
Chicago Interface Group, Inc.

Installation Guide

**Adhoc Reporter,
FastLIST,
Greenhouse,
CIG Merge Tool
and
Package Utilities**

R 7.0

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Installation Overview

Manual Scope

This manual contains the procedures for installing or refreshing Adhoc Reporter 7.0, FastLIST 7.0, Greenhouse 7.0, CIG Merge Tool 1.0 and Package Utilities 7.0 from files FTP'ed from the CIG FTP site.

The steps in this manual should be followed in the order that they are presented. Once you have successfully completed all of the steps you will be ready to invoke the products.

Who Should Use This Book

This manual is written for systems programmers who will be upgrading current customers or installing the CIG products for the first time.

Product Components Utilized during Installation

The following JCL members are modified during the installation process. The names are provided here as an overview of CIG naming standards and component functionality.

**JCL Members
(located in JCLLIB)
Modified During
Installation:**

CIGV2EX1	JCL to extract and build JCL PDS members
CIGJCL04	JCL to build the CIGINI file
CIGV2PIN	JCL to for PRINTINI
CIGV2XIT	JCL to compile Endeavor C1UEXITS

A Step-by-Step Approach

BEFORE YOU BEGIN...	
◆	Review system, software, and hardware considerations.
◆	Implement site standards.
CREATE AND POPULATE LIBRARIES	
1.	FTP and Unpack CIG product file as per the current readme.txt file.
2.	Make global JCL changes to the JCLLIB library.
3.	Extract all JCL members from CIGJCL99
4.	Modify JCL and Copy Remaining Datasets
5.	Make global Skeleton changes to the ISPSLIB
6.	Extract all skeletons members from CIGSKL99
7.	Allocate and populate all the product databases
8.	Compile C1UEXITS TABLE with Products required.
9.	Compile the CIGINI initialization file.
10.	Run Printini for IVP and the CIGINFO Clist
11.	Modify the startup CLISTS and invoke

Figure 1.1

CIG Product Installation Step-by-Step

Before You Begin: Review Software and Hardware Considerations

In this step you will review the system, software, and hardware requirements for product installation.

System Requirements

To successfully install software products, the following system requirements must be in place at your installation:

z/OS Operating System	Version 1.1 or higher
CA-Endevor	Version 3.9 – Version 7.0
Product Load Library	One authorized load library

Figure 1.2

Core System Requirements

Software Requirements

Adhoc Reporter, FastList, Greenhouse, and Package Utilities require that CA-Endevor 3.9 or higher is implemented on your system. Contact your systems administrator to ensure that these requirements are in place.

VSAM Exclusion

CIG products must be excluded from all VSAM buffering products. This should be done on a global basis. Failure to exclude CIG databases may result in file corruption.

Authorization Requirement Note

If the target product load library from the “unpack” procedure is not an authorized dataset, then you must copy the product load library into the authorized library.

Demo data Note

The demo data provided is not meant to be valid, but rather meant to show be used during the IVP process only.

To delete the data in the demo databases, you will need to review, modify, and execute the JCL members CIGV2FLT, CIGV2PKG, and CIGV2SLR.

Product Passwords

The product passwords are provided from CIG support. If you did not receive the product passwords from your account representative, please contact CIG support at 1-773-524-0998 Ext.2 for information on temporary and permanent passwords for the products. These passwords will be required to invoke the products.

Product Space Requirements

The table below outlines the space requirements for the software products and supporting libraries. Note that the following estimates are based on 3390 track allocations.

Data Set Names	Primary	Secondary	Directory Blocks	Record format	Record Length
Flhq1.flhq2.LOADLIB	450	45	200	U	0
Flhq1.flhq2.JCLLIB	45	45	100	FB	80
Flhq1.flhq2.ISPPLIB	45	45	200	FB	80
Flhq1.flhq2.ISPSLIB	45	45	100	FB	80
Flhq1.flhq2.ISRCLIB	45	45	20	FB	80
Flhq1.flhq2.ISPMLIB	45	45	45	FB	80
Flhq1.flhq2.SAMPLIB	45	45	100	FB	80

Figure 1.3

Space Requirements

Before You Begin: Implement Site Standards

Site-Specific Placeholders

The following placeholders represent values that are customer-specific.

<i>Flhq1</i>	<i>Flhq2</i>	<i>User1</i>
<i>Dvolser</i>	<i>Qual1</i>	<i>Qual2</i>
<i>Dunit</i>	<i>Tdisk</i>	<i>User2</i>

Figure 1.4

Global Symbolics

These placeholders (see the worksheet on the next page for definitions) are indicated in this chapter by the use of lowercase italics in the reproduced JCL. Substitute your site-specific values in all installation and implementation JCL. The password placeholders will be provided by CIG. Complete the third column on the Placeholder worksheet on the following page for easy reference during installation.

Endevor Dataset Names

Additionally, identify the dataset names for your current Endevor set up as per the Dataset worksheet on the following page. These dataset names will be needed for batch JCL updates.

