .LIBRVSE X NONE SPECIFIED JM60
AIF (&OSDOS21) .LIBSYS V CONTINUE JM60
MNOTE 8, 'PARAMETER LIBSYS NOT AVAILABLE FOR ENVIRONMENT &PRENV
V.' 10DV80
AGO .LIBRVSE_X CHECK NEXT PARAMETER JM60
.LIBSYS_V ANOP JM60
AIF (T'&LIBSYS EQ 'N') .LIBSYS N CONTINUE JM60
MNOTE 8, 'PARAMETER LIBSYS VALUE IS INVALID - &LIBSYS..' 10DV80
MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.' 10DV80
AGO .LIBRVSE_X CHECK NEXT JM60
.LIBSYS_N ANOP JM60
AIF (K'&LIBSYS LT 4) .LIBDLB V JM60
MNOTE 8, 'PARAMETER LIBSYS GREATER THAN 3 CHARACTERS.' 10DV80
MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .LIBRVSE_X CHECK NEXT PARAMETER JM60
.LIBDLB_V ANOP JM60
AIF ('&LIBDLBL' EQ '') .LIBSYS A NONE SPECIFIED JM60
AIF (K'&LIBDLBL LE 7) .LIBDLB A JM60
MNOTE 8, 'PARAMETER LIBDLBL GREATER THAN 7 CHARACTERS.' 10DV80
MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .LIBRVSE_X CHECK NEXT PARAMETER JM60
.LIBDLB_A ANOP JM60
&LIBNAM SETC '&LIBDLBL' ASSIGN DLBL NAME 10DV80
.LIBSYS_A ANOP JM60
&LIBSNU SETC '&LIBSYS' ASSIGN SYS NUMBER 10DV80
.LIBRVSE_X ANOP JM60
*****07RH60
*
* &LPPUNLMT A/O,M 07RH60
* 07JB60
* 07RH60
* SPECIFY A REPORT WITH UNLIMITED LINES PER PAGE. 07RH60
* 07RH60
* THIS WILL CAUSE TITLES AND HEADERS TO BE PRINTED 07RH60
* ON THE FIRST PAGE OF THE REPORT ONLY. 07RH60
* 07RH60
* DYLINSTL FUNTIONALITY ONLY - NO OPTION CARD SUPPORT 07RH60
* 07RH60
*****07RH60
AIF ('&LPPUNLMT' EQ '') .LPPUNLMT X 07RH60
AIF (&OSOS) .LPPUNLMT_C PARAMETER OK FOR MVS 07RH60
AIF (&OSDOS21) .LPPUNLMT_C PARAMETER OK FOR VSE 2.1 + 07RH60
MNOTE 8, 'PARAMETER LPPUNLMT NOT AVAILABLE FOR ENVIRONMENT &PREN
V.' 07RH60
MNOTE 8, ' THE OPTION IS IGNORED.' 07RH60
AGO .LPPUNLMT_X 07RH60
.LPPUNLMT_C ANOP 07RH60
AIF ('&LPPUNLMT' EQ 'Y') .LPPUNLMT_S 07RH60
AIF ('&LPPUNLMT' EQ 'N') .LPPUNLMT_X 07RH60
MNOTE 8, 'PARAMETER LPPUNLMT - &LPPUNLMT - IS INVALID.' 07RH60
MNOTE 8, ' THE OPTION IS IGNORED.' 07RH60
AGO .LPPUNLMT_X GO CHECK NEXT PARAMETER 07RH60
.LPPUNLMT_S ANOP 07RH60
&CF9(8) SETB 1 SET UNLIMITED LINES PER PAGE REPORT 07RH60
.LPPUNLMT_X ANOP 07RH60
*****JM70
*
* &LSTSTMX II/A
*
*****JM70
AIF ('&LSTSTMX' EQ '') .LSTSTMX X JM60
AIF ('&LSTSTMX' EQ 'N') .LSTSTMX_X JM60
AIF (('&PRODUCT' EQ 'II') OR ('&PRODUCT' EQ '80')) .LSTSTMX_V X
MNOTE 4, 'PARAMETER LSTSTMX NOT AVAILABLE FOR &CPFX.&CNAM..' X
THE OPTION IS IGNORED.' JB60
AGO .LSTSTMX_X CHECK NEXT PARAMETER JM60
.LSTSTMX_V ANOP
AIF ('&LSTSTMX' EQ 'Y') .LSTSTMX_A JM60
MNOTE 8, 'PARAMETER LSTSTMX OPTION - &LSTSTMX - IS INVALID.'
MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .LSTSTMX_X CHECK NEXT PARAMETER JM60
.LSTSTMX_A ANOP
&C8(1) SETB 1 LIST STATEMENT MAXIMUM FIELD COUNT
.LSTSTMX_X ANOP JM60
*****JM70
*

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.* &LTRFROM                II/A
.*
.******JM70
    AIF ('&LTRFROM' EQ '') .LTRFROM X           JM60
    AIF ('&LTRFROM' EQ 'N') .LTRFROM X          JM60
    AIF ('&PRODUCT' EQ 'II') .LTRFROM V        JM60
    MNOTE 4, 'PARAMETER LTRFROM NOT AVAILALBE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'
    AGO .LTRFROM_X CHECK NEXT PARAMETER        JM60
.LTRFROM_V ANOP
    AIF ('&LTRFROM' EQ 'Y') .LTRFROM A          JM60
    MNOTE 8, 'PARAMETER LTRFROM OPTION - &LTRFROM - IS INVALID.'
    MNOTE 8, ' THE OPTION IS IGNORED.'
    AGO .LTRFROM_X CHECK NEXT PARAMETER        JM60
.LTRFROM_A ANOP
&CI(3) SETB 1 LETTER WRITER DISALLOW FROM RANGE
.LTRFROM_X ANOP
.******JM70
.*
.* &LTRZERO                II/A
.*
.******JM70
    AIF ('&LTRZERO' EQ '') .LTRZERO X           JM60
    AIF ('&LTRZERO' EQ 'N') .LTRZERO X          JM60
    AIF ('&PRODUCT' EQ 'II') .LTRZERO V        JM60
    MNOTE 4, 'PARAMETER LTRZERO NOT AVAILALBE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'
    AGO .LTRZERO_X CHECK NEXT PARAMETER        JM60
.LTRZERO_V ANOP
    AIF ('&LTRZERO' EQ 'Y') .LTRZERO A          JM60
    MNOTE 8, 'PARAMETER LTRZERO OPTION - &LTRZERO - IS INVALID.'
    MNOTE 8, ' THE OPTION IS IGNORED.'
    AGO .LTRZERO_X CHECK NEXT PARAMETER        JM60
.LTRZERO_A ANOP
&CI(1) SETB 1 LETTER WRITER PRINTS ZERO, CODES A, B
.LTRZERO_X ANOP
.******JM70
.*
.* &MACHCOR                II/D,M
.*
.******JM70
    AIF ('&MACHCOR' EQ '') .MACHCOR_X           JM60
    AIF (&OSDOS21) .MACHCOR K                   JM60
    AIF (&OSDOS) .MACHCOR K                     JM60
    MNOTE 8, 'PARAMETER MACHCOR NOT AVAILABLE FOR ENVIRONMENT &PRENV
    V..' 10DV80
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_K ANOP
    AIF ('&PRODUCT' EQ 'II') .MACHCOR V          JM60
    MNOTE 4, 'PARAMETER MACHCOR NOT AVAILALBE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
&DOSMACH SETC '00' INDICATE OPTION NOT USED
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_V ANOP
    AIF (T'&MACHCOR EQ 'N') .MACHCOR B          JM60
    MNOTE 8, 'PARAMETER MACHCOR VALUE IS INVALID - &MACHCOR.'
    MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.'
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_B ANOP
    AIF (&MACHCOR LE 99) .MACHCOR A             JM60
    MNOTE 8, 'PARAMETER MACHCOR VALUE - &MACHCOR - EXCEEDS 99.'
    MNOTE 8, ' A VALUE OF 99 WILL BE USED.'
&DOSMACH SETC '99' REASSIGN MATCH ROUTINE SIZE
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_A ANOP
&DMACHTA SETA &MACHCOR CONVERT TO ARITHMETIC
&DMACHTC SETC '&DMACHTA' BACK TO CHAR WITH NO LEADING ZEROS
    AIF (&MACHCOR GE 4) .MACHCOR O             JM60
    MNOTE 8, 'PARAMETER MACHCOR VALUE -&MACHCOR - IS LESS THAN 4.'
    MNOTE 8, ' THE DEFAULT VALUE OF 4 WILL BE USED.'
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_O ANOP
    AIF (&MACHCOR GT 9) .MACHCOR C             JM60
&DOSMACH SETC '0&DMACHTC' SET MATCH ROUTINE SIZE
    AGO .MACHCOR_X CHECK NEXT PARAMETER        JM60
.MACHCOR_C ANOP

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&DOSMACH SETC '&DMACHTC'          SET MATCH ROUTINE SIZE
.MACHCOR X ANOP                      JM60
*****JM70
.*
.* &MACHORG                          II/A
.*
*****JM70
    AIF ('&MACHORG' EQ '').MACHORG X
    AIF ('&PRODUCT' EQ 'II').MACHORG V          JM60
    MNOTE 4,'PARAMETER MACHORG NOT AVAILABLE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'
    AGO .MACHORG_X          CHECK NEXT PARAMETER          JM60
.MACHORG V ANOP                      JM60
    AIF ('&MACHORG' EQ 'Y').MACHORG A          JM60
    AIF ('&MACHORG' EQ 'N').MACHORG X
    MNOTE 8,'PARAMETER MACHORG OPTION - &MACHORG - IS INVALID.'
    MNOTE 8,' THE OPTION IS IGNORED.'
    AGO .MACHORG_X          CHECK NEXT PARAMETER          M670
.MACHORG A ANOP                      JM60
&CI(2) SETB 1          MATCH PROCESSING "SETREAD ORIGINAL"
.MACHORG X ANOP                      JM60
*****JM70
.*
.* &MAXDNLN                          II/A
.*
*****JM70
    AIF ('&MAXDNLN' EQ '').MAXDNLN X          JM60
    AIF ('&PRODUCT' NE '60').MAXDNLN V          JM60
    MNOTE 4,'PARAMETER MAXDNLN NOT AVAILABLE FOR &CPFX.SIXTY. X
    THE OPTION IS IGNORED.'
    AGO .MAXDNLN_X          CHECK NEXT PARAMETER          JB60
    JM60
.MAXDNLN V ANOP                      JM60
    AIF ('&MAXDNLN' EQ '50').MAXDNLN X          JM60
    AIF (T'&MAXDNLN NE 'N').MAXDNLN D          JM60
    AIF ((&MAXDNLN GE 10) AND (&MAXDNLN LE 50)).MAXDNLN_A JM60
.MAXDNLN D ANOP
&MAXDN SETC '50'          REASSIGN DEFAULT VALUE
    MNOTE 8,'PARAMETER MAXDNLN SPECIFIED AN INVALID VALUE - &MAXDNL
    LN -.'
    MNOTE 8,' THE DEFAULT VALUE - &MAXDN - WILL BE USED.'
    AGO .MAXDNLN_X          CHECK NEXT PARAMETER          JM60
.MAXDNLN A ANOP
&MAXDN SETC '&MAXDNLN'          MAXIMUM USER DATA NAME LENGTH
.MAXDNLN X ANOP                      JM60
*****JM70
.*
.* &MAXDYLF                          II/A          DM70
.*
*****JM70
    AIF ('&PRODUCT' NE '60').MAXDYLF R          JM60
&MAXDIOU SETC '0'          DYLIOU FILE COUNT DEFAULT          DM70
.MAXDYLF R ANOP                      JM60
    AIF ('&MAXDYLF' EQ '').MAXDYLF_X          JM60
    AIF ('&PRODUCT' NE '60').MAXDYLF V          JM60
    MNOTE 4,'PARAMETER MAXDYLF IS NOT AVAILABLE FOR &CPFX.SIXTY. X
    THE OPTION IS IGNORED.'
    AGO .MAXDYLF_X          JM60
    JM60
.MAXDYLF V ANOP                      JM60
    AIF (T'&MAXDYLF EQ 'N').MAXDYLF T          JM60
    MNOTE 8,'PARAMETER MAXDYLF VALUE IS INVALID - &MAXDYLF.'
    MNOTE 8,' IT IS IGNORED. THE DEFAULT - 175 - WILL BE USED.'
&MAXDIOU SETC '175'          ASSIGN MINIMUM VALUE
    AGO .MAXDYLF_X          JM60
.MAXDYLF T ANOP                      JM60
    AIF (&MAXDYLF LT 4096).MAXDYLF U          JM60
    MNOTE 8,'MAXDYLF VALUE SPECIFIED - &MAXDYLF - EXCEEDS 4095.'
    MNOTE 8,' 4095 WILL BE USED.'
&MAXDIOU SETC '4095'          ASSIGN MAXIMUM VALUE
    AGO .MAXDYLF_X          JM60
.MAXDYLF U ANOP                      JM60
    AIF (&MAXDYLF GE 175).MAXDYLF S          JM60
    MNOTE 8,'MAXDYLF VALUE SPECIFIED - &MAXDYLF - IS LESS THAN 175.
    '
    MNOTE 8,' 175 WILL BE USED.'
&MAXDIOU SETC '175'          ASSIGN MINIMUM VALUE

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        AGO .MAXDYLF_X JM60
.MAXDYLF_S ANOP JM60
&MAXDIUO SETC '&MAXDYLF' DYLIUO FILE COUNT
.MAXDYLF_X ANOP JM60
*****JM70
.*
.* &MNAMEU II/A
.*
*****JM70
        AIF ('&MNAMEU' EQ '') .MNAMEU_X JM60
        AIF ('&MNAMEU' EQ 'N') .MNAMEU_X JM60
        AIF ('&PRODUCT' NE '60') .MNAMEU_V JM60
        MNOTE 4, 'PARAMETER MNAMEU NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.' JB60
        AGO .MNAMEU_X CHECK NEXT PARAMETER JM60
.MNAMEU_V ANOP JM60
        AIF ('&MNAMEU' EQ 'Y') .MNAMEU_A JM60
        MNOTE 8, 'PARAMETER MNAMEU OPTION - &MNAMEU - IS INVALID.'
        MNOTE 8, ' THE OPTION IS IGNORED.'
        AGO .MNAMEU_X CHECK NEXT PARAMETER JM60
.MNAMEU_A ANOP JM60
&C1(6) SETB 1 MODULE NAME MAY BEGIN NUMERIC
.MNAMEU_X ANOP JM60
*****JM64
.*
.* &MRWRK6 60/A JM60
.* VISION:SIXTY MULTIPLE REPORT WORKFILE NAME JM64
*****JM64
        AIF ('&MRWRK6' EQ '') .MRWRK6_X JM60
        AIF (K'&MRWRK6 LE 8) .MRWRK6_A JM60
        MNOTE 8, 'PARAMETER MRWRK6 OPTION - &MRWRK6 - IS MORE THAN 8 CHA
                RACTERS LONG.' JM64
        MNOTE 8, ' THE DEFAULT WILL BE USED.' JM60
        AGO .MRWRK6_X CHECK NEXT PARAMETER JM60
.MRWRK6_A ANOP JM60
&CF9(5) SETB 1 INDICATE USER VISION:SIXTY WORKFILE NAME JM60
&MRWK60 SETC '&MRWRK6' SET USER NAME JM64
.MRWRK6_X ANOP JM60
*****JM64
.*
.* &NAMEHDR A/A
.*
*****JM64
        AIF ('&NAMEHDR' EQ '') .NAMEHDR_X JM60
&CTKN SETA K'&NAMEHDR-2 ADJUST FOR MNOTE, SETC
        AIF (K'&NAMEHDR LE 62) .NAMEHDR_A 62 COUNTS APOSTRPHJE JM60
        MNOTE 8, 'NAMEHDR LENGTH - &CTKN - EXCEEDS MAXIMUM (60).'
        MNOTE 8, ' THE VALUE WILL BE TRUNCATED TO 60 BYTES.'
.NAMEHDR_A ANOP JM60
&C1(8) SETB 1 SET PRESENCE OF BANNER LINE
&BANNER SETC '&NAMEHDR'(2, &CTKN) SET BANNER LINE HEADER AG70
.NAMEHDR_X ANOP JM60
*****10JM60
.*
.* &NDVRENV II/O 10JM60
.*
*****10JM60
        AIF ('&NDVRENV' EQ '') .NDVRENV_X 10JM60
        AIF (&OSOS) .NDVRENV_E MSG IF NOT MVS 10JM60
        MNOTE 8, 'PARAMETER NDVRENV NOT AVAILABLE FOR ENVIRONMENT &PREN.
                V..' 10JM60
        MNOTE 8, ' THE OPTION IS IGNORED.' 10JM60
        AGO .NDVRENV_X CHECK NEXT PARAMETER 10JM60
.NDVRENV_E ANOP 10JM60
        AIF ('&PRODUCT' NE '60') .NDVRENV_V 10JM60
        MNOTE 4, 'PARAMETER NDVRENV NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.' JB60
        AGO .NDVRENV_X CHECK NEXT PARAMETER 10JM60
.NDVRENV_V ANOP 10JM60
        AIF (K'&NDVRENV LE 8) .NDVRENV_A MAX LEN OF 8 10JM60
        MNOTE 8, 'PARAMETER NDVRENV GREATER THAN 8 CHARACTERS.' 10JM60
        MNOTE 8, ' THE PARAMETER IS IGNORED.' 10JM60
        AGO .NDVRENV_X 10JM60
.NDVRENV_A ANOP 10JM60
&NDVRON SETC '&NDVRENV' 10JM60
&OI(2) SETB 1 ENDEVOR ENVIRONMENT SUPPLIED 10JM60

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.NDVRENV_X ANOP                                     10JM60
.*****10JM60
.*
.* &NDVRCOM                                         II/O
.*
.******10JM60
      AIF ('&NDVRCOM' EQ '').NDVRCOM_X             10JM60
      AIF (&OSOS).NDVRCOM E                       MSG IF NOT MVS 10JM60
      MNOTE 8,'PARAMETER NDVRCOM NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V..'                                         10JM60
      MNOTE 8,' THE OPTION IS IGNORED.'           10JM60
      AGO .NDVRCOM_X CHECK NEXT PARAMETER         10JM60
.NDVRCOM_E ANOP                                     10JM60
      AIF ('&PRODUCT' NE '60').NDVRCOM V          10JM60
      MNOTE 4,'PARAMETER NDVRCOM NOT AVAILABLE FOR &CPFX.SIXTY. X
      THE OPTION IS IGNORED.'                     JB60
      AGO .NDVRCOM_X CHECK NEXT PARAMETER         10JM60
.NDVRCOM_V ANOP                                     10JM60
      AIF ('&NDVRCOM' EQ 'N').NDVRCOM_X KEEP BIT OFF 10JM60
      AIF ('&NDVRCOM' EQ 'Y').NDVRCOM_A SET FEATURE ON 10JM60
      MNOTE 4,'PARAMETER NDVRCOM - &NDVRCOM - IS INVALID. X
      THE PARAMETER IS IGNORED.'                 JB60
      AGO .NDVRCOM_X                               10JM60
.NDVRCOM_A ANOP                                     10JM60
&OI(6) SETB 1 RETURN ENDEVOR ATTRIBUTES AS COMMENTS 10JM60
.NDVRCOM_X ANOP                                     10JM60
.*****JM64
.*
.* &NODLETE                                         II/O
.*
.******JM64
      AIF ('&NODLETE' EQ '').NODLETE_X             JM60
      AIF (&OSOS).NODLETE E                       MSG IF NOT MVS JM60
      MNOTE 8,'PARAMETER NODLETE NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V..'                                         DM70
      MNOTE 8,' THE OPTION IS IGNORED.'           JM60
      AGO .NODLETE_X CHECK NEXT PARAMETER         JM60
.NODLETE_E ANOP                                     JM60
      AIF ('&PRODUCT' NE '60').NODLETE V          JM60
      MNOTE 4,'PARAMETER NODLETE NOT AVAILABLE FOR &CPFX.SIXTY. X
      THE OPTION IS IGNORED.'                     JB60
      AGO .NODLETE_X CHECK NEXT PARAMETER         JM60
.NODLETE_V ANOP                                     JM60
      AIF ('&NODLETE' EQ 'Y').NODLETE_A           JM60
      AIF ('&NODLETE' EQ 'N').NODLETE_X           JM60
      MNOTE 8,'PARAMETER NODLETE VALUE - &NODLETE - IS INVALID.'
      MNOTE 8,' THE OPTION IS IGNORED.'           JM60
      AGO .NODLETE_X CHECK NEXT PARAMETER         JM60
.NODLETE_A ANOP                                     JM60
&O(3) SETB 1 SET NO DELETE OPTION
.NODLETE_X ANOP                                     JM60
.*****JM64
.*
.* &NOPOWRT                                         II/O
.*
.******JM64
      AIF ('&NOPOWRT' EQ '').NOPOWRT_X            JM60
      AIF (&OSOS).NOPOWRT E                       MSG IF NOT MVS JM60
      MNOTE 8,'PARAMETER NOPOWRT NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V..'                                         DM70
      MNOTE 8,' THE OPTION IS IGNORED.'           JM60
      AGO .NOPOWRT_X CHECK NEXT PARAMETER         JM60
.NOPOWRT_E ANOP                                     JM60
      AIF ('&PRODUCT' NE '60').NOPOWRT V          JM60
      MNOTE 4,'PARAMETER NOPOWRT NOT AVAILABLE FOR &CPFX.SIXTY. X
      THE OPTION IS IGNORED.'                     JB60
      AGO .NOPOWRT_X CHECK NEXT PARAMETER         JM60
.NOPOWRT_V ANOP                                     JM60
      AIF ('&NOPOWRT' EQ 'Y').NOPOWRT_A           JM60
      AIF ('&NOPOWRT' EQ 'N').NOPOWRT_X           JM60
      MNOTE 8,'PARAMETER NOPOWRT VALUE - &NOPOWRT - IS INVALID.'
      MNOTE 8,' THE OPTION IS IGNORED.'           JM60
      AGO .NOPOWRT_X CHECK NEXT PARAMETER         JM60
.NOPOWRT_A ANOP                                     JM60
&O(4) SETB 1 SET NO PDS WRITE OPTION
.NOPOWRT_X ANOP                                     JM60