Remove this worksheet from the manual for easy reference during later installation steps.

Placeholder Worksheet

Place Holder	Definition	Your Site Value
<i>Dvolser</i>	Volume serial number of the disk used to store permanent data sets (if needed).	
<i>Dunit</i>	Unit label for permanent disk data sets (usually SYSDA).	
<i>Tdisk</i>	Unit label for temporary disk data sets: usually SYSDA).	
<i>Flhq1</i>	High-level qualifier for the CIG Product datasets.	
<i>Flhq2</i>	Second-level qualifier for the CIG Product datasets.	
<i>Pwd-pu</i>	Package Utilities Password	
<i>Pwd-so</i>	Sojourn Password	
<i>Pwd-fl</i>	Fastlist Password	
<i>Pwd-so</i>	Sojourn Password	
<i>Qual1</i>	High-level qualifier for Endeavor datasets.	
<i>Qual2</i>	Second-level qualifier for Endeavor datasets.	

Figure 1.5

Site-specific Customization

Dataset Worksheet

DDNAME	Dataset / File Names Examples	Your Dataset / File Names
<i>CA-Endevor LOADLIB</i>	SYS3.ENDEVOR.AUTHLIB	
<i>CA-Endevor CONLIB</i>	SYS3.ENDEVOR.CONLIB	
<i>CA-Endevor SYSLIB</i>	SYS3.ENDEVOR.SOURCE	

Figure 1.6

Endevor Dataset Names

Step 1. FTP and Unpack the CIG Software

Installation Files

Product components are now downloaded from the CIG FTP site. There are two files to download, the readme.txt and the cig.bin product file.

Please contact CIG support to get access and instructions for downloading the most current readme.txt and product file. The support access number is 1-773-524-0998 ext. 2.

Unpack the software

Follow the instructions in the readme.txt file downloaded from the CIG FTP site for unpacking the compressed CIG product files.

Required software

The IBM TRSMMAIN utility is used to expand the compressed installation libraries. If your installation does not have the TRSMMAIN utility, then you can get a copy of the utility from the following website:

<http://techsupport.services.ibm.com/390/trsmmain.htm>

Step 2: Make Global JCL changes

In this step you will make global changes to many of the JCLLIB members. The JCL source to be modified is contained in the JCL member called CIGJCL99.

Edit CIGJCL99

Using the worksheet information you specified in Step 2, issue the following change commands against the member CIGJCL99:

CHANGE ALL DVOLSER	<i>dvolsr</i>
CHANGE ALL DUNIT	<i>dunit</i>
CHANGE ALL TDISK	<i>tdisk</i>
CHANGE ALL FLHQ1.FLHQ2	<i>flhq1.flhq2</i>
CHANGE ALL QUAL1.QUAL2	<i>qual1.qual2</i>

If you wish to modify each JCL member separately, skip this step. Instructions on modifying each JCL member are shown as comments in the individual JCL members.

As a final task in this step, you should edit the member called JOBCARD located in the JCL library. This member can be copied at the top of each JCL member that you will be executing in subsequent steps.

Step 3: Extract all JCL members from CIGJCL99

In this step you will extract all JCL contained in the member CIGJCL99.

To accomplish this extraction, edit the member CIGV2EX1 located in the JCL library, which is shown below. After making the necessary changes as described in the member, submit the job.

All remaining steps in this JCL should terminate with COND CODE=0 or COND CODE=4.

```
/***(JOB CARD)
/**
/** -----
/**          * * *   N O T I C E   * * *
/** THIS PROGRAM IS A PROPRIETARY PRODUCT OF CHICAGO INTERFACE
/** GROUP, INC. @ COPYRIGHT 2002 CHICAGO INTERFACE GROUP, INC.
/** ALL RIGHTS RESERVED.
/** -----
/**
/** CIGV2EX1 - THE PURPOSE OF THIS JCL IS TO TAKE THE SEQUENTIAL
/** JCL FILE AND POPULATE THE JCL PARTITIONED
/** DATASET.
/**
/** MODIFY THIS JCL TO MEET YOUR SITE'S JCL NAMING STANDARDS.
/**
/** 1) INCLUDE A JOBCARD
/** 2) CHANGE FLHQ1 AND FLHQ2 AS PER WORKSHEET.
/** -----
/**STEP1 EXEC PGM=IEBUPDTE
/**SYSIN DD DSN=flhq1.flhq2.JCLLIB(CIGJCL99),DISP=SHR
/**SYSUT1 DD DSN=flhq1.flhq2.JCLLIB,DISP=SHR
/**SYSUT2 DD DSN=flhq1.flhq2.JCLLIB,DISP=SHR
/**SYSPRINT DD SYSOUT=*
```

Figure 1.7

CIGV2EX1

Step 4: Make Global Skeleton changes

In this step you will make global changes to all skeletons. All skeleton source is contained in the skeleton member called CIGSKL99.

Edit CIGSKL99

Using the worksheet information, issue the following change commands against the member CIGSKL99:

```
CHANGE ALL DUNIT          XXXXX
CHANGE ALL TDISK         XXXXX
CHANGE ALL FLHQ1         XXXXX
CHANGE ALL FLHQ2         XXXXX
CHANGE ALL QUAL1.QUAL2   XXXXX.XXXXX
```

If you wish to modify each skeleton separately, skip this step. Instructions on modifying each skeleton are shown as comments in the individual skeletons.

Step 5: Extract all Skeletons from CIGSKL99.

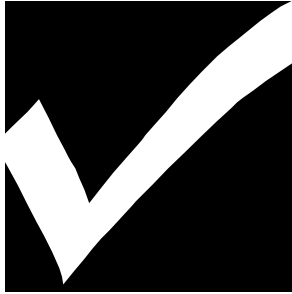
In this step you will extract all skeletons contained in the member CIGSKL99.

To accomplish this extraction, edit the member FLAT3PDS, shown below, located in the JCLLIB library. After making the necessary changes as described in the member, submit the job.

All remaining steps in this JCL should terminate with COND CODE=0

```
/***(JOB CARD)
/**
/** -----
/**          * * *   N O T I C E   * * *
/**          THIS PROGRAM IS A PROPRIETARY PRODUCT OF CHICAGO INTERFACE
/**          GROUP, INC. @ COPYRIGHT 1999 CHICAGO INTERFACE GROUP, INC.
/**          ALL RIGHTS RESERVED.
/** ----- *
/** *
/** FLAT3PDS - THE PURPOSE OF THIS JCL IS TO TAKE THE SEQUENTIAL *
/**          SKELETON FILE AND POPULATE THE SKELETON PARTITIONED *
/**          DATASET. *
/** *
/** MODIFY THIS JCL TO MEET YOUR SITE'S JCL NAMING STANDARDS. *
/** *
/** 1) INCLUDE A JOB CARD *
/** 2) CHANGE FLHQ1 AND FLHQ2 AS PER WORKSHEET. *
/** ----- *
//STEP1 EXEC PGM=IEBUPDTE
//SYSIN DD DSN=flhq1.flhq2.ISPSLIB(CIGSKL99),DISP=SHR
//SYSUT1 DD DSN=flhq1.flhq2.ISPSLIB,DISP=SHR
//SYSUT2 DD DSN=flhq1.flhq2.ISPSLIB,DISP=SHR
//SYSPRINT DD SYSOUT=*
```

FLAT3PDS



CHECKPOINT #1

At this point the following libraries should be allocated and populated. Using ISPF 3.4, verify that these files have been created and contain data.

Data Set Names	Completed?
Flhq1.flhq2.ISPMLIB	
Flhq1.flhq2.ISPPLIB	
Flhq1.flhq2.ISPSLIB	
Flhq1.flhq2.ISRCLIB	
Flhq1.flhq2.SAMPLIB	
Flhq1.flhq2.JCLLIB	
Flhq1.flhq2.LOADLIB	

Figure 1.8

Checkpoint 1

At this point, you should also have completed the following tasks:

Task	Completed?
Reviewed the systems requirements for CIG Products?	
Reviewed the authorization requirements CIG's Products?	
FTP'ed and Unpacked the CIG product files?	

Figure 1.9

Checkpoint 1

Step 6: Allocate and Initialize Databases

The purpose of this step is to allocate and initialize empty databases to be used with the products. If you are an existing user you may skip this step.

The following table lists the JCLLIB members to allocate and initialize the databases.

Product	Allocate and Init JCL	Backup and Reorg JCL
FastLIST	CIGV2FLT	CIGDBJ04
Package Utilities and Greenhouse (and Breeze)	CIGV2PKG	CIGJCL53

Database JCL Table

Step 7: Compile the C1UEXITS CA-Endevor Table

The purpose of this step is to insert the CIG exits in the CA-Endevor exit user exit table. If you are an existing user you may skip this step.

In this step you will compile the CA-Endevor C1UEXITS table. The purpose of this table is to tell Endevor which programs should be added to its exit table processing. If you already have CA-Endevor exits implemented then you will have to review the purpose of the exits and determine whether to call the CIG exits first or your existing exits first. The member displayed below depicts only CIG exits. Check with your Endevor Administrator about existing exits and the ramifications of merging these exits with the CIG exits.

The C1UEXITS module must reside in the Steplib or Job Pack area.

Modify and Submit CIGV2XIT

The C1UEXITS load module must be located in the CIG Product

steplib or linklist area. Create the C1UEXITS load module by executing the JCL in member CIGV2XIT of the JCLLIB dataset. As input to the job, you will need to do the following:

1. Using ISPF EDIT, access member CIGV2XIT in the JCLLIB unpacked from the packed CIG product file.
2. Copy your job card values to the top of the member.
3. Substitute your site-specific values (identified on the Installation Worksheet.) for those values shown below in bold Italics. If you made global JCL changes in Step 2 of this manual, you may skip this substitution.
4. Verify that the SYSLMOD points to the CIG product library or intended execution library.
5. Submit the job.