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*****JM70
.*
.*  &NOSRTAB                A/O
.*
.*                               JM70
*****JM70
      AIF  ('&NOSRTAB' EQ '') .NOSRTAB_X      JM60
      AIF  (&OSOS) .NOSRTAB E                MSG IF NOT MVS  JM60
      MNOTE 8, 'PARAMETER NOSRTAB NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V..'
      MNOTE 8, '      THE OPTION IS IGNORED.'
      AGO  .NOSRTAB_X                CHECK NEXT PARAMETER      JM60
.NOSRTAB E ANOP
      AIF  ('&NOSRTAB' EQ 'Y') .NOSRTAB A      JM60
      AIF  ('&NOSRTAB' EQ 'N') .NOSRTAB_X      JM60
      MNOTE 8, 'PARAMETER NOSRTAB VALUE - &NOSRTAB - IS INVALID.'
      MNOTE 8, '      THE OPTION IS IGNORED.'
      AGO  .NOSRTAB_X                CHECK NEXT PARAMETER      JM60
.NOSRTAB A ANOP
&O1(1)  SETB 1                SET RC=8 FOR PREMATURE SORT TERM  JM70
.NOSRTAB X ANOP
*****JM64
.*
.*  &NOTOTAL                II/A
.*
*****JM64
      AIF  ('&NOTOTAL' EQ '') .NOTOTAL_X      JM60
      AIF  ('&PRODUCT' NE '60') .NOTOTAL V      JM60
      MNOTE 4, 'PARAMETER NOTOTAL NOT AVAILABLE FOR &CPFX.SIXTY.
      X
      THE OPTION IS IGNORED.'
      AGO  .NOTOTAL_X                CHECK NEXT PARAMETER      JM60
.NOTOTAL V ANOP
      AIF  ('&NOTOTAL' EQ 'Y') .NOTOTAL A      JM60
      AIF  ('&NOTOTAL' EQ 'N') .NOTOTAL_X      JM60
      MNOTE 8, 'PARAMETER NOTOTAL OPTION - &NOTOTAL - IS INVALID.'
      MNOTE 8, '      THE OPTION IS IGNORED.'
      AGO  .NOTOTAL_X                CHECK NEXT PARAMETER      JM60
.NOTOTAL A ANOP
&C5(5)  SETB 1                DON'T PRINT CONTROL TOTALS      JM70
.NOTOTAL X ANOP
*****JM64
.*
.*  &NOVSIO                 II/A
.*
*****JM64
      AIF  ('&NOVSIO' EQ '') .NOVSIO_X      JM60
      AIF  ('&PRODUCT' NE '60') .NOVSIO V      JM60
      MNOTE 4, 'PARAMETER NOVSIO NOT AVAILABLE FOR &CPFX.SIXTY.
      X
      THE OPTION IS IGNORED.'
      AGO  .NOVSIO_X                CHECK NEXT PARAMETER      JM60
.NOVSI0 V ANOP
      AIF  ('&NOVSIO' EQ 'Y') .NOVSIO A      JM60
      AIF  ('&NOVSIO' EQ 'N') .NOVSIO_X      JM60
      MNOTE 8, 'PARAMETER NOVSIO OPTION - &NOVSIO - IS INVALID.'
      MNOTE 8, '      THE OPTION IS IGNORED.'
      AGO  .NOVSIO_X                CHECK NEXT PARAMETER      JM60
.NOVSI0 A ANOP
&C3(1)  SETB 1                NO VSAM UPDATE
.NOVSI0 X ANOP
*****JM64
.*
.*  &NOVSOIO                II/A
.*
*****JM64
      AIF  ('&NOVSOIO' EQ '') .NOVSOIO_X     AG70
      AIF  ('&PRODUCT' NE '60') .NOVSOIO V     AG70
      MNOTE 4, 'PARAMETER NOVSOIO NOT AVAILABLE FOR &CPFX.SIXTY.
      X
      THE OPTION IS IGNORED.'
      AGO  .NOVSOIO_X                CHECK NEXT PARAMETER      AG70
.NOVSOIO V ANOP
      AIF  ('&NOVSOIO' EQ 'Y') .NOVSOIO A     AG70
      AIF  ('&NOVSOIO' EQ 'N') .NOVSOIO_X     AG70
      MNOTE 8, 'PARAMETER NOVSOIO OPTION - &NOVSOIO - IS INVALID.'
      MNOTE 8, '      THE OPTION IS IGNORED.'
      AGO  .NOVSOIO_X                CHECK NEXT PARAMETER      AG70
.NOVSOIO A ANOP
&C3(2)  SETB 1                NO VSAM OUTPUT/UPDATE

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```

.NOVSOIO X ANOP                                     AG70
*****JM64
.*
.* &NUMCHAR                                         A/A                                     3023
.*
*****JM64
    AIF ('&NUMCHAR' EQ '') .NUMCHAR_X             AG70
    AIF ('&NUMCHAR' EQ 'Y') .NUMCHAR_A            AG70
    AIF ('&NUMCHAR' EQ 'N') .NUMCHAR_X           AG70
    MNOTE 8, 'PARAMETER NUMCHAR OPTION - &NUMCHAR - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .NUMCHAR_X                                CHECK NEXT PARAMETER             AG70
.NUMCHAR_A ANOP                                     AG70
&C2(4) SETB 1                                     ZONED DECIMAL FOR "IF NUMERIC" CHECK
.NUMCHAR_X ANOP                                     AG70
*****JM64
.*
.* &NUMPD                                           A/A                                     8DV80
.*
*****JM64
    AIF ('&NUMPD' EQ '') .NUMPD_X                8DV80
    AIF ('&NUMPD' EQ 'Y') .NUMPD_A              8DV80
    AIF ('&NUMPD' EQ 'N') .NUMPD_X             8DV80
    MNOTE 8, 'PARAMETER NUMCHAR OPTION - &NUMPD - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .NUMPD_X                                CHECK NEXT PARAMETER             8DV80
.NUMPD_A ANOP                                     8DV80
&C7(4) SETB 1                                     PACKED DECIMAL FOR "IF NUMERIC" CHECK
.NUMPD_X ANOP                                     8DV80
*****3023
.*
.* &OPTLIST                                         A/A                                     3023
.* PRINT/SUPPRESS LIST OF DEFAULT OPTIONS, CPUID, ETC. 3023
*****3023
    AIF ('&OPTLIST' EQ '') .OPTLIST_X           AG70
    AIF ('&OPTLIST' EQ 'N') .OPTLIST_A          AG70
    AIF ('&OPTLIST' EQ 'Y') .OPTLIST_D         JM60
    MNOTE 8, 'PARAMETER OPTLIST OPTION - &OPTLIST - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .OPTLIST_X                                CHECK NEXT PARAMETER             3023
.OPTLIST_D ANOP                                     AG70
&C4(1) SETB 1                                     PRINT OPTIONS ACTIVE PAGE       JM60
    AGO .OPTLIST_X                                CHECK NEXT PARAMETER             AG70
.OPTLIST_A ANOP                                     AG70
&C4(1) SETB 0                                     SUPPRESS OPTIONS ACTIVE PAGE    3023
.OPTLIST_X ANOP                                     3023
*****3023
.*
.* &OPTPRDG                                         II/A
.*
*****3023
    AIF ('&OPTPRDG' EQ '') .OPTPRDG_X          AG70
    AIF (('&PRODUCT' EQ 'II') OR
        ('&PRODUCT' EQ '80')) .OPTPRDG_V       JM60
    MNOTE 4, 'PARAMETER OPTPRDG NOT AVAILABLE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'
    AGO .OPTPRDG_X                                CHECK NEXT PARAMETER             AG70
.OPTPRDG_V ANOP                                     AG70
    AIF ('&OPTPRDG' EQ 'N') .OPTPRDG_A         AG70
    AIF ('&OPTPRDG' EQ 'Y') .OPTPRDG_D         JM60
    MNOTE 8, 'PARAMETER OPTPRDG OPTION - &OPTPRDG - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .OPTPRDG_X                                CHECK NEXT PARAMETER             AG70
.OPTPRDG_D ANOP                                     AG70
&C8(2) SETB 0                                     OPTION PRINTDIGIT               JM60
    AGO .OPTPRDG_X                                CHECK NEXT PARAMETER             AG70
.OPTPRDG_A ANOP                                     AG70
&C8(2) SETB 1                                     OPTION NOPRINTDIGIT             AG70
.OPTPRDG_X ANOP                                     AG70
*****
.*
.* &OPTPRER                                         II/A
.*
*****
    AIF ('&OPTPRER' EQ '') .OPTPRER_X          AG70
    AIF ('&PRODUCT' NE '60') .OPTPRER_V        AG70

```

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MNOTE 4,'PARAMETER OPTPRER NOT AVAILABLE FOR &CPFX.SIXTY.      X
                                THE OPTION IS IGNORED.'          JB60
AGO .OPTPRER_X              CHECK NEXT PARAMETER                AG70
.OPTPRER_V ANOP
  AIF ('&OPTPRER' EQ 'Y').OPTPRER_A                            AG70
  AIF ('&OPTPRER' EQ 'N').OPTPRER_D                            JM60
MNOTE 8,'PARAMETER OPTPRER OPTION - &OPTPRER - IS INVALID.'
MNOTE 8,'      THE OPTION IS IGNORED.'
AGO .OPTPRER_X              CHECK NEXT PARAMETER                AG70
.OPTPRER_D ANOP
&C2(5) SETB 0              OPTION NOPRINTERR                    JM60
AGO .OPTPRER_X              CHECK NEXT PARAMETER                AG70
.OPTPRER_A ANOP
&C2(5) SETB 1              OPTION PRINTERR/PRINTERROR          AG70
.OPTPRER_X ANOP
*****
.*
.* &OUTFILE                  II/A
.*
*****
  AIF ('&OUTFILE' EQ '').OUTFILE_X                            AG70
  AIF ('&PRODUCT' NE '60').OUTFILE_V                          AG70
MNOTE 4,'PARAMETER OUTFILE NOT AVAILABLE FOR &CPFX.SIXTY.      X
                                THE OPTION IS IGNORED.'          JB60
AGO .OUTFILE_X              CHECK NEXT PARAMETER                AG70
.OUTFILE_V ANOP
  AIF ('&OUTFILE' EQ 'Y').OUTFILE_A                            AG70
  AIF ('&OUTFILE' EQ 'N').OUTFILE_D                            JM60
MNOTE 8,'PARAMETER OUTFILE OPTION - &OUTFILE - IS INVALID.'
MNOTE 8,'      THE OPTION IS IGNORED.'
AGO .OUTFILE_X              CHECK NEXT PARAMETER                AG70
.OUTFILE_D ANOP
&C3(3) SETB 0              SET NULL OUTPUT FILE OPTION OFF    JM60
AGO .OUTFILE_X              CHECK NEXT PARAMETER                AG70
.OUTFILE_A ANOP
&C3(3) SETB 1              SET NULL OUTPUT FILE OPTION          AG70
.OUTFILE_X ANOP
*****
.*
.* &PANSYS/&PANDEV            II/M,D                            10DV80
.* REPLACEMENT SYS NUMBER / DLBL FOR CA-PANVALET              10DV80
*****
  AIF ('&PANSYS' EQ '').PANVSE_B NONE SPECIFIED              10DV80
  AIF (&OSDOS21).PANVSE_V CONTINUE                            10DV80
MNOTE 8,'PARAMETER PANSYS NOT AVAILABLE FOR ENVIRONMENT &PRENV.
..
AGO .PANVSE_X              CHECK NEXT PARAMETER                10DV80
.PANVSE_V ANOP
  AIF (T'&PANSYS EQ 'N').PANVSE_A CONTINUE                    10DV80
MNOTE 8,'PARAMETER PANSYS VALUE IS INVALID - &PANSYS..'    10DV80
MNOTE 8,'      THE DEFAULT VALUE WILL BE USED.'              10DV80
AGO .PANVSE_X              CHECK NEXT                           10DV80
.PANVSE_A ANOP
  AIF (K'&PANSYS LT 4).PANVSE_B                               10DV80
MNOTE 8,'PARAMETER PANSYS GREATER THAN 3 CHARACTERS.'      10DV80
MNOTE 8,'      THE OPTION IS IGNORED.'
AGO .PANVSE_X              CHECK NEXT PARAMETER                10DV80
.PANVSE_B ANOP
  AIF ('&PANDEV' EQ '').PANVSE_X NONE SPECIFIED              10DV80
  AIF (&OSDOS21).PANVSE_C CONTINUE                            10DV80
MNOTE 8,'PARAMETER PANDEV NOT AVAILABLE FOR ENVIRONMENT &PRENV.
..
AGO .PANVSE_X              CHECK NEXT PARAMETER                10DV80
.PANVSE_C ANOP
  AIF (K'&PANDEV LE 4).PANVSE_D                               JM60
MNOTE 8,'PARAMETER PANDEV GREATER THAN 4 CHARACTERS.'      10DV80
MNOTE 8,'      THE OPTION IS IGNORED.'
AGO .PANVSE_X              CHECK NEXT PARAMETER                10DV80
.PANVSE_D ANOP
  AIF (('&PANDEV' EQ '3330') OR ('&PANDEV' EQ '3331')
OR ('&PANDEV' EQ '3340') OR ('&PANDEV' EQ '3350') OR
('&PANDEV' EQ 'CKD ') OR ('&PANDEV' EQ 'FBA ')).PANTYP_A
MNOTE 8,'PARAMETER PANDEV &PANDEV IS INVALID.'              07JM60
MNOTE 8,'      THE OPTION IS IGNORED.'                        07JM60
AGO .PANVSE_X              CHECK NEXT PARAMETER                10DV80
.PANTYP_A ANOP
10DV80

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&PANTYP SETC '&PANDEV'          ASSIGN DEVICE TYPE          10DV80
.PANVSE S ANOP                    10DV80
&PANSNU SETC '&PANSYS'          ASSIGN SYS NUMBER          10DV80
.PANVSE X ANOP                    10DV80
*****JM70
.*
.* &PANVBUF                        II/A                          JM70
.*
*****JM70
    AIF ('&PANVBUF' EQ '') .PANVBUF_C          DM70
    AIF ('&PRODUCT' NE '60') .CPANVBUF_V      JM70
    MNOTE 4, 'PARAMETER PANVBUF NOT AVAILABLE FOR &CPFX.&CNAM.. X
    THE OPTION IS IGNORED.'                    JB60
&PBUF SETA 0                        DM70
    AGO .PANVBUF_X                          CHECK NEXT PARAMETER    JM70
.CPANVBUF V ANOP                    JM70
    AIF ('&PANVBUF' EQ '&PBUF') .PANVBUF_D     DEFAULT REQUESTED     JM70
    AIF (T'&PANVBUF EQ 'N') .CPANVBUF_B      JM70
    MNOTE 8, 'PARAMETER PANVBUF VALUE IS INVALID - &PANVBUF..' JM70
    MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.' JM70
    AGO .PANVBUF_D                          SET DEFAULT VALUE     DM70
.CPANVBUF B ANOP                    JM70
    AIF (&PANVBUF LE 9999) .PANVBUF_S        JM70
    MNOTE 8, 'PARAMETER PANVBUF IS GREATER THAN 9999.' JM70
    MNOTE 8, ' 9999 WILL BE USED.'           JM70
&PBUF SETA 9999*1024                JM70
    AGO .PANVBUF_X                          CHECK NEXT PARAMETER    JM70
.PANVBUF S ANOP                    JM70
    AIF (&PANVBUF GE 60) .PANVBUF_T         JM70
    MNOTE 8, 'PARAMETER PANVBUF IS LESS THAN 60.' DM70
    MNOTE 8, ' 60 WILL BE USED.'           JM70
    AGO .PANVBUF_D                          SET DEFAULT VALUE     DM70
.PANVBUF C ANOP                    DM70
&PBUF SETA 0                        INDICATE PANVBUF NOT CODED JM70
    AIF ('&PRODUCT' NE '60') .PANVBUF_D     DM70
    AGO .PANVBUF_X                          SKIP ASSIGN FOR SIXTY  JM70
.PANVBUF D ANOP                    JM70
&PBUF SETA &PBUF*1024              SET DEFAULT VALUE     JM70
    AGO .PANVBUF_X                          CHECK NEXT PARAMETER    JM70
.PANVBUF T ANOP                    JM70
&PBUF SETA &PANVBUF*1024          SET REQUESTED VALUE   JM70
.PANVBUF X ANOP                    JM70
*****JM70
.*
.* &PDSREPL                        II/O                          JM70
.*
*****JM70
    AIF ('&PDSREPL' EQ '') .PDSREPL_X       DM70
    AIF (&OSOS) .PDSREPL_Z              MSG IF NOT ZOS        JM60
    MNOTE 8, 'PARAMETER PDSREPL NOT AVAILABLE FOR ENVIRONMENT &PRENV
    V..'                                     JM60
    AGO .PDSREPL_X                          CHECK NEXT PARAMETER    10DV80
.PDSREPL Z ANOP                    JM60
    AIF ('&PRODUCT' NE '60') .PDSREPL_V     JM70
    MNOTE 4, 'PARAMETER PDSREPL NOT AVAILABLE FOR &CPFX.SIXTY. X
    THE OPTION IS IGNORED.'                    JB60
    AGO .PDSREPL_X                          JM70
.PDSREPL V ANOP                    JM70
    AIF ('&PDSREPL' EQ 'Y') .PDSREPL_S     JM70
    AIF ('&PDSREPL' EQ 'N') .PDSREPL_D     JM60
    MNOTE 8, 'PARAMETER PDSREPL VALUE - &PDSREPL - IS INVALID.' JM70
    MNOTE 8, ' THE OPTION IS IGNORED.'     JM70
    AGO .PDSREPL_X                          CHECK NEXT PARAMETER    JM70
.PDSREPL D ANOP                    JM70
&O(8) SETB 0                        RETURN 'N' IF REPL CAUSES ADD JM60
    AGO .PDSREPL_X                          CHECK NEXT PARAMETER    JM70
.PDSREPL S ANOP                    JM70
&O(8) SETB 1                        RETURN 'A' IF REPL CAUSES ADD JM70
.PDSREPL X ANOP                    JM70
*****JM70
.*
.* &PGLINER                        A/A                          JM80
.*
*****JM70
    AIF ('&PGLINER' EQ '') .PGLINER_X     AG70
    AIF ('&PGLINER' EQ '55') .PGLINER_X   AG70

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        AIF (T'&PGLINER NE 'N').PGLINER_I AG70
        AIF (&PGLINER LE 99).PGLINER_A AG70
.PGLINER_I ANOP AG70
        MNOTE 8,'PARAMETER PGLINER SPECIFIED AN INVALID VALUE - &PGLINE
        ER -.'

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AIF (&CT EQ 2).CP24A5X AG70
AIF (('&PROGMOD(2)' EQ '&PMTB(3)') OR X
('&PROGMOD(2)' EQ '&PMTB(2)')) .CP24A6Z AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(3)') OR X
('&PROGMOD(1)' EQ '&PMTB(2)')) .CP24A7Z AG70
&PMS SETB 1 SET STRUCTURED OPTION
AGO .CP24B CHECK FIRST, SECOND PARAMETERS AG70
.CP24A5X ANOP AG70
AIF (('&PROGMOD(2)' EQ '&PMTB(3)') OR X
('&PROGMOD(2)' EQ '&PMTB(1)')) .CP24A6Z AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(3)') OR X
('&PROGMOD(1)' EQ '&PMTB(1)')) .CP24A7Z AG70
&PMU SETB 1 SET USERDEFAULT OPTION JM64
AGO .CP24B AG70
.CP24A5B ANOP
AIF (('&PROGMOD(2)' EQ '&PMTB(1)') OR X
('&PROGMOD(2)' EQ '&PMTB(2)')) .CP24A6Z AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(1)') OR X
('&PROGMOD(1)' EQ '&PMTB(2)')) .CP24A7Z AG70
&PM2 SETB 1 SET STRUCTURED2 OPTION JM64
AGO .CP24B CHECK FIRST, SECOND PARAMETERS AG70
.CP24A6 ANOP AG70
AIF (&CT EQ 5).CP24A6A AG70
AIF (&CT EQ 6).CP24A6B AG70
AIF ('&PROGMOD(2)' EQ '&PMTB(5)') .CP24A6Z AG70
AIF ('&PROGMOD(2)' EQ '&PMTB(6)') .CP24A6Z AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(5)') .CP24A7Z AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(6)') .CP24A7Z AG70
AGO .CD24A SET XREF OPTION AG70
.CP24A6A ANOP AG70
AIF ('&PROGMOD(2)' EQ '&PMTB(4)') .CP24A6Z AG70
AIF ('&PROGMOD(2)' EQ '&PMTB(6)') .CP24A6Z AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(4)') .CP24A7Z AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(6)') .CP24A7Z AG70
AGO .CD24A SET XREF OPTION AG70
.CP24A6B ANOP AG70
AIF ('&PROGMOD(2)' EQ '&PMTB(4)') .CP24A6Z AG70
AIF ('&PROGMOD(2)' NE '&PMTB(5)') .CP24A7 AG70
.CP24A6Z ANOP AG70
MNOTE 8,'PROGMOD PARAMETER #3 - &PROGMOD(3) - CONFLICT WITH #2.
- &PROGMOD(2).. '
MNOTE 8,' THIS VALUE IS IGNORED.'
AGO .CP24B CHECK FIRST, SECOND PARAMETERS AG70
.CP24A7 ANOP AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(4)') .CP24A7Z AG70
AIF ('&PROGMOD(1)' NE '&PMTB(5)') .CD24A AG70
.CP24A7Z ANOP AG70
MNOTE 8,'PROGMOD PARAMETER #3 - &PROGMOD(3) - CONFLICT WITH #1.
- &PROGMOD(1).. '
MNOTE 8,' THIS VALUE IS IGNORED.'
AGO .CP24B CHECK FIRST, SECOND PARAMETERS AG70
.CD24A ANOP CHECK XREF OPTION OVERRIDE AG70
AIF (&CT EQ 4).CP24B OPTION IS DEFAULT. CONTINUE AG70
AIF (&CT EQ 6).CD24B GO SET NOXREF OPTION AG70
&PMA SETB 1 SET XREF OPTION "XREFA"
.CD24B ANOP CHECK XREF OPTION OVERRIDE
&PMR SETB 0 TURN OFF OPTION "XREFXREF" (NOXREF)
.CP24B ANOP CHECK FIRST, SECOND PARAMETERS
*****
.*
.* &PROGMOD - SECOND LIST ITEM
.*
*****
&CT SETA 0 RESET LOOP COUNTER
.CP24B1 ANOP AG70
&CT SETA &CT+1
AIF ('&PROGMOD(2)' EQ '&PMTB(&CT)') .CP24B2 AG70
AIF (&CT LT 7).CP24B1 LOOP CONTROL AG70
MNOTE 8,'PROGMOD PARAMETER VALUE #2 - &PROGMOD(2) - IS INVALID.
.'
MNOTE 8,' THIS VALUE IS IGNORED.'
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24B2 ANOP AG70
AIF ('&PROGMOD(2)' NE '&PROGMOD(1)') .CP24B3 AG70
MNOTE 8,'PROGMOD PARAMETER VALUE #2 - &PROGMOD(2) - IS A DUPLIC
CATE.'

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MNOTE 8, ' THIS VALUE IS IGNORED.'
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24B3 ANOP AG70
AIF (&CT LT 7).CP24B4 AG70
&PME SETB 1 SET NO EXPONENTIATION OPTION
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24B4 ANOP AG70
AIF (&CT GT 3).CP24B6 CHECK XREF CONFLICT AG70
AIF (&CT EQ 3).CP24B5 AG70
AIF (&CT EQ 2).CP24BX AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(3)') OR X
('&PROGMOD(1)' EQ '&PMTB(2)')).CP24B7 AG70
&PMS SETB 1 SET STRUCTURED OPTION
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24BX ANOP AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(3)') OR X
('&PROGMOD(1)' EQ '&PMTB(1)')).CP24B7 AG70
&PMU SETB 1 SET USERDEFAULT OPTION JM64
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24B5 ANOP AG70
AIF (('&PROGMOD(1)' EQ '&PMTB(1)') OR X
('&PROGMOD(1)' EQ '&PMTB(2)')).CP24B7 AG70
&PM2 SETB 1 SET STRUCTURED2 OPTION JM64
AGO .CP24C CHECK FIRST PARAMETER AG70
.CP24B6 ANOP AG70
AIF (&CT EQ 5).CP24B6A "XREFA" CONFLICT CHECK AG70
AIF (&CT EQ 6).CP24B6B "NOXREF" CONFLICT CHECK AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(5)').CP24B7 AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(6)').CP24B7 AG70
AGO .CP24C DEFAULT VALUE. CHECK FIRST PARM AG70
.CP24B6A ANOP AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(4)').CP24B7 AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(6)').CP24B7 AG70
AGO .CD24C SET XREF OPTION AG70
.CP24B6B ANOP AG70
AIF ('&PROGMOD(1)' EQ '&PMTB(4)').CP24B7 AG70
AIF ('&PROGMOD(1)' NE '&PMTB(5)').CD24C AG70
.CP24B7 ANOP AG70
MNOTE 8, 'PROGMOD PARAMETER #2 - &PROGMOD(2) - CONFLICT WITH #1.
- &PROGMOD(1).. '
MNOTE 8, ' THIS VALUE IS IGNORED.'
AGO .CP24C CHECK FIRST PARAMETER AG70
.CD24C ANOP CHECK XREF OPTION OVERRIDE AG70
AIF (&CT EQ 6).CD24D SET NOXREF OPTION AG70
&PMA SETB 1 SET XREF OPTION "XREFA"
.CD24D ANOP CHECK XREF OPTION OVERRIDE
&PMR SETB 0 TURN OFF OPTION "XREFXREF" (NOXREF)
.CP24C ANOP CHECK FIRST PARAMETER
*****
.*
.* &PROGMOD - FIRST (OR ONLY) LIST ITEM
.*
*****
&CT SETA 0 RESET LOOP COUNTER
.CP24C1 ANOP AG70
&CT SETA &CT+1
AIF ('&PROGMOD(1)' EQ '&PMTB(&CT)').CP24C2 AG70
AIF (&CT LT 7).CP24C1 LOOP CONTROL AG70
MNOTE 8, 'PROGMOD PARAMETER VALUE #1 - &PROGMOD(1) - IS INVALID.
.'
MNOTE 8, ' THIS VALUE IS IGNORED.'
AGO .PROGMOD_X CHECK NEXT PARAMETER AG70
.CP24C2 ANOP AG70
AIF (&CT LT 7).CP24C3 AG70
&PME SETB 1 SET NO EXPONENTIATION OPTION
AGO .PROGMOD_X CHECK NEXT PARAMETER AG70
.CP24C3 ANOP
AIF (&CT GT 3).CP24C4 CHECK XREF OVERRIDE AG70
AIF (&CT EQ 3).CP24C3A SET STRUCT2 OPTION AG70
AIF (&CT EQ 2).CP24C3X AG70
&PMS SETB 1 SET STRUCTURED OPTION
AGO .PROGMOD_X CHECK NEXT PARAMETER AG70
.CP24C3X ANOP
&PMU SETB 1 SET USER DEFINED OPTION
AGO .PROGMOD_X CHECK NEXT PARAMETER AG70
.CP24C3A ANOP AG70

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&PM2      SETB 1          SET STRUCTURED2 OPTION          JM64
          AGO .PROGMOD_X    CHECK NEXT PARAMETER          AG70
.CP24C4   ANOP
          AIF (&CT EQ 4).PROGMOD X DEFAULT. NEXT PARM      AG70
          AIF (&CT EQ 6).CP24C4A TURN OFF "XREFXREF" OPTION AG70
&PMA     SETB 1          SET "XREFA" OPTION
.CP24C4A ANOP          AG70
&PMR     SETB 0          TURN OFF "XREFXREF" OPTION
.PROGMOD_X ANOP          AG70
*****08JM60
.*
.* &PRTCTRS          II/A          08JM60
.* PRINT ALL USER COUNTERS IF VALUE IS 0 (PRTCTRS=Y)      08JM60
*****08JM60
          AIF ('&PRTCTRS' EQ '').PRTCTR N SET DEFAULT IF OMIT 08JM60
          AIF ('&PRTCTRS' EQ 'N').PRTCTR N SET DON'T PRINT 08JM60
          AIF ('&PRODUCT' NE '60').PRTCTR E          08JB60
          MNOTE 4,'PARAMETER PROGMOD NOT AVAILABLE FOR &CPFX.SIXTY. X
          THE OPTION IS IGNORED.'          JB60
          AGO .PRTCTR_N          08JB60
.PRTCTR_E ANOP          08JM60
          AIF ('&PRTCTRS' EQ 'Y').PRTCTR Y SET TO PRINT 0 VALS 08JM60
          MNOTE 8,'PARAMETER PRTCTRS - &PRTCTRS - IS INVALID.' 08JM60
          MNOTE 8,' THE DEFAULT OF - N - WILL BE USED.'          08JM60
.PRTCTR_N ANOP          08JM60
&C6(1)   SETB 0          SET NOT TO PRINT 0 VALUES      08JM60
          AGO .PRTCTR_X          CHECK NEXT PARAMETER      08JM60
.PRTCTR_Y ANOP          08JM60
&C6(1)   SETB 1          SET PRINT COUNTER IF 0          08JM60
.PRTCTR_X ANOP          08JM60
*****08JM64
.*
.* &PRTER6          60/A          JM64
.* VISION:SIXTY PRINT ERROR ANALYSIS OPTION              JM64
.* (ALLOW FOR RESULTS & EIGHTY FOR SHARED LOADLIBS,DYLPCCPS) JM70
*****08JM64
          AIF ('&PRTER6' EQ '').PRTER6 O          AG70
          AIF ('&PRTER6' NE 'N').PRTER6 E MSG IF NOT NUMERIC JM60
          AIF (&PRTER6 LE 3).PRTER6 A MESSAGE IF GT 3      AG70
.PRTER6_E ANOP          AG70
          MNOTE 8,'PARAMETER PRTER6 - &PRTER6 - IS INVALID.' JM64
          MNOTE 8,' THE DEFAULT OF - STANDARD - WILL BE USED.' JM64
.PRTER6_O ANOP          AG70
&PRTER60 SETC ' '          JM64
          AGO .PRTER6_X          CHECK NEXT PARAMETER      AG70
.PRTER6_A ANOP          AG70
&PRTER60 SETC '&PRTER6' SET ERROR ANALYSIS OPTION        JM64
.PRTER6_X ANOP          AG70
*****08JM64
.*
.* &PRTZERO          A/A          JM64
*****08JM64
          AIF ('&PRTZERO' EQ '').PRTZERO X          AG70
          AIF ('&PRODUCT' NE '70').PRTZERO V MNOTE VISION:SEVENTY AG70
          MNOTE 4,'PARAMETER PRTZERO NOT AVAILABLE FOR &CPFX.&CNAM.. X
          THE OPTION IS IGNORED.'          JB60
          AGO .PRTZERO_X          CHECK NEXT PARAMETER      AG70
.PRTZERO_V ANOP          AG70
          AIF ('&PRTZERO' EQ 'Y').PRTZERO S          AG70
          AIF ('&PRTZERO' EQ 'N').PRTZERO D          JM60
          MNOTE 8,'PARAMETER PRTZERO OPTION - &PRTZERO - IS INVALID.'
          MNOTE 8,' THE OPTION IS IGNORED.'
          AGO .PRTZERO_X          CHECK NEXT PARAMETER      AG70
.PRTZERO_D ANOP          AG70
&C2(2)   SETB 0          STANDARD EDIT CODES A, B
          AGO .PRTZERO_X          CHECK NEXT PARAMETER      AG70
.PRTZERO_S ANOP          AG70
&C2(2)   SETB 1          PRINT ZERO, EDIT CODES A, B
.PRTZERO_X ANOP          AG70
*****08JM64
.*
.* &QLF             II/A
.*
*****08JM64
          AIF ('&QLF' EQ '').QLF_X          JM70