Note that this job should terminate with COND CODE=0. If it does not:

1. Review your job card parameters and the JCL for errors.
2. Resubmit the job.

CIGV2XIT JCL and Input

```

/** (JOB CARD)
/** -----*
/** NAME: CIGV2XIT *
/** PURPOSE: COMPILE THE C1UEXITS CA-ENDEAVOR EXIT TABLE. *
/** -----*
/** TO USE THIS JCL, YOU MUST: *
/** 1) INSERT A VALID JOB CARD WITH VALID CLASS *
/** 2) MAKE SURE THAT THE STEPLIB POINTS TO THE CIG PRODUCT *
/** INCLUDES THE DATASET THAT CONTAINS THE C1UEXITS AND *
/** CIGFEXEC. *
/** 3) CHANGE FLHQ1, FLHQ2, QUAL1 AND QUAL2 AS PER YOUR *
/** INSTALLATION SHEET *
/** 4) MAKE SURE THE SYSLMOD POINTS TO THE CIGT PRODUCT *
/** LIBRARY OR INTENDED EXECUTION LIBRARY. *
/** 5) MAKE SURE THE SYSLIB POINTS TO THE ENDEAVOR MACRO *
/** LIBRARY. *
/** -----*
/** *
/** STEP 1: ASSEMBLE C1UEXITS INPUT *
/** -----*
/** ASMA90 (HL-ASM) *
/** IEV90 (ASSEMBLER-H) *
/**ASM EXEC PGM=ASMA90, *
/** REGION=3072K, *
/** PARM='NODECK,OBJECT,NOTERM,LIST,XREF(SHORT) ' *
/**SYSIN DD *
C1UEXITS TITLE 'SAMPLE CA-ENDEAVOR EXITS'
*-----*
* MULTIPLE USER EXIT SUPPORT *
* *
* THIS MEMBER IS AN EXAMPLE OF A C1UEXITS TABLE. HERE ARE A *
* FEW NOTES: *
* 1. THIS EXAMPLE SHOWS MULTIPLE EXITS. *
* 2. YOU MAY ALREADY BE USING EXITS AT YOUR INSTALLATION. IN *
* THAT CASE YOU WOULD WANT TO USE YOUR OWN USER EXIT TABLE *
* RATHER THAN RELAYING ON THIS EXIT TABLE. *
* 3. CA-ENDEAVOR USER EXITS ARE DESCRIBED IN THE CA-ENDEAVOR *
* EXITS MANUAL. *
* 4. ALL CIG EXITS ARE DEFINED BY EXECUTING THE PROGRAM CIGFEXEC. *
* FOR EXAMPLE, NAME=CIGFEXEC. *
* 5. SPECIFY ANCHID=0 WHENEVER NAME=CIGFEXEC IS SPECIFIED. *
* 6. AUTH=NO SPECIFIES THAT THE EXITS CAN BE LOADED OUT OF EITHER *
* STEPLIB OR CONLIB. AUTH=YES REQUIRES THE EXIT TO BE LOADED *
* OUT OF AN AUTHORIZED LIBRARY. *
* 7. TO COMMENT OUT ONE OF THE EXITS, PLACE AN "*" IN COLUMN 1. *
* 8. FOR PACKAGE UTILITIES USERS, EXIT 7 MUST BE DEFINED. *
* FOR NON-PACKAGE UTILITIES USERS, EXIT 7 MUST BE COMMENTED OUT. *
* *
* TYPE=START DEFINITION MUST PROCEDE ANY EXIT DEFINITION STATEMENT. *
*-----*
C1UEXITS @C1UEXIT TYPE=START,XIT7BAT=YES
          @C1UEXIT EXIT#=2,NAME=CIGFEXEC,ANCHID=0,AUTH=NO
          @C1UEXIT EXIT#=3,NAME=CIGFEXEC,ANCHID=0,AUTH=NO
          @C1UEXIT EXIT#=5,NAME=CIGFEXEC,ANCHID=0,AUTH=NO
          @C1UEXIT EXIT#=6,NAME=CIGFEXEC,ANCHID=0,AUTH=NO
          @C1UEXIT EXIT#=7,NAME=CIGFEXEC,ANCHID=0,AUTH=NO
          @C1UEXIT EXIT#=7,NAME=CIGFXEM7,ANCHID=0,AUTH=NO
*-----*
* TYPE=DEFINITION DENOTES THE END OF THE EXIT TABLE. *
*-----*
          @C1UEXIT TYPE=END
          END
/**SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
/** DD DSN=QUAL1.QUAL2.ENDEAVOR.MACLIB,DISP=SHR
/**SYSLIN DD DSN=&&SYSLIN,