```

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        AIF ('&PRODUCT' NE '60').QLF V JM70
MNOTE 4,'PARAMETER QLF NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .QLF_X CHECK NEXT PARAMETER JM70
.QLF_V ANOP JM70
        AIF ('&QLF' EQ 'Y').QLF_S JM70
        AIF ('&QLF' EQ 'N').QLF_D JM60
MNOTE 8,'PARAMETER QLF OPTION - &QLF - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .QLF_X CHECK NEXT PARAMETER JM70
.QLF_D ANOP JM70
&C5(6) SETB 0 NO OPTION QLF AS DEFAULT JM60
        AGO .QLF_X CHECK NEXT PARAMETER JM70
.QLF_S ANOP JM70
&C5(6) SETB 1 SET OPTION QLF AS DEFAULT JM70
.QLF_X ANOP JM70
*****JB60
.*
.* &RANDMPCT A/A JB60
.*
.* USE SAMPLE RANDOMIZER REQUIRED BY GOVERNMENT AGENCIES JB60
.*
*****JB60
        AIF ('&RANDMPCT' EQ '').RANDMPCT_X JB60
        AIF ('&RANDMPCT' EQ 'N').RANDMPCT_X JB60
        AIF ('&RANDMPCT' EQ 'Y').RANDMPCT_A JB60
MNOTE 8,'PARAMETER RANDMPCT OPTION - &RANDMPCT - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.' JB60
        AGO .RANDMPCT_X JB60
.RANDMPCT_A ANOP JB60
&CFA(2) SETB 1 SET TO GOVT SAMPLE RANDOMIZER JB60
.RANDMPCT_X ANOP JB60
*****08JM64
.*
.* &RDYONLY II/A
.*
*****08JM64
        AIF ('&RDYONLY' EQ '').RDYONLY_X AG70
        AIF ('&PRODUCT' NE '60').RDYONLY_V AG70
MNOTE 4,'PARAMETER RDYONLY NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .RDYONLY_X CHECK NEXT PARAMETER AG70
.RDYONLY_V ANOP AG70
        AIF ('&RDYONLY' EQ 'Y').RDYONLY_S AG70
        AIF ('&RDYONLY' EQ 'N').RDYONLY_D JM60
MNOTE 8,'PARAMETER RDYONLY OPTION - &RDYONLY - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .RDYONLY_X CHECK NEXT PARAMETER AG70
.RDYONLY_D ANOP AG70
&C2(6) SETB 0 DON'T CREATE READONLY OPTION JM60
        AGO .RDYONLY_X CHECK NEXT PARAMETER AG70
.RDYONLY_S ANOP AG70
&C2(6) SETB 1 CREATE READONLY OPTION
.RDYONLY_X ANOP AG70
*****08JM64
.*
.* &RESRWRD II/A
.*
*****08JM64
        AIF ('&RESRWRD' EQ '').RESRWRD_X AG70
        AIF ('&PRODUCT' NE '60').RESRWRD_V AG70
MNOTE 4,'PARAMETER RESRWRD NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .RESRWRD_X CHECK NEXT PARAMETER AG70
.RESRWRD_V ANOP AG70
        AIF ('&RESRWRD' EQ 'Y').RESRWRD_S AG70
        AIF ('&RESRWRD' EQ 'N').RESRWRD_D 07JM60
MNOTE 8,'PARAMETER RESRWRD OPTION - &RESRWRD - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .RESRWRD_X CHECK NEXT PARAMETER AG70
.RESRWRD_D ANOP AG70
&C1(7) SETB 0 RESERVED WORDS CAN'T BE DATANAMES 7JM60
        AGO .RESRWRD_X CHECK NEXT PARAMETER AG70
.RESRWRD_S ANOP AG70
&C1(7) SETB 1 RESERVED WORDS MAY BE DATANAMES
.RESRWRD_X ANOP AG70

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*****08JM64
.*
.*  &RETCODE                A/A
.*
*****08JM64
    AIF ('&RETCODE' EQ '') .RETCODE_Y    DEFAULT TO Y    07JM60
    AIF ('&RETCODE' EQ 'Y') .RETCODE_Y    07JM60
    AIF ('&RETCODE' EQ 'N') .RETCODE_N    07JM60
    MNOTE 8, 'PARAMETER RETCODE OPTION - &RETCODE - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .RETCODE_X                                AG70
.RETCODE_Y ANOP                                AG70
&C2(7) SETB 1                                ACCESS RETURN CODE FROM CALLED ROUTINES
    AGO .RETCODE_X                                AG70
.RETCODE_N ANOP                                AG70
&C2(7) SETB 0                                DONT ACCESS RETURN CODE FROM CALLED ROUTINES
.RETCODE_X ANOP                                AG70
*****07JM60
.*
.*  &RPTASA                  A/A
.*
*****07JM60
    AIF ('&RPTASA' EQ '') .RPTASA_N    DEFAULT TO N    07JM60
    AIF ('&RPTASA' EQ 'N') .RPTASA_N    07JM60
    AIF ('&RPTASA' EQ 'Y') .RPTASA_Y    07JM60
    MNOTE 8, 'PARAMETER RPTASA OPTION - &RPTASA - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .RPTASA_X                                07JM60
.RPTASA_Y ANOP                                07JM60
&CF8(8) SETB 1                                DEFAULT ALL REPORTS TO ASA CC    07JM60
    AGO .RPTASA_X                                07JM60
.RPTASA_N ANOP                                07JM60
&CF8(8) SETB 0                                DEFAULT ALL REPORTS MACHINE CC    07JM60
.RPTASA_X ANOP                                07JM60
*****07JM60
.*
.*  &RPTDDNM                 A/O
.*
*****07JM60
    AIF ('&RPTDDNM' EQ '') .RPTDDNM_X    07JM60
    AIF (&OSOS) .RPTDDNM_V                07JM60
    MNOTE 8, 'PARAMETER RPTDDNM NOT AVAILABLE FOR ENVIRONMENT &PRENV
    V.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .RPTDDNM_X                                CHECK NEXT PARAMETER    07JM60
.RPTDDNM_V ANOP                                07JM60
    AIF (K'&RPTDDNM LE 8) .RPTDDNM_A    07JM60
    MNOTE 8, 'PARAMETER RPTDDNM VALUE - &RPTDDNM - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .RPTDDNM_X                                CHECK NEXT PARAMETER    07JM60
.RPTDDNM_A ANOP                                07JM60
&OI(4) SETB 1                                SET USER DDNAME REQUESTED    07JM60
&RPTDN SETC '&RPTDDNM'                    SET USERS DDNAME            07JM60
.RPTDDNM_X ANOP                                07JM60
*****07JM60
.*
.*  &RPTXPAG                 A/A
.*
*****07JM60
    AIF ('&RPTXPAG' EQ '') .RPTXPAG_N    DEFAULT TO N    07JM60
    AIF ('&RPTXPAG' EQ 'N') .RPTXPAG_N    07JM60
    AIF ('&RPTXPAG' EQ 'Y') .RPTXPAG_Y    07JM60
    MNOTE 8, 'PARAMETER RPTXPAG OPTION - &RPTXPAG - IS INVALID.'
    MNOTE 8, '    THE OPTION IS IGNORED.'
    AGO .RPTXPAG_X                                07JM60
.RPTXPAG_Y ANOP                                07JM60
&CF8(7) SETB 1                                SUPPRESS EXTRA 'EJECT' REPORT PAGES    07JM60
    AGO .RPTXPAG_X                                07JM60
.RPTXPAG_N ANOP                                07JM60
&CF8(7) SETB 0                                ALLOW EXTRA 'EJECT' REPORT PAGES    07JM60
.RPTXPAG_X ANOP                                07JM60
*****08JM64
.*
.*  &R15RC                    A/M
.*
*****08JM64

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```

        AIF ('&R15RC' EQ '').R15RC_X AG70
        AIF (&OSDOS21).R15RC_V DM70
        MNOTE 8,'PARAMETER R15RC NOT AVAILABLE FOR ENVIRONMENT &PRENV..
        ' DM70
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .R15RC_X CHECK NEXT PARAMETER AG70
.R15RC_V ANOP AG70
        AIF ('&R15RC' EQ 'Y').R15RC_S AG70
        AIF ('&R15RC' EQ 'N').R15RC_D JM60
        MNOTE 8,'PARAMETER R15RC VALUE - &R15RC - IS INVALID.'
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .R15RC_X CHECK NEXT PARAMETER AG70
.R15RC_D ANOP AG70
&M(1) SETB 0 RETURN CODE NOT RETURNED R15 JM60
        AGO .R15RC_X CHECK NEXT PARAMETER AG70
.R15RC_S ANOP AG70
&M(1) SETB 1 RETURN CODE LOADED INTO REG 15
.R15RC_X ANOP AG70
*****08JM64
.*
.* &SORTDEV/SORTDYN II/O
.*
*****08JM64
        AIF ('&SORTDEV' EQ '').SORTDEV_X AG70
        AIF (&OSOS).SORTDEV_Z DM70
        MNOTE 8,'PARAMETER SORTDEV NOT AVAILABLE FOR ENVIRONMENT &PRENV
        V..' DM70
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .SORTDEV_X CHECK NEXT PARAMETER AG70
.SORTDEV_Z ANOP AG70
        AIF ('&PRODUCT' NE '60').SORTDEV_V JM70
        MNOTE 4,'PARAMETER SORTDEV NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .SORTDEV_X CHECK NEXT PARAMETER AG70
.SORTDEV_V ANOP JM70
        AIF ('&SORTDYN' NE '').SORTDEV_B JM70
        MNOTE 8,'SORTDYN PARAMETER HAS NOT BEEN SPECIFIED. IT IS REQUIR
        RED IF'
        MNOTE 8,' PARAMETER SORTDEV IS REQUESTED.'
        MNOTE 8,' PARAMETER SORTDEV IS IGNORED.'
        AGO .SORTDYN_X AG70
.SORTDEV_B ANOP JM70
        AIF ('&SORTDYN' NE 'Y').SORTDYN_E AG70
        AIF ('&SORTDEV' EQ 'SYSDA').SORTDYN_A AG70
        AIF (K'&SORTDEV LE 8).SORTDEV_A JM70
&CTKN SETA K'&SORTDEV
        MNOTE 8,'PARAMETER SORTDEV NAME &SORTDEV EXCEEDS 8 CHARACTERS..
        '
        MNOTE 8,' THE DEFAULT NAME WILL BE USED.'
        AGO .SORTDYN_A SORTDYN IS VALID, SET THE OPTION AG70
.SORTDEV_A ANOP JM70
&SRTDEV SETC '&SORTDEV' SET SORT DEVICE TYPE
&SDEV9 SETA 9+K'&SORTDEV LENGTH OF DEVICE NAME + 9
        AGO .SORTDYN_A SORTDYN IS VALID, SET THE OPTION AG70
.SORTDEV_X ANOP AG70
*****
.* *****08JM64
.* &SORTDYN II/O
.* *****08JM64
*****
        AIF ('&SORTDYN' EQ '').SORTDYN_X AG70
        AIF (&OSOS).SORTDYN_Z DM70
        MNOTE 8,'PARAMETER SORTDYN NOT AVAILABLE FOR ENVIRONMENT &PRENV
        V..' DM70
        MNOTE 8,' THE OPTION IS IGNORED.'
        AGO .SORTDYN_X CHECK NEXT PARAMETER AG70
.SORTDYN_Z ANOP AG70
        AIF ('&PRODUCT' NE '60').SORTDYN_V AG70
        MNOTE 4,'PARAMETER SORTDYN NOT AVAILABLE FOR &CPFX.SIXTY. X
        THE OPTION IS IGNORED.' JB60
        AGO .SORTDYN_X CHECK NEXT PARAMETER AG70
.SORTDYN_V ANOP AG70
        AIF ('&SORTDYN' EQ 'Y').SORTDYN_A AG70
        AIF ('&SORTDYN' EQ 'N').SORTDYN_X JM60
.SORTDYN_E ANOP AG70
        MNOTE 8,'PARAMETER SORTDYN VALUE - &SORTDYN - IS INVALID.'

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MNOTE 8, ' THIS PARAMETER, AND SORTDEV, WILL BE IGNORED.'
AGO .SORTDYN_X CHECK NEXT PARAMETER AG70
.SORTDYN A ANOP AG70
&O(5) SETB 1 SET DYNAMIC SORTWORK ALLOCATION
.SORTDYN X ANOP AG70
*****08JM64
.*
.* &SORTMEM A/O
.*
*****08JM64
&SMIN SETA &SMIN*1024 SET DEFAULT SORT MINIMUM VALUE
&SMAX SETA &SMAX*1024 SET DEFAULT SORT MAXIMUM VALUE
&SEQMAX SETA &SEQMAX*1024 SET DEFAULT SORT=MAX VALUE
&SRMAX SETA &SRMAX*1024 SET DEFAULT SORT RESET MAXIMUM VALUE
AIF ('&SORTMEM' EQ '') .SORTMEM_X AG70
AIF (&OSOS) .SORTMEM_Z JM60
MNOTE 8, 'PARAMETER SORTMEM NOT AVAILABLE FOR ENVIRONMENT &PRENV
V..' DM70
MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .SORTMEM_X CHECK NEXT PARAMETER JM60
.SORTMEM_Z ANOP JM60
AIF (N'&SORTMEM LE 4) .SORTMEM_V AG70
&CTKN SETA N'&SORTMEM
MNOTE 8, 'SORTMEM PARAMETER LIST CONTAINS &CTKN ITEMS, THE MAXIM
MUM IS 4.'
MNOTE 8, ' THE DEFAULT VALUES WILL BE USED.'
AGO .SORTMEM_X CHECK NEXT PARAMETER AG70
.SORTMEM_V ANOP AG70
*****
.*
.* &SORTMEM(1) - MINIMUM SORT MEMORY VALUE
.*
*****
AIF ('&SORTMEM(1)' EQ '') .SORTMEM_B AG70
AIF (T'&SORTMEM(1) EQ 'N') .SORTMEM_A1 AG70
MNOTE 8, 'PARAMETER SORTMEM VALUE IS INVALID - &SORTMEM(1)..'
MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.'
AGO .SORTMEM_B AG70
.SORTMEM_A1 ANOP AG70
&SMIN SETA &SORTMEM(1)*1024 SET MINIMUM SORT MEMORY VALUE
.SORTMEM_B ANOP AG70
AIF (N'&SORTMEM EQ 1) .SORTMEM_X AG70
*****
.*
.* &SORTMEM(2) - MAXIMUM SORT MEMORY VALUE
.*
*****
AIF ('&SORTMEM(2)' EQ '') .SORTMEM_C AG70
AIF (T'&SORTMEM(2) EQ 'N') .SORTMEM_A2 AG70
MNOTE 8, 'PARAMETER SORTMEM VALUE IS INVALID - &SORTMEM(2)..'
MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.'
AGO .SORTMEM_C AG70
.SORTMEM_A2 ANOP AG70
&SMAX SETA &SORTMEM(2)*1024 SET MAXIMUM SORT MEMORY
.SORTMEM_C ANOP AG70
AIF (N'&SORTMEM EQ 2) .SORTMEM_X AG70
*****
.*
.* &SORTMEM(3) - "CORE=MAX" SORT MEMORY VALUE
.*
*****
AIF ('&SORTMEM(3)' EQ '') .SORTMEM_D AG70
AIF (T'&SORTMEM(3) EQ 'N') .SORTMEM_A3 AG70
MNOTE 8, 'PARAMETER SORTMEM VALUE IS INVALID - &SORTMEM(3)..'
MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.'
AGO .SORTMEM_D AG70
.SORTMEM_A3 ANOP AG70
&SEQMAX SETA &SORTMEM(3)*1024 SET "CORE=MAX" SORT MEMORY
.SORTMEM_D ANOP AG70
AIF (N'&SORTMEM EQ 3) .SORTMEM_X AG70
*****
.*
.* &SORTMEM(4) - RESET MAXIMUM SORT MEMORY VALUE
.*
*****
AIF (T'&SORTMEM(4) EQ 'N') .SORTMEM_A4 AG70

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MNOTE 8,'PARAMETER SORTMEM VALUE IS INVALID - &SORTMEM(4).. '
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.'
AGO .SORTMEM_X CHECK NEXT PARAMETER AG70
.SORTMEM_A4 ANOP AG70
&SRMAX SETA &SORTMEM(4)*1024 SET RESET MAXIMUM SORT MEMORY VALUE
.SORTMEM_X ANOP AG70
*****08JM64
.*
.* &SORTNAM A/A
.*
*****08JM64
AIF (('&SORTNAM' EQ 'SORT') OR X
('&SORTNAM' EQ ' ').SORTNAM_X JM60
&CTKN AIF (K'&SORTNAM LE 8).SORTNAM_A AG70
SETA K'&SORTNAM
MNOTE 8,'PARAMETER SORTNAM - &SORTNAM - CONTAINS &CTKN CHARACTE
ERS - THE MAXIMUM LENGTH IS 8.'
MNOTE 8,' THE DEFAULT VALUE "SORT" WILL BE USED.'
AGO .SORTNAM_X CHECK NEXT PARAMETER AG70
.SORTNAM_A ANOP AG70
&SRTNAM SETC '&SORTNAM' SORT PROGRAM NAME
.SORTNAM_X ANOP AG70
*****08JM64
.*
.* &SQLIFIF II/A
.*
*****08JM64
AIF ('&SQLIFIF' EQ ' ').SQLIFIF_X AG70
AIF ('&PRODUCT' NE '60').SQLIFIF_V AG70
MNOTE 4,'PARAMETER SQLIFIF NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .SQLIFIF_X CHECK NEXT PARAMETER AG70
.SQLIFIF_V ANOP AG70
AIF ('&SQLIFIF' EQ 'Y').SQLIFIF_A AG70
AIF ('&SQLIFIF' EQ 'N').SQLIFIF_X JM60
MNOTE 8,'PARAMETER SQLIFIF OPTION - &SQLIFIF - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .SQLIFIF_X CHECK NEXT PARAMETER AG70
.SQLIFIF_A ANOP AG70
&C1(3) SETB 1 NESTED IF STATEMENTS, SQL INTERFACE
.SQLIFIF_X ANOP AG70
*****08JM64
.*
.* &SSMASK A/A
.*
*****08JM64
AIF ('&SSMASK' EQ ' ').SSMASK_X AG70
AIF ('&PRODUCT' NE '70').SSMASK_V MNOTE VISION:SEVENTY AG70
MNOTE 4,'PARAMETER SSMASK NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .SSMASK_X CHECK NEXT PARAMETER AG70
.SSMASK_V ANOP AG70
AIF ('&SSMASK' EQ 'C').SSMASK_A AG70
AIF ('&SSMASK' EQ 'N').SSMASK_X JM60
MNOTE 8,'PARAMETER SSMASK OPTION - &SSMASK - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .SSMASK_X CHECK NEXT PARAMETER AG70
.SSMASK_A ANOP AG70
&C2(3) SETB 1 CANADIAN SOCIAL INSURANCE EDIT MASK
.SSMASK_X ANOP AG70
*****22JB80
.*
.* &STATPLN II/A
.*
DB2 DATABASE STATIC PLAN ID
*****22JB80
AIF ('&STATPLN' EQ ' ').STATPLN_X 22JB80
AIF (('&PRODUCT' EQ 'II') OR X
('&PRODUCT' EQ '80')).STATPLN_V 22JB80
MNOTE 4,'PARAMETER STATPLN NOT AVAILABLE FOR &CPFX.&CNAM.. X
THE OPTION IS IGNORED.' JB60
AGO .STATPLN_X CHECK NEXT PARAMETER 22JB80
.STATPLN_V ANOP 22JB80
AIF (K'&STATPLN LE 8).STATPLN_S 22JB80
MNOTE 8,'PARAMETER STATPLN GREATER THAN 8 CHARACTERS.' 22JB80
MNOTE 8,' THE OPTION IS IGNORED.' 22JB80
AGO .STATPLN_X CHECK NEXT PARAMETER 22JB80

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.STATPLN_S ANOP                                22JB80
&STATPID SETC '&STATPLN'                      ASSIGN PLAN ID NAME      22JB80
&C8(3) SETB 1                                INDICATE PLAN ID NAME PRESENT 22JB80
.STATPLN X ANOP                                22JB80
*****
.*
.* &STATSYS                                  II/A                      22JB80
.* DB2 DATABASE STATIC SUBSYSTEM ID          22JB80
*****
.AIF ('&STATSYS' EQ '').STATSYS_X            22JB80
.AIF (('&PRODUCT' EQ 'II') OR                X
      ('&PRODUCT' EQ '80')).STATSYS V        22JB80
.MNOTE 4,'PARAMETER STATSYS NOT AVAILABLE FOR &CPFX.&CNAM.. X
      THE OPTION IS IGNORED.'                JB60
.AGO .STATSYS_X                              CHECK NEXT PARAMETER      22JB80
.STATSYS_V ANOP                               22JB80
.AIF (K'&STATSYS LE 8).STATSYS_S            22JB80
.MNOTE 8,'PARAMETER STATSYS GREATER THAN 8 CHARACTERS.' 22JB80
.MNOTE 8,' THE OPTION IS IGNORED.'          22JB80
.AGO .STATSYS_X                              CHECK NEXT PARAMETER      22JB80
.STATSYS_S ANOP                               22JB80
&STATSID SETC '&STATSYS'                      ASSIGN SYS ID NAME      22JB80
&C8(4) SETB 1                                INDICATE SYS ID NAME PRESENT 22JB80
.STATSYS X ANOP                               22JB80
*****08JM64
.*
.* &STRUCGO                                  II/A
.*
*****08JM64
.AIF ('&STRUCGO' EQ '').STRUCGO_X            AG70
.AIF ('&PRODUCT' NE '60').STRUCGO_V          AG70
.MNOTE 4,'PARAMETER STRUCGO NOT AVAILABLE FOR &CPFX.SIXTY. X
      THE OPTION IS IGNORED.'                JB60
.AGO .STRUCGO_X                              CHECK NEXT PARAMETER      AG70
.STRUCGO_V ANOP                               AG70
.AIF ('&STRUCGO' EQ 'Y').STRUCGO_S           AG70
.AIF ('&STRUCGO' EQ 'N').STRUCGO_X           JM60
.MNOTE 8,'PARAMETER STRUCGO OPTION - &STRUCGO - IS INVALID.'
.MNOTE 8,' THE OPTION IS IGNORED.'
.AGO .STRUCGO_X                              CHECK NEXT PARAMETER      AG70
.STRUCGO_S ANOP                               AG70
&C2(8) SETB 1                                ALLOW GOTO IN STRUCTURED MODE
.STRUCGO X ANOP
*****08JM64
.*
.* &SUBRADD                                  A/O,M                      DM70
.*
*****08JM64
.AIF (&OSOS).SUBRADD_Z PARAM OK FOR MVS     DM70
.AIF (&OSDOS21).SUBRADD_V PARAM OK FOR VSE 2.1 + DM70
**** DECODE FOR VSESP PRIOR TO 2.1          DM70
.MNOTE 8,'PARAMETER SUBRADD NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V.'                                     DM70
.MNOTE 8,' THE OPTION IS SET TO N.'          DM70
.AGO .SUBRADD_VN                              DM70
**** DECODE FOR MVS                          DM70
.SUBRADD_Z ANOP                               DM70
.AIF ('&SUBRADD' EQ '').SUBRADD_ZY SET DEFAULT Y JM60
.AIF ('&SUBRADD' EQ 'Y').SUBRADD_ZY SET 31-BIT CAPABLE DM70
.AIF ('&SUBRADD' EQ 'N').SUBRADD_ZN SET 31-BIT INCAPABLE DM70
.MNOTE 8,'PARAMETER SUBRADD VALUE - &SUBRADD - IS INVALID.'
.MNOTE 8,' THE OPTION IS SET TO N.'
.SUBRADD_ZN ANOP                               DM70
&O(6) SETB 0                                SET 31-BIT INCAPABLE FOR SUBROUTINES DM70
.AGO .SUBRADD_X                              DM70
.SUBRADD_ZY ANOP                               DM70
&O(6) SETB 1                                SET 31-BIT CAPABLE FOR SUBROUTINES DM70
.AGO .SUBRADD_X                              DM70
**** DECODE FOR VSE 2.1 AND LATER            DM70
.SUBRADD_V ANOP                               DM70
.AIF ('&SUBRADD' EQ '').SUBRADD_VY SET DEFAULT Y 07JM60
.AIF ('&SUBRADD' EQ 'Y').SUBRADD_VY SET 31-BIT CAPABLE DM70
.AIF ('&SUBRADD' EQ 'N').SUBRADD_VN SET 31-BIT INCAPABLE DM70
.MNOTE 8,'PARAMETER SUBRADD VALUE - &SUBRADD - IS INVALID.'
.MNOTE 8,' THE OPTION IS SET TO N.'
.SUBRADD_VN ANOP                               DM70

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&M(6)   SETB 0           SET 31-BIT INCAPABLE FOR SUBROUTINES      DM70
&O(6)   SETB 0           SET 31-BIT INCAPABLE FOR SUBROUTINES      DM70
        AGO   .SUBRADD_X      DM70
.SUBRADD_VY ANOP          DM70
&M(6)   SETB 1           SET 31-BIT  CAPABLE FOR SUBROUTINES      DM70
&O(6)   SETB 1           SET 31-BIT  CAPABLE FOR SUBROUTINES      DM70
.SUBRADD_X ANOP          AG70
*****07JM60
.*
.*   &SUPCOBW              II/A          07JM60
.*   PRINT/SUPPRESS COBOL WARNING MSGS DYI-188W & 876W          07JM60
*****07JM60
        AIF  ('&SUPCOBW' EQ '') .SUPCOBW_S      07JM60
        AIF  ('&PRODUCT' NE '60') .SUPCOBW_V    07JM60
        MNOTE 4, 'PARAMETER SUPCOBW NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.'          JB60
        AGO  .SUPCOBW_X      CHECK NEXT PARAMETER      07JM70
.SUBCOBW_V ANOP          07JM60
        AIF  ('&SUPCOBW' EQ 'Y') .SUPCOBW_S      07JM60
        AIF  ('&SUPCOBW' EQ 'N') .SUPCOBW_N      07JM60
        MNOTE 8, 'PARAMETER SUPCOBW OPTION - &SUPCOBW - IS INVALID.'
        MNOTE 8, ' THE OPTION IS IGNORED.'      07JM60
        AGO  .SUPCOBW_X      CHECK NEXT PARAMETER      07JM60
.SUBCOBW_N ANOP          07JM60
&CF9(4) SETB 0           ALLOW   STD COBOL WARNINGS          07JM60
        AGO  .SUPCOBW_X      CHECK NEXT PARAMETER      07JM60
.SUBCOBW_S ANOP          07JM60
&CF9(4) SETB 1           SUPPRESS STD COBOL WARNINGS          07JM60
.SUBCOBW_X ANOP          07JM60
*****08JM64
.*
.*   &SUPRESQ              II/A          08JM64
*****08JM64
        AIF  ('&SUPRESQ' EQ '') .SUPRESQ_X      AG70
        AIF  ('&PRODUCT' NE '60') .SUPRESQ_V    AG70
        MNOTE 4, 'PARAMETER SUPRESQ NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.'          JB60
        AGO  .SUPRESQ_X      CHECK NEXT PARAMETER      AG70
.SUBPRESQ_V ANOP          AG70
        AIF  ('&SUPRESQ' EQ 'Y') .SUPRESQ_S      AG70
        AIF  ('&SUPRESQ' EQ 'N') .SUPRESQ_X      JM60
        MNOTE 8, 'PARAMETER SUPRESQ OPTION - &SUPRESQ - IS INVALID.'
        MNOTE 8, ' THE OPTION IS IGNORED.'      AG70
        AGO  .SUPRESQ_X      CHECK NEXT PARAMETER      AG70
.SUBPRESQ_S ANOP          AG70
&C1(4)  SETB 1           SUPPRESS SQL VARIABLES XREF          AG70
.SUBPRESQ_X ANOP          AG70
*****08JM64
.*
.*   &SUP182W              II/A          08JM64
*****08JM64
        AIF  ('&SUP182W' EQ '') .SUP182W_X      AG70
        AIF  ('&PRODUCT' NE '60') .SUP182W_V    AG70
        MNOTE 4, 'PARAMETER SUP182W NOT AVAILABLE FOR &CPFX.SIXTY. X
                THE OPTION IS IGNORED.'          JB60
        AGO  .SUP182W_X      CHECK NEXT PARAMETER      AG70
.SUB182W_V ANOP          AG70
        AIF  ('&SUP182W' EQ 'Y') .SUP182W_S      AG70
        AIF  ('&SUP182W' EQ 'N') .SUP182W_X      JM60
        MNOTE 8, 'PARAMETER SUP182W OPTION - &SUP182W - IS INVALID.'
        MNOTE 8, ' THE OPTION IS IGNORED.'      AG70
        AGO  .SUP182W_X      CHECK NEXT PARAMETER      AG70
.SUB182W_S ANOP          AG70
&C1(2)  SETB 1           SUPPRESS MESSAGE DYI-182W          AG70
.SUB182W_X ANOP          AG70
*****08JM64
.*
.*   &SUP452E              II/D,M        08JM64
*****08JM64
        AIF  ('&SUP452E' EQ '') .SUP452E_X      AG70
        AIF  (&OSDOS) .SUP452E_D              JM60
        MNOTE 8, 'PARAMETER SUP452E NOT AVAILABLE FOR ENVIRONMENT &PRENV
                V..'                              DM70

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MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .SUP452E_X CHECK NEXT PARAMETER JM60
.SUP452E_D ANOP JM60
_AIF ('&PRODUCT' NE '60').SUP452E V AG70
MNOTE 4, 'PARAMETER SUP452E NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .SUP452E_X CHECK NEXT PARAMETER AG70
.SUP452E_V ANOP AG70
_AIF ('&SUP452E' EQ '&CONDOR').SUP452E_X AG70
_AIF ('T'&SUP452E EQ 'N').SUP452E T AG70
MNOTE 8, 'PARAMETER SUP452E VALUE IS INVALID - &SUP452E..'
MNOTE 8, ' THE DEFAULT VALUE WILL BE USED.'
AGO .SUP452E_X CHECK NEXT PARAMETER AG70
.SUP452E_T ANOP AG70
_AIF (&SUP452E LE 99).SUP452E L AG70
MNOTE 8, 'PARAMETER SUP452E IS GREATER THAN 99.'
MNOTE 8, ' 99 WILL BE USED.'
&CONDOR SETA 99*1024 SET CONDOR LIBRARY BUFFER SIZE
AGO .SUP452E_X CHECK NEXT PARAMETER AG70
.SUP452E_L ANOP
_AIF (&SUP452E GE 8).SUP452E_A AG70
MNOTE 8, 'PARAMETER SUP452E IS LESS THAN 8.'
MNOTE 8, ' 8 WILL BE USED.'
&CONDOR SETA 8*1024 SET CONDOR LIBRARY BUFFER SIZE
AGO .SUP452E_X CHECK NEXT PARAMETER AG70
.SUP452E_A ANOP AG70
&CONDOR SETA &SUP452E*1024 SET CONDOR LIBRARY BUFFER SIZE
.SUP452E_X ANOP AG70
*****06DV80
.* 6DV80
.* &SYSBLOK A/O 6DV80
.* 6DV80
*****06DV80
_AIF ('&SYSBLOK' EQ '').SYSBLOK_X JM60
_AIF (&OSOS).SYSBLOK Z JM60
MNOTE 8, 'PARAMETER SYSBLOK NOT AVAILABLE FOR ENVIRONMENT &PRENV
V..' DM70
MNOTE 8, ' THE OPTION IS IGNORED.'
AGO .SYSBLOK_X CHECK NEXT PARAMETER JM60
.SYSBLOK_Z ANOP JM60
_AIF ('&SYSBLOK' EQ 'Y').SYSBLOK_S 6DV80
_AIF ('&SYSBLOK' EQ 'N').SYSBLOK_X JM60
MNOTE 8, 'PARAMETER SYSBLOK OPTION - &SYSBLOK - IS INVALID.'
MNOTE 8, ' THE OPTION IS IGNORED.' 6DV80
AGO .SYSBLOK_X CHECK NEXT PARAMETER 6JM80
.SYSBLOK_S ANOP 6DV80
&C7(1) SETB 1 SYSBLOK OPTION SELECTED 6DV80
.SYSBLOK_X ANOP 8JM80
*****16DV80
.* 16DV80
.* &TABLEHI II/A 16DV80
.* 16DV80
.* NO LONGER REQUIRED. ALL TABLES RESIDE ABOVE THE LINE 07JB60
*****16DV80
_AIF ('&TABLEHI' EQ '').TABLEHI X 16DV80
MNOTE 4, 'THE TABLEHI OPTION IS NO LONGER SUPPORTED ' 07JM60
MNOTE 4, ' SINCE ALL TABLES RESIDE ABOVE THE LINE. ' 07JM60
MNOTE 4, ' THE OPTION WILL BE IGNORED.' 07JM60
AGO .TABLEHI X CHECK NEXT PARAMETER 07JB60
_AIF ('&PRODUCT' NE '60').TABLEHI V 16DV80
MNOTE 4, 'PARAMETER TABLEHI IS NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .TABLEHI_X CHECK NEXT PARAMETER 16DV80
.TABLEHI_V ANOP 16DV80
_AIF ('&TABLEHI' EQ 'Y').TABLEHI_S 16DV80
_AIF ('&TABLEHI' EQ 'N').TABLEHI_X JM60
MNOTE 8, 'PARAMETER TABLEHI OPTION - &TABLEHI - IS INVALID.'
MNOTE 8, ' THE OPTION IS IGNORED.' 16DV80
AGO .TABLEHI_X CHECK NEXT PARAMETER 16DV80
.TABLEHI_S ANOP 16DV80
&C7(7) SETB 1 TABLEHI OPTION SELECTED 16DV80
.TABLEHI_X ANOP 16DV80
*****16DV80
.*
.* &TAPENO# II/D,M
.*