```

```

//          UNIT=TDISK,SPACE=(TRK,(3,5)),
//          DISP=(NEW,PASS,DELETE),

//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SYSPUNCH DD DUMMY
//SYSUT1   DD UNIT=TDISK,SPACE=(TRK,(5,15))
//SYSPRINT DD SYSOUT=*
//*-----*
//*
//* STEP 3: LINK EDIT THE C1UEXITS MODULE
//*
//* NOTE: CHOOSE THE DESTINATION OF YOUR C1UEXITS FILE. IF YOU ARE
//* PLANNING ON USING AN ALTERNATE C1UEXITS MODULE, YOU MUST
//* FIRST BUILD A C1UEXITS THAT RESIDES IN A STEPLIB DATASET.
//*-----*
//LINK     EXEC PGM=IEWL,
//          REGION=2048K,
//          PARM='LIST,NCAL,XREF,LET,RENT,REUS',
//          COND=(0,NE)
//SYSPRINT DD SYSOUT=*
//SYSLIN   DD DSN=&&SYSLIN,
//          DISP=(OLD,DELETE,DELETE)
//SYSLMOD  DD DSN=FLHQ1.FLHQ2.LOADLIB(C1UEXITS),DISP=SHR
//SYSUT1   DD UNIT=TDISK,SPACE=(TRK,(5,15))

```

Figure 1.10

CIGV2XIT

Step 8: Set Up the CIGINI Initialization File

The purpose of this step is to create the CIGINI file. If you are an existing user you may skip this step.

In this step you will create the CIGINI member, a text format file that contains various product parameters such as product password, database names, and the product load library name.

Review CIGINI settings

The CIGINI load module must be located in the CIG Product steplib or linklist area. Create the CIGINI load module by executing the JCL in member CIGJCL04 of the JCLLIB dataset. As input to the job, you will need to do the following:

1. Using ISPF EDIT, access member CIGJCL04 in the JCLLIB unpacked from the packed CIG product file.
 2. Using ISPF EDIT, access member CIGINI in the SAMPLIB unpacked in Step 1.
 3. Copy your job card values to the top of the member.
 4. Substitute your site-specific values (identified on the Installation Worksheet.) for those values shown below in bold Italics. If you made global JCL changes in Step 2 of this manual, you may skip this item.
 5. Update the appropriate passwords.
 6. Comment out the product sections you are not using.
 7. Verify that the STEPLIB includes the dataset that contains the CIGINI and CIGFEXEC modules.
 8. Verify that the SYSLMOD points to the CIG product library or intended execution library.
 9. Submit the job.
-
10. Note that this job should terminate with COND CODE=0. If it does not:
-
11. Review your job card parameters and the JCL for errors.
 12. Resubmit the job.