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*****16DV80
AIF ('&TAPENO#' EQ '').TAPENO#_X AG70
AIF (&OSDOS).TAPENO#_V JM60
MNOTE 8,'PARAMETER TAPENO# NOT AVAILABLE FOR ENVIRONMENT &PRENV
V..' DM70
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .TAPENO#_X CHECK NEXT PARAMETER JM60
.TAPENO#_V ANOP JM60
AIF ('&PRODUCT' NE '60').TAPENO#_C AG70
MNOTE 4,'PARAMETER TAPENO# NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .TAPENO#_X CHECK NEXT PARAMETER AG70
.TAPENO#_C ANOP AG70
AIF ('&TAPENO#' EQ 'Y').TAPENO#_S AG70
AIF ('&TAPENO#' EQ 'N').TAPENO#_X JM60
MNOTE 8,'PARAMETER TAPENO# VALUE - &TAPENO# - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .TAPENO#_X CHECK NEXT PARAMETER AG70
.TAPENO#_S ANOP AG70
&D(2) SETB 1 SYS # NOT REQUIRED FOR VSE TAPES
.TAPENO#_X ANOP AG70
*****16JM70
.* JM70
.* &TIMESEP A/A JM70
.* CHANGE SEPARATOR FOR LISTING DYLETIME JM70
*****16JM70
AIF ('&TIMESEP' EQ '').TIMESEP_D JM70
AIF ('&TIMESEP' EQ '&TIMS').TIMESEP_D JM70
AIF ('&TIMESEP' EQ 'D').TIMESEP_D JM70
AIF ('&TIMESEP' EQ 'C').TIMESEP_S JM70
MNOTE 8,'PARAMETER TIMESEP - &TIMESEP - IS INVALID.' JM70
MNOTE 8,' DEFAULT VALUE WILL BE USED.' JM70
AGO .TIMESEP_D GO SET DEFAULT JM70
.TIMESEP_S ANOP JM70
&C5(3) SETB 1 SET SEPARATOR TO ':' JM70
AGO .TIMESEP_X CHECK NEXT PARAMETER 8JM80
.TIMESEP_D ANOP JM70
&C5(3) SETB 0 KEEP/SET SEPARATOR TO '.' JM70
.TIMESEP_X ANOP 8JM80
*****16JM70
.* JM70
.* &TOMSG II/A 8DV80
.* JM70
*****16JM70
AIF ('&TOMSG' EQ '').TOMSG_X 8JM80
AIF (N'&TOMSG LE 2).TOMSG_P 8DV80
&CTKN SETA N'&TOMSG 8DV80
MNOTE ' TOMSG PARAMETER LIST CONTAINS &CTKN ITEMS, THE MAXIMU
M IS 2.' 8DV80
AGO .TOMSG_I 07JM60
.TOMSG_P ANOP 8DV80
AIF ('&TOMSG(1)' EQ 'Y').TOMSG_Y 8DV80
MNOTE ' PARAMETER TOMSG VALUE IS INVALID - &TOMSG(1).. ' 8DV80
AGO .TOMSG_I 07JM60
.TOMSG_Y ANOP 8DV80
AIF (&OSDOS).TOMSG_RV IF VSE, ALREADY SET 8JM80
&RCHAR SETC 'OPERATOR' SET CMS DEFAULT VALUE 8JM80
AGO .TOMSG_R3 8JM80
.TOMSG_RV ANOP 8JM80
&RVAL SETC '02' 8JM80
.TOMSG_R3 ANOP 8JM80
AIF (N'&TOMSG GT 1).TOMSG_D 8DV80
AGO .TOMSG_E 8DV80
.TOMSG_D ANOP 8DV80
*****
.*
.* &TOMSG - ROUTE TO VALUE
.*
*****
&RCHAR SETC '&TOMSG(2)' SET ROUTE VALUE 8DV80
AIF ('&RCHAR'(1,4) NE 'ROUT').TOMSG_E 8DV80
&RVAL SETC '&RCHAR'(5,2) 8DV80
AIF (T'&RVAL EQ 'N').TOMSG_E 8DV80
MNOTE ' PARAMETER TOMSG VALUE IS INVALID - &RVAL..' 8DV80
AGO .TOMSG_I 07JM60
.TOMSG_E ANOP 8DV80

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Figure 44 Sample DYLINKSTL Member (Page 47 of 56)

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&C7(3)  SETB 1                      RE-ROUTE OPTION SELECTED          8DV80
.TOMSG_I ANOP                          07JM60
      MNOTE 4,'    THE TOMSG OPTION IS NO LONGER SUPPORTED.' 07JM60
      MNOTE 4,'    THE OPTION WILL BE IGNORED.'              07JM60
.TOMSG_X ANOP                          8DV80
*****07RH60
.*                                     07RH60
.*  &VDUPABND                          A/A                          07RH60
.*                                     07RH60
.*  INDICATE VSAM DUPLICATE KEY WITH U300 ABEND INSTEAD OF 07RH60
.*  STATUS CODE 'I'. (VDUPABND=Y)      07RH60
.*                                     07RH60
.*  DYLINSTL FUNTIONALITY ONLY - NO OPTION CARD SUPPORT 07RH60
.*                                     07RH60
*****07RH60
      AIF ('&VDUPABND' EQ '') .VDUPABND_X 07RH60
      AIF ('&VDUPABND' EQ 'Y') .VDUPABND_S 07RH60
      AIF ('&VDUPABND' EQ 'N') .VDUPABND_X 07RH60
      MNOTE 8,'PARAMETER VDUPABND - &VDUPABND - IS INVALID.' 07RH60
      MNOTE 8,'    THE OPTION IS IGNORED.'              07RH60
      AGO .VDUPABND_X          GO CHECK NEXT PARAMETER 07RH60
.VDUPABND_S ANOP                          07RH60
&CF9(7) SETB 1                      SET TO ABEND FOR DUP VSAM KEY 07RH60
.VDUPABND_X ANOP                          07RH60
*****16JM70
.*                                     JM70
.*  &VSAMCAT                          A/O,M                          JM70
.*  USE VSAM CATALOG TO PROVIDE FILE ATTRIBUTES          JM70
*****16JM70
      AIF ('&VSAMCAT' EQ '') .VSAMCAT_S 07JB60
      AIF (&OSOS) .VSAMCAT_V  PARAMETER OK FOR MVS  JM70
      AIF (&OSDOS21) .VSAMCAT_V PARAMETER OK FOR VSE 2.1 + JM70
      MNOTE 8,'PARAMETER VSAMCAT NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V.' DM70
      MNOTE 8,'    THE OPTION IS IGNORED.'              JM70
      AGO .VSAMCAT_X          8JM80
.VSAMCAT_V ANOP                          JM70
      AIF ('&VSAMCAT' EQ 'Y') .VSAMCAT_S  JM70
      AIF ('&VSAMCAT' EQ 'N') .VSAMCAT_X  JM60
      MNOTE 8,'PARAMETER VSAMCAT - &VSAMCAT - IS INVALID.' JM70
      MNOTE 8,'    THE OPTION IS IGNORED.'              JM70
      AGO .VSAMCAT_X          8JM80
.VSAMCAT_S ANOP                          JM70
&C5(1) SETB 1                      SET TO USE VSAM CATALOG          JM70
.VSAMCAT_X ANOP                          8JM80
*****07JM60
.*                                     07JM60
.*  &VSAMMSG                          II/O,M                          07JM60
.*  PRINT/SUPPRESS DYL-1161W MSG          07JM60
*****07JM60
      AIF ('&VSAMMSG' EQ '') .VSAMMSG_X 07JM60
      AIF (&OSOS) .VSAMMSG_V  PARAMETER OK FOR MVS 07JM60
      AIF (&OSDOS21) .VSAMMSG_V PARAMETER OK FOR VSE 2.1 + 07JM60
      MNOTE 8,'PARAMETER VSAMMSG NOT AVAILABLE FOR ENVIRONMENT &PREN.
      V.' 07JM60
      MNOTE 8,'    THE OPTION IS IGNORED.'              07JM60
      AGO .VSAMMSG_X          07JM60
.VSAMMSG_V ANOP                          07JM60
      AIF ('&PRODUCT' NE '60') .VSAMMSG_C 07JM70
      MNOTE 4,'PARAMETER VSAMMSG NOT AVAILABLE FOR &CPFX.SIXTY. X
      THE OPTION IS IGNORED.' JB60
      AGO .VSAMMSG_X          CHECK NEXT PARAMETER 07JM60
.VSAMMSG_C ANOP                          07JM60
      AIF ('&VSAMMSG' EQ 'Y') .VSAMMSG_S 07JM60
      AIF ('&VSAMMSG' EQ 'N') .VSAMMSG_X 07JM60
      MNOTE 8,'PARAMETER VSAMMSG - &VSAMMSG - IS INVALID.' 07JM60
      MNOTE 8,'    THE OPTION IS IGNORED.'              07JM60
      AGO .VSAMMSG_X          GO CHECK NEXT PARAMETER 07JM60
.VSAMMSG_S ANOP                          07JM60
&CF9(2) SETB 1                      SET TO USE VSAM CATALOG          07JM60
.VSAMMSG_X ANOP                          07JM60
*****JM70
.*                                     JM70
.*  &VSEATTR                          A/D,M                          DM70
.*                                     JM70
*****16JM70

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Figure 44 Sample DYLINSTL Member (Page 48 of 56)

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AIF ('&VSEATTR' EQ '').VSEATTR_X DM70
AIF (&OSDOS21).VSEATTR_V PARAMETER OK FOR VSE 2.1 + JM70
MNOTE 8,'PARAMETER VSEATTR NOT AVAILABLE FOR ENVIRONMENT &PREN.
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.' JM70
AGO .VSEATTR_X 8JM80
.VSEATTR_V ANOP JM70
AIF ('&VSEATTR' EQ 'A').VSEATTR_A DM70
AIF ('&VSEATTR' EQ 'T').VSEATTR_T DM70
AIF ('&VSEATTR' EQ 'D').VSEATTR_D DM70
MNOTE 8,'PARAMETER VSEATTR VALUE - &VSEATTR - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .VSEATTR_X CHECK NEXT PARAMETER DM70
.VSEATTR_A ANOP
&M(2) SETB 1 SET TRUE DTFS FOR DISK FILES JM70
.VSEATTR_T ANOP JM70
&M(4) SETB 1 SET TRUE DTFS FOR TAPE FILES JM70
AGO .VSEATTR_X JM70
.VSEATTR_D ANOP JM70
&M(2) SETB 1 SET TRUE DTFS FOR DISK FILES JM70
.VSEATTR_X ANOP JM70
*****16JM70
.*
.* &WRKFDEV II/D,M
.*
*****16JM70
AIF ('&WRKFDEV' EQ '').WRKFDEV_X AG70
AIF (&OSDOS21).WRKFDEV_V PARAMETER OK FOR VSE 2.1 + JM70
MNOTE 8,'PARAMETER WRKFDEV NOT AVAILABLE FOR ENVIRONMENT &PREN.
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.' JM70
AGO .WRKFDEV_X 8JM80
.WRKFDEV_V ANOP JM70
AIF ('&PRODUCT' NE '60').WRKFDEV_I AG70
MNOTE 4,'PARAMETER WRKFDEV NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .WRKFDEV_X CHECK NEXT PARAMETER AG70
.WRKFDEV_I ANOP
AIF ('&WRKFDEV' EQ '2314').WRKFDEV_O1 AG70
AIF ('&WRKFDEV' EQ '3340').WRKFDEV_O2 AG70
AIF ('&WRKFDEV' EQ '3350').WRKFDEV_O3 AG70
MNOTE 8,'PARAMETER WRKFDEV VALUE - &WRKFDEV - IS INVALID.'
MNOTE 8,' THE OPTION IS IGNORED.'
AGO .WRKFDEV_X CHECK NEXT PARAMETER AG70
.WRKFDEV_O1 ANOP AG70
&WKDEV1 SETA 1 DEVICE TYPE ...
&WKDEV2 SETC '1C7E' ... IS 2314
AGO .WRKFDEV_X CHECK NEXT PARAMETER AG70
.WRKFDEV_O2 ANOP AG70
&WKDEV1 SETA 8 DEVICE TYPE ...
&WKDEV2 SETC '20B0' ... IS 3340
AGO .WRKFDEV_X CHECK NEXT PARAMETER AG70
.WRKFDEV_O3 ANOP AG70
&WKDEV1 SETA 7 DEVICE TYPE ...
&WKDEV2 SETC '4A7D' ... IS 3350
.WRKFDEV_X ANOP AG70
*****16JM70
.*
.* &WRKFNAM II/D,M
.*
*****16JM70
AIF ('&WRKFNAM' EQ '').WRKFNAM_X AG70
AIF (&OSDOS21).WRKFNAM_V PARAMETER OK FOR VSE 2.1 + JM70
MNOTE 8,'PARAMETER WRKFNAM NOT AVAILABLE FOR ENVIRONMENT &PREN.
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.' JM70
AGO .WRKFNAM_X 8JM80
.WRKFNAM_V ANOP JM70
AIF ('&PRODUCT' NE '60').WRKFNAM_C AG70
MNOTE 4,'PARAMETER WRKFNAM NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .WRKFNAM_X CHECK NEXT PARAMETER AG70
.WRKFNAM_C ANOP
AIF ('&WRKFNAM' EQ 'IJSYS04').WRKFNAM_X AG70
AIF (K'&WRKFNAM LT 8).WRKFNAM_S AG70
&CTKN SETA K'&WRKFNAM

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Figure 44 Sample DYLINSTL Member (Page 49 of 56)

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MNOTE 8,'PARAMETER WRKFNAM - &WRKFNAM - EXCEEDS 7 CHARACTERS.'
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.'
AGO .WRKFNAM_X CHECK NEXT PARAMETER AG70
.WRKFNAM_S ANOP AG70
&DOSWRK SETC '&WRKFNAM' ALTERNATE WORK FILE NAME
.WRKFNAM_X ANOP AG70
.*****16JM70
.*
.* &WRKFSYS II/D,M
.*
.******
AIF ('&WRKFSYS' EQ '').WRKFSYS_X AG70
AIF (&OSDOS21).WRKFSYS_C PARAMETER OK FOR VSE 2.1 + JM70
MNOTE 8,'PARAMETER WRKFSYS NOT AVAILABLE FOR ENVIRONMENT &PREN.
V.' DM70
MNOTE 8,' THE OPTION IS IGNORED.' JM70
AGO .WRKFSYS_X 8JM80
.WRKFSYS_C ANOP JM70
AIF ('&PRODUCT' NE '60').WRKFSYS_V AG70
MNOTE 4,'PARAMETER WRKFSYS NOT AVAILABLE FOR &CPFX.SIXTY X
THE OPTION IS IGNORED.' JB60
AGO .WRKFSYS_X CHECK NEXT PARAMETER AG70
.WRKFSYS_V ANOP AG70
AIF ('&WRKFSYS' EQ '4').WRKFSYS_X AG70
AIF ('&WRKFSYS' EQ 'N').WRKFSYS_T AG70
MNOTE 8,'PARAMETER WRKFSYS VALUE IS INVALID - &WRKFSYS..'
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.'
AGO .WRKFSYS_X CHECK NEXT PARAMETER AG70
.WRKFSYS_T ANOP AG70
AIF ('&WRKFSYS' LT '256').WRKFSYS_A AG70
MNOTE 8,'PARAMETER WRKFSYS OPTION - &WRKFSYS - EXCEEDS 255.'
MNOTE 8,' THE DEFAULT VALUE WILL BE USED.'
AGO .WRKFSYS_X CHECK NEXT PARAMETER AG70
.WRKFSYS_A ANOP AG70
&WRKSYS# SETC '&WRKFSYS' SET ALTERNATE WORK FILE SYS #
.WRKFSYS_X ANOP
.*****07JM60
.* 07JM60
.* &XREF$ II/A 07JM60
.* 07JM60
.******07JM60
AIF ('&XREF$' EQ '').XREF$_X 07JM60
AIF ('&PRODUCT' NE '60').XREF$_V 07JM60
MNOTE 4,'PARAMETER XREF$ NOT AVAILABLE FOR &CPFX.SIXTY. X
THE OPTION IS IGNORED.' JB60
AGO .XREF$_X CHECK NEXT PARAMETER 07JM60
.XREF$_V ANOP 07JM60
AIF ('&XREF$' EQ 'Y').XREF$_S 07JM60
AIF ('&XREF$' EQ 'N').XREF$_X 07JM60
MNOTE 8,'PARAMETER XREF$ OPTION - &XREF$ - IS INVALID.' 07JM60
MNOTE 8,' THE OPTION IS IGNORED.' 07JM60
AGO .XREF$_X CHECK NEXT PARAMETER 07JM60
.XREF$_S ANOP 07JM60
&CF9(1) SETB 1 XREF DATANAMES STARTING W/ $ 07JM60
.XREF$_X ANOP 07JM60
.*****163029
.* 3029
.* &ZDIVAB A/A 3029
.* Y = ABEND IF DIVIDE BY ZERO (BYPASS FIXUP) JM70
.* R = DO FIXUP, SET RETURN CODE = 4 JM70
.******163029
AIF ('&ZDIVAB' EQ '').ZDIVAB_X 3029
AIF ('&ZDIVAB' EQ 'Y').ZDIVAB_A AG70
AIF ('&ZDIVAB' EQ 'R').ZDIVAB_R AG70
MNOTE 8,'PARAMETER ZDIVAB OPTION - &ZDIVAB - IS INVALID.' 3029
MNOTE 8,' THE OPTION IS IGNORED.' 3029
AGO .ZDIVAB_X 3029
.ZDIVAB_R ANOP AG70
&C4(4) SETB 1 RC = 4 FOR ZERO DIVIDE JM70
AGO .ZDIVAB_X 3029
.ZDIVAB_A ANOP AG70
&C4(3) SETB 1 ABEND FOR ZERO DIVIDE 3029
.ZDIVAB_X ANOP
AIF ('&SECT' EQ 'DSECT').DUMMY
DYLPCPS CSECT
AGO .SECTION

```

Figure 44 Sample DYLINSTL Member (Page 50 of 56)

```

.DUMMY ANOP
DYLPCPS DSECT
.SECTION ANOP
*****
*
* DEFINE ITEMS COMMON TO ALL OPERATING ENVIRONMENTS
*
*****
      DS      0H
      AIF     (NOT &OSOS) .CULEN1
CUTOTLEN DC   AL2 (COLEN)          TOTAL MODULE LENGTH, MVS          JM70
      AGO     .CULEND
      .CULEN1 ANOP
CUTOTLEN DC   AL2 (CDLEN)          TOTAL MODULE LENGTH, DOS
      .CULEND ANOP
      AIF     ('&PRODUCT' NE 'II') .CULEND1
&PD282 SETB  1                      JM64
      AGO     .CULENDX
      .CULEND1 ANOP
      AIF     ('&PRODUCT' NE '80') .CULEND2
&PD280 SETB  1                      JM64
      AGO     .CULENDX
      .CULEND2 ANOP
      AIF     ('&PRODUCT' NE '70') .CULEND3
&PD270 SETB  1                      JM64
      AGO     .CULENDX
      .CULEND3 ANOP
&PD260 SETB  1                      JM64
      .CULENDX ANOP
CUCOMLEN DC   AL2 (CUCOMMON)        COMMON OPERATING ENVIRONMENT LENGTH
      AIF     ((&OSDOS) OR          X
              (&OSDOS21)) .CUDOS
      CUENVLEN DC AL2 (CUOSPEC)      MVS/CMS ENVIRONMENT LENGTH
      AGO     .CUENVND
      .CUDOS ANOP
CUENVLEN DC   AL2 (CUDOSPEC)        DOS ENVIRONMENT LENGTH
      .CUENVND ANOP
CUMODNAM DC   C'====> DYLPCPS RELEASE 6.0 <===='          JM60
CUCOBECDC DC   C'&COBED' .          ALTERNATE COBOL NUMERIC EDIT CODE
CUMXDNLN DC   AL1 (&MAXDN) .        DATA NAME MAXIMUM LENGTH
CUPGMODE DC   B'&PMS.&PMU.&PMR.&PMA.&PME.&PM2.00' .PROGRAM MODE
CUPMS EQU     X'80'                  STRUCTURED MODE
CUPMU EQU     X'40'                  USERDEFAULT MODE
CUPMR EQU     X'20'                  REFERENCED NAMES CROSS REFERENCED
CUPMA EQU     X'10'                  ALL NAMES CROSS REFERENCED
CUPME EQU     X'08'                  NO EXPONENTIATION MODE
CUPM2 EQU     X'04'                  STRUCTURED2 MODE          JM64
CUPR2 EQU     X'02'                  ** RESERVED **          JM64
CUPR3 EQU     X'01'                  ** RESERVED **          JM64
CUPGLINE DC   PL2 '&LINES' .         SYSPRINT LINES PER PAGE
CUSRTNAM DC   CL8 '&SRTNAM' .        NAME OF CALLED SORT PROGRAM
CUDEC9 DC    C'&DEC9' .             FORCE 9 DEC DIGITS; MESSAGE STATUS
CUNAMHDR DC   CL60 '&BANNER' .       BANNER LINE HEADER IDENTIFIER
      DC     CL40 ' '                PAD BANNER LINE
      AIF     ((&OSDOS) OR          (&OSDOS21)) .VSPCDS          DM70
CUPROD DC     CL53 '&PRDCODE' .      PRODUCT CODE
      AGO     .PCDONX
      .VSPCDS ANOP
CUPROD DC     CL53 ' '
      ORG     CUPROD
      AIF     ('&PCDE(1)' EQ '') .PCDON
      DC     C'&PCDE(1)'
      AIF     ('&PCDE(2)' EQ '') .PCDON
      DC     C'&PCDE(2)'
      AIF     ('&PCDE(3)' EQ '') .PCDON
      DC     C'&PCDE(3)'
      AIF     ('&PCDE(4)' EQ '') .PCDON
      DC     C'&PCDE(4)'
      AIF     ('&PCDE(5)' EQ '') .PCDON
      DC     C'&PCDE(5)'
      AIF     ('&PCDE(6)' EQ '') .PCDON
      DC     C'&PCDE(6)'
      AIF     ('&PCDE(7)' EQ '') .PCDON
      DC     C'&PCDE(7)'
      AIF     ('&PCDE(8)' EQ '') .PCDON
      DC     C'&PCDE(8)'

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Figure 44 Sample DYLINSTL Member (Page 51 of 56)

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AIF ('&PCDE(9)' EQ '') .PCDON 3034
DC C'&PCDE(9)' 3034
AIF ('&PCDE(10)' EQ '') .PCDON 3034
DC C'&PCDE(10)' 3034
AIF ('&PCDE(11)' EQ '') .PCDON 3034
DC C'&PCDE(11)' 3034
AIF ('&PCDE(12)' EQ '') .PCDON 3034
DC C'&PCDE(12)' 3034
AIF ('&PCDE(13)' EQ '') .PCDON 3034
DC C'&PCDE(13)' 3034
AIF ('&PCDE(14)' EQ '') .PCDON JM70
DC C'&PCDE(14)' JM70
.PCDON ANOP 3034
ORG CUPROD+53 JM70
.PCDONX ANOP 3034
DC CL03' ' PAD PRODUCT CODE JM70
CUOPSYS DC B'&OSOS.&OSDOS.&OSDOS21.&OSCMS.&OSFUJI.000' JM64
CUOSOS EQU X'80' OS (MVS) OPERATING SYSTEM
CUOSDOS EQU X'40' VSE OPERATING SYSTEM JM70
CUOSDOS2 EQU X'20' VSE OPERATING SYSTEM (2.1 +) JM70
CUOSCMS EQU X'10' CMS OPERATING SYSTEM PRODUCT JM64
CUOSFUJI EQU X'08' FUJITSU OPERATING SYSTEM JM64
CUOSR3 EQU X'04' ** RESERVED ** JM64
CUOSR4 EQU X'02' ** RESERVED ** JM64
CUOSR5 EQU X'01' ** RESERVED ** JM64
CUFLAG1 DC B'&C1(1) .&C1(2) .&C1(3) .&C1(4) .&C1(5) .&C1(6) .&C1(7) .&C1(8)
)'
CUDPCBNM EQU X'80' ALLOW DUPLICATE COBOL DATA NAMES
CUSUP182 EQU X'40' SUPPRESS MESSAGE DYL-182W
CUSQLIF2 EQU X'20' NESTED IF STATEMENTS, SQL INTERFACE
CUSUPQ EQU X'10' SUPPRESS Q% VARIABLES FROM XREF
CUDYLVVPV EQU X'08' NO WARNING, VAR NAMES BEGIN "DYL"
CUMNAME# EQU X'04' MODULE NAMES ALLOW NUMERIC FIRST CHAR
CURESWRD EQU X'02' RESERVED WORDS MAY BE DATA NAMES
CUHDRON EQU X'01' CUSTOMER BANNER LINE REQUESTED
CUFLAG2 DC B'&C2(1) .&C2(2) .&C2(3) .&C2(4) .&C2(5) .&C2(6) .&C2(7) .&C2(8)
)'
CUDATRAN EQU X'80' NO DATA TRANSLATION
CUPRINT0 EQU X'40' ZERO PRINTS "0", A, B EDIT CODES
CUSSMASK EQU X'20' CANADIAN SOCIAL INSURANCE EDIT MASK
CUNUMCH EQU X'10' ONLY ZONED DECIMAL FOR "IF NUMERIC"
CUPRTERR EQU X'08' OPTION PRINTER/PRINTER
CURDONLY EQU X'04' CREATE READ ONLY VERSION
CURETCDE EQU X'02' CALLED ROUTINES ACCESS RETURN CODES
CUSTRGO EQU X'01' ALLOW GOTO IN STRUCTURED MODE
CUFLAG3 DC B'&C3(1) .&C3(2) .&C3(3) .&C3(4) .&C3(5) .&C3(6) .&C3(7) .&C3(8)
)'
CUNOVSI0 EQU X'80' NO VSAM I/O
CUNOVSOI EQU X'40' NO VSAM OUTPUT AND I/O
CUOUTNUL EQU X'20' CREATE NULL OUTPUT FILE
CUERNUM EQU X'10' EUROPEAN NUMERIC EDITING ALLOWED
CUD2PLN EQU X'08' DB2 CAT PLAN ID NAME PRESENT
CUD2SYS EQU X'04' DB2 CAT SYS ID NAME PRESENT
CUDB2PLN EQU X'02' DB2 DB PLAN ID NAME PRESENT
CUDB2SYS EQU X'01' DB2 DB SYS ID NAME PRESENT
C8FLAG DC B'&C8(1) .&C8(2) .&C8(3) .&C8(4) .&C8(5) .&C8(6) .&C8(7) .&C8(8)
)'
C8LSTMAX EQU X'80' LIST STATEMENT MAXIMUM ALLOWS 40
C8NODIG EQU X'40' OPTION NOPRINTDIGITS
CUSTPLAN EQU X'20' STATIC PLAN ID NAME PRESENT 22JB80
CUSTSSID EQU X'10' STATIC SYS ID NAME PRESENT 22JB80
CUSGLSEL EQU X'08' SINGLE SELECT ALLOW 1 ROW ONLY 22JB80
CUSTMSG EQU X'04' NO STATIC DB2 AUTO ERROR MSG 22JB80
CUDB2NUL EQU X'02' COPYDB2 CREATES NULL INDICATORS22JB80
C8FLR6 EQU X'01' ** RESERVED ** JM64
CIIFLAG DC B'&CI(1) .&CI(2) .&CI(3) .&CI(4) .&CI(5) .&CI(6) .&CI(7) .&CI(8)
)'
CILTR0 EQU X'80' SAME AS CUPRINT0 FOR LETTER WRITER
CIMATCH EQU X'40' MATCH PROCESSING "SETREAD ORIGINAL"
CILTFR EQU X'20' LTR WRTR 'FROM' NO RANGE
CIEXCEL EQU X'10' DEFAULT OPTION EXCEL 3012
CIIFLR2 EQU X'08' ** RESERVED ** JM64
CIIFLR3 EQU X'04' ** RESERVED ** JM64
CIIFLR4 EQU X'02' ** RESERVED ** JM64
CIIFLR5 EQU X'01' ** RESERVED ** JM64
CUACCTNO DC CL8' ' ** AVAILABLE **

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Figure 44 Sample DYLINSTL Member (Page 52 of 56)

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          DC      CL2' '          ** AVAILABLE **
CUSITENO DC      CL6'&SITENUM'    CUSTOMER REFERENCE NUMBER
          DC      CL4' '          PAD CUSTOMER REFERENCE #
CUDB2PID DC      CL8'&DB2CPID'    USER SUPPLIED DB2 CAT PLAN ID NAME
CUDB2SID DC      CL8'&DB2CSID'    USER SUPPLIED DB2 CAT SYS ID NAME
CUD2DEC9 DC      C'&D2DEC9'      ALLOW DB2 > 9 DEC DIGITS
CUPRXX  DC      CL20' '          RESERVED
CUPGLINR DC      PL2'&LINER'      REPORT LINES PER PAGE
CUDB2PNM DC      CL8'&DB2PID'    USER SUPPLIED DB2 DB PLAN ID NAME
CUDB2SNM DC      CL8'&DB2SID'    USER SUPPLIED DB2 DB SYS ID NAME
CUDB2AM  DC      CL8' '          ** RESERVED **
CUFLAG4 DC      B'&C4(1) .&C4(2) .&C4(3) .&C4(4) .&C4(5) .&C4(6) .&C4(7) .&C4(8)
          )'
          )'
CUOPACTV EQU     X'80'          PRINT OPTIONS ACTIVE PAGE
CUCOB2  EQU     X'40'          COBOL II NORES
CUDIV0  EQU     X'20'          ABEND IF DIVIDE BY 0
CUDIVRC EQU     X'10'          RC 4 IF DIVIDE BY 0
CUDIVORG EQU     X'08'          OPTION OVERRIDE = ZDIVORG
CUDIVABO EQU     X'04'          OPTION OVERRIDE = ZDIVAB
CUDIVRCO EQU     X'02'          OPTION OVERRIDE = ZDIVRC
CUCMPERR EQU     X'01' (WAS COCPERR) RC NOT ABEND ON COMP. ERROR
CUPID1  DC      B'&PD282 .&PD280 .&PD270 .&PD260 .0000'  PROD. ID FLG
CUPIDII EQU     X'80'          VISION:RESULTS
CUPID80 EQU     X'40'          VISION:EIGHTY
CUPID70 EQU     X'20'          ** RESERVED **
CUPID60 EQU     X'10'          VISION:SIXTY
CUPIDR1 EQU     X'08'          ** RESERVED **
CUPIDR2 EQU     X'04'          ** RESERVED **
CUPIDR3 EQU     X'02'          ** RESERVED **
CUPIDR4 EQU     X'01'          ** RESERVED **
CUPID2  DC      XL1'00'        PRODUCT ID FLAG TWO
CUPID2R1 EQU     X'80'          ** RESERVED **
CUPID2R2 EQU     X'40'          ** RESERVED **
CUPID2R3 EQU     X'20'          ** RESERVED **
CUPID2R4 EQU     X'10'          ** RESERVED **
CUPID2R5 EQU     X'08'          ** RESERVED **
CUPID2R6 EQU     X'04'          ** RESERVED **
CUPID2R7 EQU     X'02'          ** RESERVED **
CUPID2R8 EQU     X'01'          ** RESERVED **
CU6PRTE DC      CL1'&PRTER60'   VISION:SIXTY PRINT ERROR OPTION
CUVMVV  DC      CL2' '          ** RESERVED **
CUFEATR DC      2F'0'          ** RESERVED **
CUILBAD DC      F'0'          COB/LE ENVIRON MODULE
CUSRTAD DC      F'0'          ADDR SORT (FUTURE)
CUPCMXRL DC      H'0'          MAX LRECL ON ANY PCFILE
CUFLAG5 DC      B'&C5(1) .&C5(2) .&C5(3) .&C5(4) .&C5(5) .&C5(6) .&C5(7) .&C5(8)
          )'
          )'
CUVSCAT EQU     X'80'          DEFAULT TO USE VSAM CATALOG
CUVSCATO EQU     X'40'          OPTION OVERRIDE NOVSMACAT
CUETIMED EQU     X'20'          DYLETIME USE COLON
CUETIMEO EQU     X'10'          OPTION OVERRRIDE TIMEDOT/COLON
CUNOTOT EQU     X'08'          DEFAULT 'OPTION NOTOTAL'
CUQLF  EQU     X'04'          DEFAULT 'OPTION QLF'
CUSTOQUI EQU     X'02'          STOPALL/QUITALL ISSUED
CUERUDAT EQU     X'01'          EURO DATE FORMAT (WAS COERUDAT)
CUFLAG6 DC      B'&C6(1) .&C6(2) .&C6(3) .&C6(4) .&C6(5) .&C6(6) .&C6(7) .&C6(8)
          )'
          )'
CUPRTXCT EQU     X'80'          DYLINSTL PRTCTRS=Y|N
CUPRTXCO EQU     X'40'          OVERRIDE PRTCTRS
CUEXPR  EQU     X'20'          PRINT ERROR
CUEXPRO EQU     X'10'          OPTION OVERRIDE PRINT ERROR
CU4YEAR EQU     X'08'          DYLINSTL SPECIFIED DYL4YR
CU4YEARO EQU     X'04'          OPTION OVERRIDE OF DYL4YR
CULEON  EQU     X'02'          LE ENVIRONMENT WANTED
CULEOVER EQU     X'01'          LE ENVIRONMENT OVERRIDE
CULCORE DC      F'&LBUF'        LIBRARIAN STORAGE SIZE
CUPCORE DC      F'&PBUF'        PANVALET STORAGE SIZE
CUMXDIOU DC      H'&MAXDIOU'    MAX # DYLIU/PICNSAVE IN PROGRAM
*
CENTNEW DC      CL2'&CENTNW'    NEW CENTURY CUTOFF BETWEEN DATES
CUCNTRY1 DC      CL2'&CENT1'    CENTRY1 FOR DYLCENTRY1
CUCNTRY2 DC      CL2'&CENT2'    CENTRY2 FOR DYLCENTRY2
          AIF      (&CURL) .CURCHEX
CURNCY  DC      CL1'&CURVAL'    CURRENCY SYMBOL FOR CURNCY
          AGO      .CUCRNYO
          .CURCHEX ANOP

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Figure 44 Sample DYLINSTL Member (Page 53 of 56)

CURNCY	DC	XL1'&CURVAL'	CURRENCY SYMBOL FOR CURNCY	JB70
.CUCRNYO	ANOP			JB70
CURNCYO	DC	CL1' '	OPTION OVERRIDE FOR CURNCY	JB70
CUTED4	DC	CL10' '	4-DIGIT YEAR EXECUTION RUN DATE	JM70
CUFLAG7	DC	B'&C7(1) .&C7(2) .&C7(3) .&C7(4) .&C7(5) .&C7(6) .&C7(7) .&C7(8)		6DV80
)'		6DV80
CUSYSBLK	EQU	X'80'	SYSTEM DETERMINED BLOCK SIZE	6DV80
CUSYSBKO	EQU	X'40'	OPTION OVERRIDE BLOCK SIZE	6DV80
CUTOMSGR	EQU	X'20'	REROUTE TIMEOUT MESSAGE	8DV80
CUNUMPD	EQU	X'10'	IF NUMERIC FOR PD FIELDS	15DV80
CUNUMPDO	EQU	X'08'	OVERRIDE IF NUMERIC FOR PD FLDS	DV80
CUNUMCHO	EQU	X'04'	OVERRIDE NUMCHAR OPTION	15DV80
CUTABARE	EQU	X'02'	TABLE/ARRAY ABOVE LINE	16DV80
CURNCLP	EQU	X'01'	CURNCY LPARM PROCESSED	13266480JM
CURCHAR	DC	CL8'&RCHAR'	DEFAULT TO OPERATOR/SYSLOG	8DV80
CURVAL	DC	CL2'&RVAL'	DEFAULT TO ROUTE CODE 11	8DV80
CUDELIM	DC	CL5'&DLMVAR'		02JM80
CUFLAG8	DC	B'&CF8(1) .&CF8(2) .&CF8(3) .&CF8(4) .&CF8(5) .&CF8(6) .&CF8(7)		02JM80
) .&CF8(8) '		02JM80
CUDLM	EQU	X'80'	'REPORT' DELIMITER REQUESTED	02JM80
CUDLMOVR	EQU	X'40'	'REPORT' DELIMITER OVERRIDE	02JM80
CUCBXSIN	EQU	X'20'	PROCESS COBOL EXTERNAL SIGN	11JM60
CUCBXSNO	EQU	X'10'	OVERRIDE COBOL EXT. SIGN USE	11JM60
COEXCPAT	EQU	X'08'	PRINT EXCEL PATCHES	07JM60
COEXOPAT	EQU	X'04'	OVERRIDE EXCLPAT	07JM60
CURPTXPG	EQU	X'02'	ALLOW/SUPPRESS EXTRA 'EJECT' PGS	JM60
CUASAPG	EQU	X'01'	DEFAULT/NOT ASA ON ALL REPORTS	07JM60
CUSTPLNM	DC	CL8'&STATPID'	USER SUPPLIED STATIC PLAN NAME	22JB80
CUSTSSNM	DC	CL8'&STATSID'	USER SUPPLIED STATIC SSID NAME	22JB80
CUDELIMO	DC	CL1' '	'REPORT' DELIMITER OVERRIDE	02JM80
CUFLAG9	DC	B'&CF9(1) .&CF9(2) .&CF9(3) .&CF9(4) .&CF9(5) .&CF9(6) .&CF9(7)		07JM60
) .&CF9(8) '		07JM60
CUXREF\$	EQU	X'80'	Y/N XREF DN STARTING W/ \$	07JM60
CUVSMGSF	EQU	X'40'	Y/N PRINT DYI-1161W VSAM MSG	07JM60
CUDLMFST	EQU	X'20'	Y/N SET DELIM CHAR ON 1ST FLD	07JM60
CUCOBMSW	EQU	X'10'	Y/N SKIP COBOL WRNG MSGS	07JM60
CU6MWRK	EQU	X'08'	260 M/R WORKFILE NAME CODED	07JM60
CUEDSUP	EQU	X'04'	Y/N SUPPRESS EDIT BLNK	13617973JM60
CUVDUPAB	EQU	X'02'	Y/N VSAM DUP KEY - U300	07RH60
CULPPUNL	EQU	X'01'	Y/N UNLIMIT LINES PER PAGE	07RH60
CUKWDISA	DC	AL1(&CTKWD)	COUNT OF USER DISABLED K/W	07JM60
CUFLAGA	DC	B'&CFA(1) .&CFA(2) .&CFA(3) .&CFA(4) .&CFA(5) .&CFA(6) .&CFA(7)		07RH60
) .&CFA(8) '		07RH60
CUEDP1ZE	EQU	X'80'	Y/N SINGLE 0 - EDIT CODE P	07RH60
CURANPCT	EQU	X'40'	Y/N RANDOM PERCENTAGE RADOMIZER	08JB60
CUCOBAP	EQU	X'20'	Y/N COBOL SINGLE APOSTROPHE	07RH60
CUCOBAPO	EQU	X'10'	Y/N COBOL SINGLE APOS.OVERRIDE	07RH60
CUEDALGN	EQU	X'08'	Y/N EDIT CODE ALIGNMENT	07JB60
CUFLAGR6	EQU	X'04'	** RESERVED **	07RH60
CUFLAGR7	EQU	X'02'	** RESERVED **	07RH60
CUFLAGR8	EQU	X'01'	** RESERVED **	07RH60
	DC	CL2' '	** AVAILABLE **	07JM60
CU6MWNAM	DC	CL8'&MRWK60'	USER DDNAME FOR VISION:SIXTY M/R WORK	
CUCOMMON	EQU	*-CUTOTLEN	COMMON ENVIRONMEMT LENGTH	
CUPATCH	DC	(1024-CUCOMMON) X'00' .ZERO FILLED PATCH AREA		
	ORG	CUPATCH		07JM60
CUKWDL1	DC	AL1(&KWDL1)		07JM60
CUKWDN1	DC	C'&KWD1'		07JM60
CUKWDL2	DC	AL1(&KWDL2)		07JM60
CUKWDN2	DC	C'&KWD2'		07JM60
CUKWDL3	DC	AL1(&KWDL3)		07JM60
CUKWDN3	DC	C'&KWD3'		07JM60
CUKWDL4	DC	AL1(&KWDL4)		07JM60
CUKWDN4	DC	C'&KWD4'		07JM60
CUKWDL5	DC	AL1(&KWDL5)		07JM60
CUKWDN5	DC	C'&KWD5'		07JM60
CUKWDL6	DC	AL1(&KWDL6)		07JM60
CUKWDN6	DC	C'&KWD6'		07JM60
CUKWDL7	DC	AL1(&KWDL7)		07JM60
CUKWDN7	DC	C'&KWD7'		07JM60
CUKWDL8	DC	AL1(&KWDL8)		07JM60
CUKWDN8	DC	C'&KWD8'		07JM60
CUKWDL9	DC	AL1(&KWDL9)		07JM60
CUKWDN9	DC	C'&KWD9'		07JM60
CUKWDL10	DC	AL1(&KWDL10)		07JM60
CUKWDN10	DC	C'&KWD10'		07JM60