Modify CIGINI Samplib Input

```
*****
* THIS FILE IS SUPPORTS THE MULTI-PRODUCT FORMAT.
*
* WHEN MODIFYING THIS FILE, ENSURE THAT ONLY THOSE SECTIONS
* WHICH PERTAIN TO THE PRODUCTS YOU ARE INSTALLING ARE INCLUDED.
*
*****
DEFINE COMMON SECTION
  PRODUCT LOADLIB      = 'FLHQ1.FLHQ2.LOADLIB'
  WORK UNIT            = DUNIT
  VIO UNIT             = DUNIT
  DO NOT ALLOW ALTERNATE CIGINI FILE
  ENDEVOR CONLIB DSNAM = 'QUAL1.QUAL2.CONLIB'
  JAVASERVERCONTROL DSNAM = 'FLHQ1.FLHQ2.JAVALIB'
                        MEMBER = $CONTROL
  NOTIFY RULES DSNAM = 'USER1.USER2.PDSNAME'

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING FASTLIST.
*****
DEFINE FASTLIST SECTION
  PASSWORD = 'PASSWORD'
  VSAM DSNAM = 'FLHQ1.FLHQ2.FLSTDB'
* FILTER ENVIRONMENT TEST

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING ADHOC REPORTER.
*****
DEFINE ADHOC SECTION
  PASSWORD = 'PASSWORD'

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING SOJOURN.
*****
DEFINE SOJOURN SECTION
  PASSWORD = 'PASSWORD'

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING PACKAGE UTILITIES.
*****
DEFINE PACKAGE SECTION
  PASSWORD = 'PASSWORD'
  RESOLVE
* WARN | FAIL | RESOLVE | IGNORE ELEMENT COLLISIONS
  PACKAGE LOG IS REQUIRED
  PACKAGE VSAM DSNAM = 'FLHQ1.FLHQ2.PKGDB'
  AUTOMATIC REMAKE
* USER PROGRAM BEFORE REMAKE = 'TESTPGM'
  DO NOT REMAKE EMERGENCY PACKAGES
  ACTION OPTIONS FOR
    MOVE = MOVENEXT
    GENERATE = ASIS
    TRANSFER = ASIS
    ADD = ASIS
    UPDATE = ASIS
    RETRIEVE = ASIS
    DELETE = ASIS
    PRINT = ASIS
    LIST = ASIS
    ARCHIVE = ASIS
    RESTORE = ASIS
*       ASIS DISCARD MOVENEXT
* FILTER (XXX)

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING GREENHOUSE.
*****
* REMOVE THE 'PRIMARY VSAM MASTER INDEX DSNAM' LINE IF
* FASTLIST IS INSTALLED AT YOUR SITE
```

```

* REMOVE THE 'PRIMARY VSAM GREENHOUSE DSNAME' LINE IF
* PACKAGE UTILITIES IS INSTALLED AT YOUR SITE

* CONFIGURATION DATASET IS NOT REQUIRED FOR ENDEVOR SITES
*****
DEFINE GREENHOUSE SECTION
  PASSWORD = 'PASSWORD'
  LABEL ENFORCEMENT RULES DSNAME = 'DSNAME'
                                MEMBER = 'MEMBER-NAME'

  NOTIFY RULES = 'DSNAME'
                MEMBER = 'MEMBER-NAME'
  CONFIGURATION DSNAME = 'DSNAME'
                        MEMBER = 'MEMBER-NAME'
  PRIMARY VSAM MASTER INDEX DSNAME = 'NAME.OF.MASTER.DATABASE'
  PRIMARY VSAM GREENHOUSE DSNAME = 'NAME OF GREENHOUSE DATABASE'

  ENVIRONMENT = ENDEVOR

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING BREEZE FOR ENDEVOR.
* THIS IS AN EXAMPLE ONLY. THE BREEZE FOR ENDEVOR PRODUCT
* REQUIRES AN ADDITIONAL INSTALL PROCESS AND MANUAL.
*****
*DEFINE BREEZE SECTION
*  PASSWORD = 'PASSWORD'

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING BREEZE FOR SCLM.
* THIS IS AN EXAMPLE ONLY. THE BREEZE FOR SCLM PRODUCT
* REQUIRES AN ADDITIONAL INSTALL PROCESS AND MANUAL.
*****
*DEFINE BRSCLM SECTION
*  PASSWORD = 'PASSWORD'
*  VSAM'DSNAME'= 'FLHQ1.FLHQ2.PKGDB'

*****
* KEEP THIS SECTION IF YOU ARE INSTALLING CLOUD9 FOR ENDEVOR
* DO NOT USE ALTERNATE PRODUCT LOADLIB IF IMPLEMENTING
* CLOUD9.
* THIS IS AN EXAMPLE ONLY. THE CLOUD 9 PRODUCT
* REQUIRES AN ADDITIONAL INSTALL PROCESS AND MANUAL.
*****
*DEFINE CLOUD9 SECTION
*  PASSWORD = 'PASSWORD'
*  SLRVSAM DSNAME = 'FLHQ1.FLHQ2.SLR'
*  ENDEVORBRIDGE
*  ENDEVORMODE
*  IGNOREFASTLIST