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CUKWDL11 DC AL1 (&KWDL11) 07JB60
CUKWDN11 DC C'&KWD11' 07JB60
CUKWDL12 DC AL1 (&KWDL12) 07JB60
CUKWDN12 DC C'&KWD12' 07JB60
CUKWDL13 DC AL1 (&KWDL13) 07JB60
CUKWDN13 DC C'&KWD13' 07JB60
CUKWDL14 DC AL1 (&KWDL14) 07JB60
CUKWDN14 DC C'&KWD14' 07JB60
CUKWDL15 DC AL1 (&KWDL15) 07JB60
CUKWDN15 DC C'&KWD15' 07JB60
CUKWDL16 DC AL1 (&KWDL16) 07JB60
CUKWDN16 DC C'&KWD16' 07JB60
CUKWDL17 DC AL1 (&KWDL17) 07JB60
CUKWDN17 DC C'&KWD17' 07JB60
CUKWDL18 DC AL1 (&KWDL18) 07JB60
CUKWDN18 DC C'&KWD18' 07JB60
CUKWDL19 DC AL1 (&KWDL19) 07JB60
CUKWDN19 DC C'&KWD19' 07JB60
CUKWDL20 DC AL1 (&KWDL20) 07JB60
CUKWDN20 DC C'&KWD20' 07JB60
AIF (('SECT' EQ 'CSECT') AND
      (&OSDOS) OR (&OSDOS21)) .DOSECT DM70
SPACE 3
*****
* MVS AND CMS SPECIFIC OPTIONS *
*****
ORG CUTOTLEN+1024 ENVIRONMENT SPECIFIC OPTIONS LOCATION
DS 0F
COGETMAX DC F'&GETMX' . MAXIMUM GETMAIN DEFAULT VALUE
COSRTMEM DC F'&SMIN' . SORT MINIMUM STORAGE VALUE
DC F'&SMAX' . SORT MAXIMUM STORAGE VALUE
DC F'&SEQMAX' . SORT "CORE=MAX" STORAGE VALUE
DC F'&SRMAX' . SORT MAXIMUM RESET VALUE
COCMPWRK DC F'&CMPWRK' COMPILER WORK AREA SIZE
COFREE DC F'&FREE' . MEMORY RETURNED AFTER COMP GETMAIN
DC H'0' . ** RESERVED ** (WAS COMXDIOU) JM70
COSRTDEV DC CL8'&SRTDEV' . DYNAMIC SORT ALLOCATION DEVICE NAME
DC AL1(1+&SDEV9) . DEVICE NAME LENGTH + 10
DC AL1(&SDEV9) . DEVICE NAME LENGTH + 9
COCFLAG DC B'&O(1) .&O(2) .&O(3) .&O(4) .&O(5) .&O(6) .&O(7) .&O(8)' JM70
COPDREPO EQU X'80' (WAS COCPERR) OPTION OVERRIDE PDSREPL JM70
COCFLR1 EQU X'40' (WAS COEURDAT) ** RESERVED ** 09JM80
CONODEL EQU X'20' DON'T DELETE LOAD MODULES
CONOPIO EQU X'10' NO PARTITIONED DATA SET WRITE
COSRTDYN EQU X'08' ALLOW DYNAMIC SORT ALLOCATION
COSRXADD EQU X'04' ACCESS USER 31-BIT SUBROUTINES DM70
COCFL8A1 EQU X'02' ** AVAILABLE - CO6MWRK JM60
COPDREPD EQU X'01' DEFAULT PDS REPL 'A' FOR ADD JM70
COI8FLAG DC B'&OI(1) .&OI(2) .&OI(3) .&OI(4) .&OI(5) .&OI(6) .&OI(7) .&OI(8)
) ' 10JM60
COI8ASA EQU X'80' ELIMINATE GHOST LAST LINE, ASA REPORT
CONVDR EQU X'40' ENDEVOR ENVIRONMENT SUPPLIED 10JM60
CONVDRX EQU X'20' ENDEVOR ENVIRONMENT OVERRIDE 10JM60
CORPTDDN EQU X'10' OVERRIDE REPORT DD 07JM60
COI8FLR4 EQU X'08' ** RESERVED ** JM64
CONDVCOM EQU X'04' ENDEVOR ATTRIB CMTS REQUESTED 10JM60
CONDVCMX EQU X'02' OVERRIDE CONDVCOM 10JM60
COI8FLR7 EQU X'01' ** RESERVED ** JM64
COFREEZD DC CL8'&FRZDDN' DEFAULT TO NON-STD FREEZE DDNAME JM70
COFREEZO DC CL8' ' OVERRIDE NON-STD FREEZE DDNAME JM70
COIQBDEF DC CL8'&BATTIQ' DEFAULT IQBATCH LOADMOD NAME JM70
COIQBNAM DC CL8' ' OVERRIDE IQBATCH LOADMOD NAME JM70
COCFLAG1 DC B'&O1(1) .&O1(2) .&O1(3) .&O1(4) .&O1(5) .&O1(6) .&O1(7) .&O1(8)
) ' JM60
COSRTABD EQU X'80' DEFAULT TO RC8 FOR SORT TERM. JM70
COSRTABO EQU X'40' OVERRIDE DEFAULT SORT TERM RC JM70
COIGZ EQU X'20' COBII ENV SETUP WANTED 7JM70
COIGZA EQU X'10' COBII ENVIRON ACTIV JM70
COIGZU EQU X'08' USER CODED COBII ENVIRON CALL JM70
COFL1R4 EQU X'04' ** RESERVED ** JM70
COFL1R5 EQU X'02' ** RESERVED ** JM70
COFL1R6 EQU X'01' ** RESERVED ** JM70
CONDVENV DC CL8'&NDVRON' ENDEVOR ENVIRONMENT VALUE 10JM60
CONDVENO DC CL8' ' ENDEVOR ENVIRONMENT OVERRIDE 10JM60

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Figure 44 Sample DYLINSTL Member (Page 55 of 56)

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CONDVSY DC CL8' ' ENDEVOR SYSTEM VALUE 10JM60
CONDVSB DC CL8' ' ENDEVOR SUBSYSTEM VALUE 10JM60
CONDVTYP DC CL8' ' ENDEVOR TYPE VALUE 10JM60
CONDVSTG DC CL1' ' ENDEVOR STAGE ID VALUE 10JM60
DC CL1' ' ** RESERVED ** 07RH60
CO280RDD DC CL8'&RPTDN' USERS REPORT DDNAME 07JM60
COSLACK DC 32F'0' SLACK BYTES FOR GROWTH - MVS/CMS
COSLACKL EQU *-COSLACK LENGTH OF MVS/CMS SLACK AREA JM70
COLEN EQU *-CUTOTLEN MVS/CMS TOTAL MODULE LENGTH
CUOSPEC EQU *-(CUTOTLEN+1024) MVS/CMS SPECIFIC LENGTH
AIF ('&SECT' EQ 'DSECT') .DOSECT
MEXIT
.DOSECT ANOP
SPACE 3
*****
*
* DOS SPECIFIC OPTIONS
*
*****
ORG CUTOTLEN+1024 ENVIRONMENT SPECIFIC OPTIONS LOCATION
DS 0F
CDSUP452 DC F'&CONDOR' . "CONDOR" LIBRARY BUFFER SIZE
CDWKFSYS DC AL2(&WRKSYS#) . WORK FILE SYS NUMBER
CDCPYLB DC C'&SUBLB' . (ALTERNATE) COPY SUBLIBRARY
CDWKFDEV DC AL1(&WKDEV1) . WORK FILE ...
DC AL2(X'&WKDEV2') . ... DEVICE TYPE
CDWKFNAM DC CL7'&DOSWRK' . WORK FILE FILE NAME
CDFLAG1 DC B'&D(1) .&D(2) .&D(3) .&D(4) .&D(5) .&D(6) .&D(7) .&D(8)'
CDEXFLD EQU X'80' VSE SYSTEMS INIT SYSDATE/SYSPARM JM70
CDNOTAP# EQU X'40' NO SYS NUMBER, VSE TAPES JM70
CDFLR1 EQU X'40' ** RESERVED ** JM64
CDFLR2 EQU X'20' ** RESERVED ** JM64
CDFLR3 EQU X'10' ** RESERVED ** JM64
CDFLR4 EQU X'08' ** RESERVED ** JM64
CDFLR5 EQU X'04' ** RESERVED ** JM64
CDFLR6 EQU X'02' ** RESERVED ** JM64
CDFLR7 EQU X'01' ** RESERVED ** JM64
CDMATCH DC CL2'&DOSMACH' . USER MATCH ROUTINE MEMORY SIZE
CD21FLAG DC B'&M(1) .&M(2) .&M(3) .&M(4) .&M(5) .&M(6) .&M(7) .&M(8)' DM70
CD21RC15 EQU X'80' REGISTER 15 CONTAINS RETURN CODE
CDDTFD EQU X'40' DEFAULT VSEATTR = D DM70
CDODTFD EQU X'20' OVERRIDE DISK DTF TYPE DM70
CDDTFT EQU X'10' DEFAULT VSEATTR = T DM70
CDODTFT EQU X'08' OVERRIDE TAPE DTF TYPE DM70
CDSRXADD EQU X'04' ACCESS USER 31-BIT SUBROUTINES DM70
CDSRADD EQU X'02' OVERRIDE FOR 31-BIT ENTRY DM70
CD2FLR7 EQU X'01' ** RESERVED ** JM64
CD21FLG2 DC B'&M1(1) .&M1(2) .&M1(3) .&M1(4) .&M1(5) .&M1(6) .&M1(7) .&M1(8)
) ' JM60
CD21L0D EQU X'80' DYLINSTL CDLOAD REQUESTED JM70
CD21L0DO EQU X'40' OPTION OVERRIDE OF CDLOAD JM70
CD21F2R3 EQU X'20' ** RESERVED ** JM70
CD21F2R4 EQU X'10' ** RESERVED ** JM70
CD21F2R5 EQU X'08' ** RESERVED ** JM70
CD21F2R6 EQU X'04' ** RESERVED ** JM70
CD21F2R7 EQU X'02' ** RESERVED ** JM70
CD21F2R8 EQU X'01' ** RESERVED ** JM70
DC H'0' ** RESERVED ** JM70
CDCORE DC F'&CBUF' CONDOR BUFFER SIZE JM70
CDPANSNU DC CL3'&PANSNU' DEFAULT TO SYS026 108DV80
CDLIBSNU DC CL3'&LIBSNU' DEFAULT TO SYS026 108DV80
CDPANTYP DC CL4'&PANTYP' DEFAULT TO CKD 07JM60
CDLIBNAM DC CL7'&LIBNAM' DEFAULT TO MASTER 108DV80
CDSLACK DC 32F'0' SLACK BYTES FOR GROWTH - VSE AREA JM70
CDSLACKL EQU *-CDSLACK LENGTH OF VSE SLACK AREA JM70
CDLEN EQU *-CUTOTLEN VSE TOTAL MODULE LENGTH JM70
CUDOSPEC EQU *-(CUTOTLEN+1024) VSE SPECIFIC LENGTH JM70
MEND

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Figure 44 Sample DYLINSTL Member (Page 56 of 56)

HOLIDAY

A sample of the HOLIDAY member is shown in the following figure.

```

MACRO                                00067**1
HOLIDAY &DATE=, &DAYLEN=WHOLE, &WKDAEND=7, &CHAR2=19, &CHAR4=19 00068**1
GBLC  &WKDAYF, &HOLDAYF, &PREVDAT 00069**1
GBLA  &WKDATOT 00070**1
LCLC  &LENDAY, &DAY, &YR, &MM, &DD, &YY 00071**1
LCLA  &YRCHAR(2), &JULDAY, &JULYR 00072**1
AIF   ('&WKDAYF' EQ 'Y').DATE00 00073**1
MNOTE 8, 'SEVEN WEEKDAY MACROS MUST PRECEDE HOLIDAY MACROS' 00074**1
MEXIT 00075**1
.DATE00 ANOP 00076**1
AIF   ('&DATE' NE '').DATE01 00077**1
MNOTE 8, 'HOLIDAY DATE IS MISSING' 00078**1
MEXIT 00079**1
.DATE01 ANOP 00080**1
AIF   (K'&DATE EQ 8).DATE02 00081**1
MNOTE 8, 'HOLIDAY DATE LENGTH MUST BE 8 CHARACTERS' 00082**1
MEXIT 00083**1
.DATE02 ANOP 00084**1
&MM   SETC '&DATE' (1,2) 00085**1
&DD   SETC '&DATE' (3,2) 00086**1
&YY   SETC '&DATE' (5,4) 00087**1
AIF   ('&MM' LT '01').BADMO 00088**1
AIF   ('&MM' NE '02').DATE11 00089**1
AIF   ('&DD' GT '29').BADDAY 00090**1
AGO   .DATE12 00091**1
.DATE11 ANOP 00092**1
AIF   ('&MM' GT '12').BADMO 00093**1
AIF   ('&DD' GT '31').BADDAY 00094**1
.DATE12 ANOP 00095**1
AIF   ('&DD' LT '01').BADDAY 00096**1
AIF   ('&YY' LT '1900').BADYEAR 00097**1
AIF   ('&YY' LE '2099').JANUARY 00098**1
.BADYEAR ANOP 00099**1
MNOTE 8, 'YEAR MUST BE IN THE RANGE OF 1900 TO 2099' 00100**1
MEXIT 00101**1
.JANUARY ANOP 00102**1
&JULDAY SETA &DD 00103**1
AIF   ('&MM' EQ '01').CKLEN 00104**1
&JULDAY SETA &JULDAY+31 ADD JANUARY DAYCOUNT 00105**1
AIF   ('&YY' EQ '1900').FEB28 00106**1
&JULYR SETA &YY-((&YY/4)*4) 00107**1
AIF   (&JULYR EQ 0).LEAPYR 00108**1
.FEB28 ANOP 00109**1
AIF   ('&MM' NE '02').DATE20 00110**1
AIF   ('&DD' NE '29').CKLEN 00111**1
MNOTE 8, 'DATE OF 0229 IS INVALID FOR NON LEAP YEAR' 00112**1
MEXIT 00113**1
.LEAPYR ANOP 00114**1
AIF   ('&MM' EQ '02').CKLEN 00115**1
&JULDAY SETA &JULDAY+1 ONE DAY FOR LEAP YEAR 00116**1
.DATE20 ANOP 00117**1
&JULDAY SETA &JULDAY+28 ADD FEBRUARY DAY COUNT 00118**1
AIF   ('&MM' EQ '03').CKLEN 00119**1
&JULDAY SETA &JULDAY+31 ADD MARCH DAY COUNT 00120**1
AIF   ('&MM' GT '04').MAY 00121**1
AIF   ('&DD' GT '30').BADDAY 00122**1
AGO   .CKLEN 00123**1
.MAY ANOP 00124**1
&JULDAY SETA &JULDAY+30 ADD APRIL DAY COUNT 00125**1
AIF   ('&MM' EQ '05').CKLEN 00126**1
&JULDAY SETA &JULDAY+31 ADD MAY DAY COUNT 00127**1
AIF   ('&MM' GT '06').JULY 00128**1
AIF   ('&DD' GT '30').BADDAY 00129**1
AGO   .CKLEN 00130**1
.JULY ANOP 00131**1
&JULDAY SETA &JULDAY+30 ADD JUNE DAY COUNT 00132**1
AIF   ('&MM' EQ '07').CKLEN 00133**1
&JULDAY SETA &JULDAY+31 ADD JULY DAY COUNT 00134**1
AIF   ('&MM' EQ '08').CKLEN 00135**1

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Figure 45 Sample HOLIDAY Member (Page 1 of 3)

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&JULDAY SETA &JULDAY+31          ADD AUGUST DAY COUNT          00136**1
AIF ('&MM' GT '09').OCTOBER      00137**1
AIF ('&DD' GT '30').BADDAY        00138**1
AGO .CKLEN                          00139**1
.OCTOBER ANOP                          00140**1
&JULDAY SETA &JULDAY+30          ADD SEPTEMBER DAY COUNT      00141**1
AIF ('&MM' EQ '10').CKLEN          00142**1
&JULDAY SETA &JULDAY+31          ADD OCTOBER DAY COUNT        00143**1
AIF ('&MM' GT '11').DECEMBER      00144**1
AIF ('&DD' GT '30').BADDAY        00145**1
AGO .CKLEN                          00146**1
.DECEMBER ANOP                       00147**1
&JULDAY SETA &JULDAY+30          ADD NOVEMBER DAY COUNT      00148**1
. CKLEN ANOP                          00149**1
&LENDAY SETC '10'                  00150**1
AIF ('&DAYLEN' EQ '').LENOK        00151**1
AIF ('&DAYLEN' EQ 'WHOLE').LENOK   00152**1
&LENDAY SETC '05'                  00153**1
AIF ('&DAYLEN' EQ 'HALF').LENOK     00154**1
MNOTE 8,'LENGTH OF HOLIDAY IS INVALID' 00155**1
MEXIT                                00156**1
.LENOK ANOP                          00157**1
&JULYR SETA &YY                    00158**1
AIF ('&HOLIDAYF' EQ 'Y').SEQCHK    00159**1
MISC EQU *                          BEGINNING OF MISCELLANEOUS ITEMS 00160**1
DC PL2'&WKDATOT'                   WEEK LENGTH                  00161**1
DC P'&WKDAEND'                     WEEK ENDING DAY              00162**1
AIF ('&CHAR2' LT '19').ERR4         00163**1
AIF ('&CHAR4' LT '19').ERR4         00164**1
AIF ('&CHAR2' GT '20').ERR4         00165**1
AIF ('&CHAR4' LE '20').CHAR200      00166**1
.ERR4 ANOP                           00167**1
MNOTE 8,'FOUR CHARACTER YEAR MUST BEGIN WITH 19 OR 20' 00168**1
MEXIT                                00169**1
.CHAR200 ANOP                         00170**1
AIF ('&CHAR2' EQ '20').CHAR220      00171**1
&YRCHAR(1) SETA 1                    00172**1
AGO .CHAR400                          00173**1
.CHAR220 ANOP                         00174**1
&YRCHAR(1) SETA 2                    00175**1
.CHAR400 ANOP                         00176**1
AIF ('&CHAR4' EQ '20').CHAR420      00177**1
&YRCHAR(2) SETA 5                    00178**1
AGO .YEARCH                          00179**1
.CHAR420 ANOP                         00180**1
&YRCHAR(2) SETA 6                    00181**1
.YEARCH ANOP                          00182**1
DC X'&YRCHAR(1)&YRCHAR(2)' 2-, 4-CHAR YEAR DEFAULT VALUES 00183**1
&HOLIDAYF SETC 'Y'                  00184**1
HOLIDAY EQU *                        00185**1
.SEQCHK ANOP                          00186**1
AIF (&JULDAY GT 99).NORMDAY        00187**1
AIF (&JULDAY GT 9).DAY2POS          00188**1
&DAY SETC '00&JULDAY'              00189**1
AGO .DONEDAY                          00190**1
.DAY2POS ANOP                         00191**1
&DAY SETC '0&JULDAY'                00192**1
AGO .DONEDAY                          00193**1
.NORMDAY ANOP                        00194**1
&DAY SETC '&JULDAY'                 00195**1
.DONEDAY ANOP                        00196**1
AIF ('&JULYR.&DAY' GT '&PREVDAT').SEQOK 00197**1
MNOTE 8,'DATES ARE OUT OF SEQUENCE' 00198**1
MEXIT                                00199**1
.SEQOK ANOP                           00200**1
&PREVDAT SETC '&JULYR.&DAY'        00201**1
DC P'&JULYR.&DAY'                   HOLIDAY                      00202**1
DC P'&LENDAY'                       TIME OFF, THIS HOLIDAY       00203**1

```

Figure 45 Sample HOLIDAY Member (Page 2 of 3)

```

          DC      6X'FF'
          ORG     *-6
          MEXIT
.BADMO   ANOP
          MNOTE  8,'DATE HAS MONTH OTHER THAN 01 THRU 12'
          MEXIT
.BADDAY  ANOP
          MNOTE  8,'AN INVALID DAY HAS BEEN SPECIFIED FOR MONTH &MM'
          MEND

```

00204**1
00205**1
00206**1
00207**1
00208**1
00209**1
00210**1
00211**1
00212**1

Figure 45 Sample HOLIDAY Member (Page 3 of 3)

PLIEXIT

A sample of the PLIEXIT member is shown in the following figure.

```

*****
***
***   PROGRAM: PLIEXIT
***   DATE WRITTEN: AUGUST, 1995
***   AUTHOR: COMPUTER ASSOCIATES
***
***   FUNCTION: THIS PROGRAM IS CALLED FROM A VISION:RESULTS
***              PROGRAM WHICH IN TURN CALLS A PL/I MAIN PROGRAM.
***
***              ITS PURPOSE IS TO ELIMINATE THE NEED OF THE
***              VISION:RESULTS PROGRAMMER TO SET UP ALL OF THE
***              PARAMETERS NEEDED BY PL/I.
***
*****
PLIEXIT  START 0
          B      12(R15)
          DC     CL8'PLIEXIT '      PROG ID
          STM    R14,R12,12(R13)    SAVE CALLING PROGS REGISTERS
          LR     R11,R15            OUR BASE
          USING  PLIEXIT,R11
          ST     R13,SAVE+4        SAVE CALLING PROGS R13
          LA     R2,SAVE           ADDR OF OUR SAVE AREA
          ST     R2,8(R13)        IN CALLING PROGS AREA
          LR     R13,R2
          ST     R1,PARM280       ADDR OF PARM LIST FROM VISION:RESULTS
          LA     R1,PARM280       ADDR OF ADDR OF PARM LIST
          ST     R1,PARMPLI
          LA     R1,PARMPLI       ADDR FOR PL/I
          ST     R1,ALIST
          LA     R1,ALIST        ARGUMENT ADDR
          L      R15,=V(PLICALLB) CALL PL/I LOAD MODULE
          BALR   R14,R15
          L      R13,SAVE+4      RESTORE CALLING PROGS REGISTERS
          LM     R14,R12,12(R13)
          BR     R14            RETURN TO CALLING PROGRAM
SAVE     DS     9D            REGISTER SAVE AREA
          LTORG
PARM280  DS     A
PARMPLI  DS     A
ALIST    DC     A(*-*)        ADDR OF ARGUMENT LIST
          DC     A(ISALEN)     ADDR OF LENGTH OF ISA STORGE
          DC     A(ISAADDR)    ADDR OF ISA POINTER
          DC     A(0)         TASK ISA - NOT USED
          DC     A(0)         NUMBER OF CONCURRENT SUBTASKS - NONE
          DC     A(OPTIONS)   ADDR OF OPTIONS WORD
          DC     A(HPSIZE)    ADDR SIZE OF HEAP
          DC     A(HEAP)      ADDR OF HEAP
          DC     A(HEAPINC)   ADDR OF HEAP INCREMENT
          DC     A(0)         ADDR OF SUBTASK HEAP INCREMENT
          DC     A(ISAINC)    ADDR OF ISA INCREMENT
          ORG     *-4
          DC     X'80'        END OF LIST
          ORG

```

Figure 46 Sample PLIEXIT Member (Page 1 of 2)

```

ISALEN  DC  A(1024*14)          ISA LENGTH = 14K
ISAADDR DC  A(ISASTOR)         ADDR OF ISA
DS      DS  0D
ISASTOR DC  1024XL14'00'      ISA, 14K
HEAP    DC  1024F'0'          HEAP 4K
HPSIZE  DC  A(*-HEAP)         HEAP SIZE = 4K
HEAPINC DC  F'4096'           HEAP INCREMENT 4K
ISAINC  DC  F'4096'           ISA INCREMENT 4K
*
OPTIONS DC  AL1(NOREPORT+STAE,FREEHEAP+BELHEAP,0,0)
*
*      DEFINITIONS OF BITS IN OPTIONS BYTE
*
REPORT  EQU  X'80'             FIRST BYTE
NOREPORT EQU X'40'
SPIE    EQU  X'20'
NOSPIE  EQU  X'10'
STAE    EQU  X'08'
NOSTAE  EQU  X'04'
COUNT  EQU  X'02'
NOCOUNT EQU X'01'
*
FLOW    EQU  X'80'             SECOND BYTE
NOFLOW  EQU  X'40'
KEEPHEAP EQU X'20'
FREEHEAP EQU X'10'
ANYHEAP EQU  X'08'
BELHEAP EQU  X'04'
MKEEPHEAP EQU X'02'
MFREHEAP EQU X'01'
*
MANYHEAP EQU X'80'             THIRD BYTE
MBELHEAP EQU X'40'
*
R1      EQU  1
R2      EQU  2
R11     EQU  11
R12     EQU  12
R13     EQU  13
R14     EQU  14
R15     EQU  15
END     PLIEXIT

```

Figure 46 Sample PLIEXIT Member (Page 2 of 2)

RESULTS

A sample of the RESULTS member is shown in the following figure.

```

//RESULTS PROC DR=0M,                                00010000
//          COPY='YOUR.RESULTS.COPY.LIBRARY',        00020000
//          DS='YOUR.RESULTS.OPERATIONAL.LIBRARY',    00030000
//          HT='YOUR.RESULTS.HTML.LIBRARY',           00040000
//          DT='(,40)',                                00050000
//          DWS=TRK,                                    00060000
//          DWSP=10,                                    00070000
//          DWSS=5,                                     00080000
//          DWU=SYSDA,                                  00090000
//          ROUT='*',                                    00100000
//          SOUT='*',                                    00110000
//          SRTLIB='SYS1.SORTLIB',                     00120000
//          SRTSC=CYL,                                  00130000
//          SRTUNIT=SYSDA,                              00140000
//          SRTWRK=5,                                    00150000
//          *                                           00160000
//          * SYMBOLIC PARAMETERS USED IN THIS PROCEDURE 00170000
//          *                                           00180000
//          * COPY = RESULTS COPY/COPYE LIBRARY         00190000
//          * DR = RESULTS REGION SIZE                   00200000

```

Figure 47 Sample RESULTS Member (Page 1 of 2)

```

//* DS      = RESULTS OPERATIONAL LOAD LIBRARY DATA SET NAME      00210000
//* DT      = RESULTS EXECUTION TIME LIMIT                          00220000
//* HT      = RESULTS HTML TEMPLATE LIBRARY                          00230000
//* DWS     = RESULTS WORK FILE DASD SPACE CLASS                     00240000
//* DWSP    = RESULTS WORK FILE DASD SPACE PRIMARY ALLOCATION        00250000
//* DWSS    = RESULTS WORK FILE DASD SPACE SECONDARY ALLOCATION      00260000
//* DWU     = RESULTS WORK FILE UNIT CLASS                           00270000
//* ROUT    = RESULTS REPORT OUTPUT DESTINATION                     00280000
//* SOUT    = RESULTS PRINTED OUTPUT DESTINATION                     00290000
//* SRTLIB  = SORT LIBRARY DATA SET NAME                           00300000
//* SRTSC   = SORT SPACE CLASS                                      00310000
//* SRTUNIT = SORT UNIT CLASS                                       00320000
//* SRTWRK  = SORT SPACE ALLOCATION                                  00330000
//*                                                00340000
//STEP01   EXEC PGM=DYL280,REGION=&DR,TIME=&DT                       00350000
//STEPLIB DD DSN=&DS,DISP=SHR                                       00360000
//SYSPRINT DD SYSOUT=&SOUT                                           00370000
//SYS280R DD SYSOUT=&ROUT                                           00380000
//SYSOUT   DD SYSOUT=&SOUT                                           00390000
//ABNLIGNR DD DUMMY                                                 00390100
//SYSUDUMP DD SYSOUT=&SOUT                                           00391000
//AUDPRINT DD SYSOUT=&SOUT,DCB=BLKSIZE=133                           00400000
//SYSCOPY DD DSN=&COPY,DISP=SHR                                       00410000
//VRHTMLIB DD DSN=&HT,DISP=SHR                                       00420000
//VRHTMWRK DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))                   00430000
//SYS004   DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))                   00440000
//AUDWORK  DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS))                   00450000
//AUDEPF   DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS)),                  00460000
//                                                DCB=(BLKSIZE=800,LRECL=80,RECFM=FB) 00470000
//AUDCBF   DD UNIT=&DWU,SPACE=(&DWS,(&DWSP,&DWSS)),DCB=BLKSIZE=1000 00480000
//SORTLIB  DD DSN=&SRTLIB,DISP=SHR                                       00490000
//SORTWK01 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)        00500000
//SORTWK02 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)        00510000
//SORTWK03 DD UNIT=&SRTUNIT,SPACE=(&SRTSC,(&SRTWRK),,CONTIG)        00520000

```

Figure 47 Sample RESULTS Member (Page 2 of 2)

RE60TEST

A sample of the RE60TEST member is shown in the following figure.

```

//RE60TEST JOB ACCT-INFO,'CA INC.',CLASS=0
//*
//* THE RESULTS PROC WAS PLACED IN YOUR PROCEDURE LIBRARY DURING
//* INSTALLATION. PLEASE ADD THE JCL NECESSARY TO PICK UP THIS
//* PROCEDURE AND THEN SUBMIT THE TEST. A RETURN CODE OF ZERO
//* INDICATES THAT RESULTS WAS INSTALLED CORRECTLY.
//*
//RUNTEST EXEC RESULTS
//SYSIN DD *
OPTION XREFA QLF
FILE SYSIN CARDS
CCENTER 4 (COST'CENTER)
OFFNO 4 (OFFICE'NUMBER)
EMPNO 6 (EMPLOYEE'NUMBER)
EMPNAME 19 (EMPLOYEE'NAME)
HDATE 6 NU D (HIRE'DATE)
SALCLASS 1 (SALARY'CLASS)
JCLASS 4 (JOB'CLASS)
LGRADE 1 (LABOR'GRADE)
SEX 1 (S'E'X)
MSTATUS 2 (MRT'ST)
CRATE 6 NU 2 E (CURRENT'RATE)
IDATE 6 NU D (INCREASE'DATE)
ITYPE 1 (INCR'TYPE)
IAMT 5 NU 2 E (INCREASE'AMOUNT)

WORKAREA
MESSAGE 20

```

Figure 48 Sample RE60TEST Member (Page 1 of 2)

```

AVG      6 NU 2 E (AVG'RATE)
TALLY   4.0      (COUNT)

REPORT 4 BETWEEN

CONTROL OFFNO CCENTER

LIST CCENTER OFFNO EMPNO EMPNAME HDATE SALCLASS JCLASS LGRADE
SEX MSTATUS CRATE IDATE ITYPE IAMT

ON CHANGE IN OFFNO
MOVE '* OFFICE TOTAL' TO MESSAGE
LST:
AVG = SUM CRATE/TALLY
LIST MESSAGE AT EMPNAME SUM CRATE SUM IAMT TALLY AVG
WITH 2 AFTER

ON CHANGE IN CCENTER
MOVE '** COST CENTER TOTAL' TO MESSAGE
GOTO LST

ON FINAL
MOVE '***GRAND TOTAL' TO MESSAGE
GOTO LST

T1 'CA INC. SYSTEMS' WITH 1 AFTER
T2 WITH 1 AFTER
T3 'EMPLOYEE BY COST CENTER' WITH 2 AFTER
T1+1 'VISION:RESULTS EXAMPLE'
T1+106 'REPORT NUMBER EMPCOS-1A'
T2+106 'PERIOD ENDING'
T2+123 DYLDATE4
T3+106 'PAGE NUMBER'
T3+125 DYLPAGE7
FIN
0E160087003471WOLF ROADRUNNER 060185B00363M03034100
0E160090003640TOTO R ROTO 041485A00412M01050000
0E160090004561TREBOR S ROBERT 101084B00413M04047500
0E160090004777SUDSY B SUGGINS 022280C00363F05021000
0E160155005601THOR VIKING 120183S00365M05031000060190110000
0E160155005678STANLEY YELNATS 060787S00365M02032500
0E160170005831GODFREY Q ZANE 070782D00394M02060000
0E160170005889ZAC Z ZOOK 112580U00394F03034000
0E160190004361LORAC B CARROLL 101081D00415F01036500120190202000
0E160190006451DUDLEY G DORIGHT 120184A00413M01047500
0E160190004411FANNIE FAIRWEATHER 080180S00415F01050000
0E160190005512GINGER A FIZZ 051781S00415F05029500
0E170155006636GUSSIE GASPARD 042785R00365F04030000
0E170087005961SPEEDBALL GONZALES 061480A00393M03060000083090105000
0E170087005212SEEMORE HORIZONS 090187D00363M03026500102590107500
0E170087004180BERNIE MILKTOAST 060680U00364M02015000
/*

```

Figure 48 Sample RE60TEST Member (Page 2 of 2)

RE60TVSM

A sample of the RE60TVSM member is shown in the following figure.


```

//RE60TVSM JOB ACCT-INFO, 'COMPUTER ASSOCIATES', CLASS=0
//*
//* THE FOLLOWING JOB CREATES AND TESTS A KSDS VSAM VERSION OF
//* THE SEQUENTIAL DEMOFILE, WHICH WAS ONE OF THE FILES PROVIDED
//* DURING INSTALLATION.
//*
//* THE RESULTS PROC IS ONE OF THE MEMBERS IN THE INSTALLATION
//* SOURCE LIBRARY. PLEASE ADD THE JCL NECESSARY TO PICK UP THIS
//* PROCEDURE AND THEN SUBMIT THE TEST.
//*
//*
//*****
//*          DEFINE VSAM DEMOFILE          *
//*          KSDS CLUSTER                  *
//*                                          *
//*****
//STEP01 EXEC PGM=IDCAMS,REGION=0M
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE YOUR.RESULTS.DEMOFILE.VSAM
      SET LASTCC=0                                00270000
      SET MAXCC=0                                00280000
DEFINE CLUSTER ( NAME(YOUR.RESULTS.DEMOFILE.VSAM) -
      VOLUMES(?????) -                          00300000
      INDEXED -                                  00310000
      KEYS(7 3) -                               00320000
      RECORDS(200 10) -                        00330000
      RECORDSIZE(352 352) -                   00340000
      REUSE -                                   00350000
      CONTROLINTERVALSIZE(4096) -            00360000
      SPEED ) -                                 00370000
      INDEX ( NAME(YOUR.RESULTS.DEMOFILE.VSAM.INDEX)) -
      DATA ( NAME(YOUR.RESULTS.DEMOFILE.VSAM.DATA))
//*
//*****
//*          LOAD VSAM KSDS DEMOFILE FROM  *
//*          FROM SEQUENTIAL DEMOFILE     *
//*                                          *
//*****
//*
//STEP02 EXEC RESULTS
//FILEIN DD DSN=YOUR.RESULTS.DEMOFILE,DISP=SHR
//FILEOUT DD DSN=YOUR.RESULTS.DEMOFILE.VSAM,DISP=SHR
//SYSIN DD *

FILE FILEIN FB 352 STATUS INSTAT
      INREC 352 1
      AR_KEY 7 4

FILE FILEOUT KSDS F 352 OUTPUT FROM FILEOUT STATUS OUTSTAT
      OUTREC 352 1

      SORT FILEIN USING AR_KEY

      MOVE INREC TO OUTREC
      WRITE FILEOUT
FIN
//*
//STEP03 EXEC RESULTS
//FILEIN DD DSN=YOUR.RESULTS.DEMOFILE.VSAM,DISP=SHR
//SYSIN DD *
*****
*          D E M O F I L E   V S A M          *
*          S A M P L E   P R O G R A M      *
*                                          *
*          THIS PROGRAM READS A "CARD" FILE *
*          CONTAINING KEYS MATCHING RECORDS IN THE *
*          THE SAMPLE VSAM ACCOUNTS RECEIVABLE FILE *

```

Figure 49 Sample RE60TVSM Member (Page 1 of 3)

```

*      (DEMOFILE).
*
*      EACH KEY WILL THEN BE USED AS A
*      STARTING POINT FOR SKIP SEQUENTIAL
*      PROCESSING OF THE DEMOFILE FILE.
*
*      RECORDS WILL BE READ SEQUENTIALLY IN
*      GROUPS OF 20. THERE WILL BE ONE GROUP FOR
*      EACH KEY READ FROM THE CARD FILE.
*
*****
OPTION STRUCTURED2
REPORT 132 WIDE

WORKAREA
END_OF_FILE 1 CH VALUE 'E'
RECORD_FOUND 1 CH VALUE 'Y'
EQ_OR_GT 1 CH VALUE 'G'
EQ_TO 1 CH VALUE 'E'
REPEAT 1 CH VALUE 'R'
HDR_1 21 CH VALUE '----- NAME -----'
HDR_2 17 CH VALUE '---- BALANCE ----'
GROUP_HDR 14 CH VALUE 'GROUP NUMBER: '
GROUP_NO 2 PD VALUE 0 B
GROUP_SIZE 2 PD VALUE 20
GROUP_CNT 2 PD VALUE 0

FILE CARDFILE CARDS STATUS CARDSTAT
CARDKEY 7 ;SKIP POSITION KEY

FILE FILEIN KSDS F 352 STATUS SKIPSTAT SKIP SKIPKEY
POSITION POSCODE KEYLEN 7
INREC 352 1
COPY ARFIELDS

*----- R e a d k e y f i l e ----- *

DOWHILE CARDSTAT NE END_OF_FILE
READ CARDFILE
MOVE CARDKEY TO SKIPKEY
MOVE EQ_OR_GT TO POSCODE ;EQ OR GT KEY
GROUP_CNT = 1

*----- S k i p S e q u e n t i a l R e a d s ----- *

READ FILEIN
IF SKIPSTAT EQ RECORD_FOUND
PERFORM DOHEADER
DOWHILE SKIPSTAT NE END_OF_FILE
AND GROUP_CNT LE GROUP_SIZE
GROUP_CNT = GROUP_CNT + 1
PERFORM LISTRECS
READ FILEIN
ENDDO
LIST ' ' AT 01 WITH 2 AFTER
ENDIF
ENDDO

STOP

DOHEADER:
*****
*      D O H E A D E R
*
*      -PRINT REPORT HEADERS
*
*****

GROUP_NO = GROUP_NO + 1 ;GROUP COUNT + 1
LIST GROUP_HDR AT 40
GROUP_NO AT 55
LIST ' ' AT 01
LIST HDR_1 AT 39
HDR_2 AT 73
LIST ' ' AT 01

```

Figure 49 Sample RE60TVSM Member (Page 2 of 3)

```

DOHEADER_X:
LISTRECS:
*****
*          L I S T R E C S          *
*          -LIST GROUP RECORDS     *
*          *                         *
*****
          LIST NAME      AT 40
          BALANCE AT 72
LISTRECS_X:
-----
T1 'DEMOFILE VSAM SKIP SEQUENTIAL'
T2 ' '
T3 ' '
T4 ' '
T1+001 'Date:'
T1+007 DYLDATE
T1+100 DYLPAGE
T2+001 'Time:'
T2+007 DYLETIME
T3+001 'DEMOFILE VSAM SAMPLE'
FIN
1014021
6034241
6098223
7012799
//

```

Figure 49 Sample RE60TVSM Member (Page 3 of 3)

SIXTY4YR

A sample of the SIXTY4YR member is shown in the following figure.

```

L 004*   PJDT4           * JULIAN DATE - 4 DIGIT YEAR
L 005*   PPDT4           * GREGORIAN DATE - 4 DIGIT YEAR
L 032*   CLDT4           * EDITED 4 DIGIT YEAR DATE & PAGE
L 010*-26 CEDT4         * EDITED 4 DIGIT YEAR DATE
L 002*   CCEN1           * CENTURY 1 PREFIX
L 002*   CCEN2           * CENTURY 2 PREFIX
L 010*   CCENWRK         * 4DIGIT WORKAREA
L 002*   CVQ%##$00      VX'4040'
D 1001 DYL4INIT'        EL JDT4

```

Figure 50 Sample SIXTY4YR Member

WEEKDAY

A sample of the WEEKDAY member is shown in the following figure.

```

MACRO                                00004**1
WEEKDAY &DAY=, &DAYLEN=WHOLE        00005**1
GBLC  &WKDAYF, &DAYS (7)            00006**1
GBLA  &NEXT, &WKDATOT                00007**1
LCLC  &DAYCODE, &LENDAY              00008**1
LCLA  &DAYNUM                          00009**1
AIF   (&NEXT NE 0) .NODAYS          00010**1
&DAYS (1) SETC 'MON'                 00011**1
&DAYS (2) SETC 'TUE'                 00012**1
&DAYS (3) SETC 'WED'                 00013**1
&DAYS (4) SETC 'THU'                 00014**1
&DAYS (5) SETC 'FRI'                 00015**1
&DAYS (6) SETC 'SAT'                 00016**1
&DAYS (7) SETC 'SUN'                 00017**1
.NODAYS ANOP                          00018**1
AIF   ('&DAY' NE '') .DAYHERE        00019**1
MNOTE 8, 'DAY OF WEEK CODE IS MISSING' 00020**1
MEXIT                                00021**1
.DAYHERE ANOP                         00022**1
&NEXT  SETA  &NEXT+1                 00023**1
AIF   (&NEXT LE 7) .DAYLOOP         00024**1
MNOTE 4, 'DATA FOR MORE THAN 7 DAYS IGNORED' 00025**1
MEXIT                                00026**1
.DAYLOOP ANOP                         00027**1
&DAYNUM SETA  &DAYNUM+1             00028**1
AIF   ('&DAY' EQ '&DAYS (&DAYNUM)') .GOTDAY 00029**1
AIF   (&DAYNUM LE &NEXT) .DAYLP1    00030**1
MNOTE 8, 'DAY OF WEEK CODES ARE OUT OF SEQUENCE OR MISSPELLED' 00031**1
MEXIT                                00032**1
.DAYLP1 ANOP                         00033**1
AIF   (&DAYNUM LE 6) .DAYLOOP       00034**1
.GOTDAY ANOP                         00035**1
AIF   (&DAYNUM EQ &NEXT) .GOTDAY1   00036**1
MNOTE 8, 'DAY OF WEEK SKIPPED OR DUPLICATED' 00037**1
MEXIT                                00038**1
.GOTDAY1 ANOP                        00039**1
&DAYCODE SETC '&DAYNUM'             00040**1
&LENDAY SETC '10'                    00041**1
AIF   ('&DAYLEN' EQ '') .LENOK       00042**1
AIF   ('&DAYLEN' EQ 'WHOLE') .LENOK  00043**1
&LENDAY SETC '05'                    00044**1
AIF   ('&DAYLEN' EQ 'HALF') .LENOK   00045**1
&LENDAY SETC '00'                    00046**1
AIF   ('&DAYLEN' EQ 'OFF') .LENOK    00047**1
&NEXT  SETA  &NEXT-1                 00048**1
MNOTE 8, 'WEEK DAY LENGTH FIELD IS MISSPELLED' 00049**1
MEXIT                                00050**1
.LENOK ANOP                          00051**1
AIF   (&NEXT NE 1) .NOCSECT         00052**1
CONVDATT CSECT                       00053**1
DC    A(WEEKDAY-CONVDATT) LOCATE DAYS TABLE BEGINNING 00054**1
DC    A(HOLIDAY-CONVDATT) LOCATE HOLIDAY TABLE BEGINNING 00055**1
DC    A(MISC-CONVDATT) LOCATE MISCELLANEOUS DATA BEGINNING 00056**1
WEEKDAY EQU *                         BEGINNING OF DAYS TABLE 00057**1
.NOCSECT ANOP                         00058**1
DC    P'&DAYCODE' DAY NUMBER IDENTIFIER 00059**1
DC    P'&LENDAY' DAY LENGTH           00060**1
&WKDATOT SETA &WKDATOT+&LENDAY      00061**1
AIF   (&NEXT NE 7) .NOTBEND         00062**1
DC    X'FFFFFF' END OF DAY TABLE FLAG 00063**1
&WKDAYF SETC 'Y'                     00064**1
.NOTBEND ANOP                        00065**1
MEND                                  00066**1

```

Figure 51 Sample WEEKDAY Member

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