```

Figure 1.11

CIGINI Samplib Input

Modify and Submit CIGJCL04

```

/** (JOB CARD)
/**
/**-----*
/** NAME:PARSE, ASSEMBLE AND LINK CIGINI MODULES *
/** *
/** REQUIRED JCL MODIFICATION: *
/** 1) INCLUDE A JOB CARD *
/** 2) CHANGE THE FOLLOWING AS PER THE INSTALLATION WORKSHEET. *
/** - FLHQ1 AND FLHQ2 *
/** 3) THE SYSLMOD DATASET MUST POINT TO YOUR LOADLIB, CIGINI *
/** OVERRIDE DATASET, OR THE ACTUAL STEPLIB/LINKLIB DATASET *
/** THAT WILL CONTAIN REQUIRED MODULES. CIGINI OVERRIDES *
/** ARE OPTIONAL. *
/** *
/** THE FOLLOWING MAY NOT BE REQUIRED FOR SMS INSTALLATIONS: *
/** - UNIT=DUNIT *
/** *

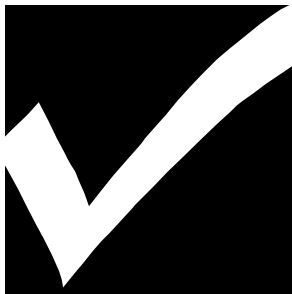
```

```

//*-----*
//*-----*

//*
//*
//* STEP 1: PARSE CIGINI SYNTAX.  BUILD INPUT FOR ASSEMBLER.  *
//*  *
//*-----*
//PARSE      EXEC PGM=ICOMPILER
//STEPLIB   DD DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR
//CIGIN     DD DSN=FLHQ1.FLHQ2.SAMPLIB(CIGINI),DISP=SHR
//CIGPUNCH  DD DSN=&&TEMP,DISP=(NEW,PASS),
//           UNIT=DUNIT,SPACE=(10,10),
//           DCB=(BLKSIZE=3120,LRECL=80,RECFM=FB)
//CIGLOG    DD SYSOUT=*
//*-----*
//*
//* STEP 2: ASSEMBLE THE CIGINI INPUT CREATED IN STEP 1.  *
//*  *
//* NOTE: CHOOSE THE DESTINATION OF YOUR CIGINI FILE.  *
//*  *
//*-----*
//* ASMA90   (HL-ASM)
//* IEV90    (ASSEMBLER-H)
//ASM       EXEC PGM=ASMA90,
//           REGION=3072K,
//           COND=(0,NE),
//           PARM='NODECK,OBJECT,NOTERM,LIST,XREF(SHORT)'
//SYSIN     DD DSN=&&TEMP,DISP=(OLD,DELETE)
//SYSLIB   DD DSN=SYS1.MACLIB,DISP=SHR
//SYSLIN   DD DSN=&&SYSLIN,
//           UNIT=DUNIT,SPACE=(TRK,(3,5)),
//           DISP=(NEW,PASS,DELETE),
//           DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SYSPUNCH DD DUMMY
//SYSUT1   DD UNIT=DUNIT,SPACE=(TRK,(5,15))
//SYSPRINT DD SYSOUT=*
//*-----*
//*
//* STEP 3: LINK EDIT THE CIGINI MODULE  *
//*  *
//* NOTE: CHOOSE THE DESTINATION OF YOUR CIGINI FILE. IF YOU ARE  *
//* PLANNING ON USING AN ALTERNATE CIGINI MODULE, YOU MUST  *
//* FIRST BUILD A CIGINI THAT RESIDES IN A STEPLIB DATASET.  *
//*-----*
//LINK     EXEC PGM=IEWL,
//           REGION=2048K,
//           PARM='LIST,NCAL,XREF,LET,RENT,REUS',
//           COND=(0,NE)
//SYSPRINT DD SYSOUT=*
//SYSLIN   DD DSN=&&SYSLIN,
//           DISP=(OLD,DELETE,DELETE)
//SYSLMOD  DD DSN=FLHQ1.FLHQ2.LOADLIB(CIGINI),DISP=SHR
//SYSUT1   DD UNIT=DUNIT,SPACE=(TRK,(15,15))

```



CHECKPOINT #3

At this point the databases should be created and initialized, the C1UEXITS table and the CIGINI initialization module should be created and stored in the product load library.

Task	Completed?
Allocated and initialized all required databases?	
Compiled the C1UEXITS table?	
Built a CIGINI file that points to the databases?	

Figure 1.12

Checkpoint 3

Step 9: Run the IVP utilities

In this step you will run a job to print various configuration outputs to validate the install and you will execute a TSO command to list the product version numbers on this level of the software.

Modify and Submit CIGV2PIN

1. Using ISPF EDIT, access member CIGV2PIN in the JCLLIB unpacked from the packed CIG product file.
2. Copy your job card values to the top of the member.
3. Substitute your site-specific values (identified on the Installation Worksheet.) for those values shown below in bold Italics. If you made global JCL changes in Step 2 of this manual, you may skip this item.
4. Submit the job.

```
/** (JOB CARD)
/**
/** *****
/**
/** CIGV2PIN - THE PURPOSE OF THIS JCL IS TO:
/**          STEP 1 WILL PRINT THE CIGINI DEFINITIONS.
/** *****
/**
/** REQUIRED JCL MODIFICATION:
/** 1) INCLUDE A JOB CARD
/** 2) CHANGE THE FOLLOWING AS PER THE INSTALLATION WORKSHEET.
/**    - FLHQ1 AND FLHQ2
/**
/** *****
/**
```

```
//* STEP 1: PRINT THE CIGINI DEFINITIONS. *  
//* *
```

```
//*****  
//STEP1 EXEC PGM=PRINTINI  
//STEPLIB DD DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR  
//CIGPRINT DD SYSOUT=*
```

CIGV2PIN IVP JCL

Format of CIGV2PIN Output

The following is what the output from Step 1 should look like:

```
-----  
| COMMON |  
-----  
EYECATCHER..... CIG2  
LOAD LIBRARY... CIGT.P0304.LOADLIB  
WORK UNIT..... 3390  
VIO UNIT..... 3390  
ALT INI ALLOWED N  
USING ALTERNATE NO  
CONLIB..... CIGT.STEVE.V39.ECON  
LOCK MECHANISM. ENQ  
JAVALIB DSN.... CIGT.P0304.JAVALIB  
$CONTROL MEMBER $CONTROL  
EMAIL DSN..... CIGT.INTERNAL.WORK  
-----  
| FASTLIST |  
-----  
FASTLIST DB.... CIGT.P0304E.FLSTDB  
ELM DUP RULES..  
(more...)
```

Figure 1.13

Format of Output from Printini

Invoke CIGINFO in TSO

1. Exec the following command from the TSO Command Line as follows:

```
TSO CALL 'flhq1.flhq2.LOADLIB(CIGINFO)'
```

CIGINFO will display current product information.

Step 10: Modify the Invocation Clists

The purpose of this step is to modify the ISRCLIB for ISPF front-end modification. If you are an existing user you may skip this step.

The following table lists the ISRCLIB members used to invoke and access the CIG products in ISPF.

Product	ISRCLIB Member	Manual Reference
Adhoc	ADHLDEF	Adhoc User Guide
FastLIST	FLSTLDEF	FastLIST ISPF User Guide
Package Utilities	PKGULDEF	Package Utilities Reference Guide
Greenhouse	GHR30	Greenhouse User Guide
Merge Tool	AZZISPF	Merge Tool Reference Guide

Product Clist Table

The following illustrates how to invoke FastLIST using the Clist described above:

In TSO/ISPF, go to =6.

Next type: EXEC '*flhq1.flhq2.ISRCLIB(FLSTLDEF)*'

Step 11: Allow applications to be accessed via ISPF

This step allows the CIG products to be accessed via ISPF.

TSO Logon Proc:

If you are going to provide access to the CIG products directly from an ISPF panel, then you will need to add the *flhq1.flhq2.ISRCLIB* (Clist library) to the TSO logon SYSPROC DD name concatenation.

If you do not link list the *flhq1.flhq2.LOADLIB* (load library) then you must add *flhq1.flhq2.LOADLIB* to the TSO logon proc STEPLIB.

To activate a newly created TSO logon proc use the RDEFINE TSOPROC *logonProc* UACC(READ) command where *logonProc* is the name of the newly created TSO logon proc that contains *flhq1.flhq2.LOADLIB* in the STEPLIB concatenation.

In addition, the TSOPROC list must be refreshed using the following command: SETROPTS RACLIST(TSOPROC) REFRESH.

Link listed library:

Link listed libraries are normally found in SYS1.PARMLIB as member PROG00. Add the library *flhq1.flhq2.LOADLIB* as a LNKLIST statement. Issue the following commands to refresh the link list libraries:

```
SET PROG=00  
F LLA,REFRESH
```

Note: PROG=00 would match the last two characters of the member name containing the IEASYSnn member normally found in SYS1.PARMLIB.

ISPF main panel

Update the main ISPF panel to include easy access to the CIG products.

The primary ISPF panel is normally called [ISR@PRIM](#), and is normally located in USER.ISPPLIB, SYS1.LOCAL.ISPFPNLS or ISP.SISPPENU. Check the ISPPLIB concatenation in your TSO Logon Proc for the data set that contains ISR@PRIM.

The following illustrates the ISPF panel changes to add the CIG Merge Tool as selection item 12 on the primary ISPF panel:

```
)AREA SAREA39  
0 Settings    Terminal and user parameters  
1 View       Display source data or listings  
2 Edit       Create or change source data  
3 Utilities   Perform utility functions  
4 Foreground Interactive language processing
```

5 Batch Submit job for language processing
 6 Command Enter TSO or Workstation commands
 7 Dialog Test Perform dialog testing
 8 LM Facility Library administrator functions
 9 CIG Products CIG program development products
 10 SCLM SW Configuration Library Manager
 11 Workplace ISPF Object/Action Workplace
12 Merge Tool CIG Merge Tool for OS/390 and z/OS
 M More Additional CIG Products
)INIT

```

IF (&ZSAR = 'CAL','UPS','SES') &ZCMD = 'SP'
&ZSEL = TRANS (TRUNC (&ZCMD,','))
0,'PGM(ISPISM) SCRNAME(SETTINGS)'
1,'PGM(ISRBRO) PARM(ISRBRO01) SCRNAME(VIEW)'
2,'PGM(ISREDIT) PARM(P,ISREDM01) SCRNAME(EDIT)'
3,'PANEL(ISRUTIL) SCRNAME(UTIL)'
4,'PANEL(ISRFPA) SCRNAME(FOREGRND)'
5,'PGM(ISRJB1) PARM(ISRJPA) SCRNAME(BATCH)
NOCHECK'
6,'PGM(ISRPTC) SCRNAME(CMD)'
7,'PGM(ISPYXDR) PARM(&ZTAPPLID) SCRNAME(DTEST)
NOCHECK
8,'PANEL(ISRLPRIM) SCRNAME(LMF)'
9,'PANEL(ISRDIIS) ADDPOP'
10,'PGM(ISRSCLM) SCRNAME(SCLM) NOCHECK'
11,'PGM(ISRUDA) PARM(ISRWORK) SCRNAME(WORK)'
12,'CMD(AZZISPF)'
M,'PANEL(CIGPRODS)'
X,EXIT
SP,'PGM(ISPSAM) PARM(PNS)'
''',
*,')
&ZTRAIL=.TRAIL
  
```

The following table shows the panel commands need to invoke each product:

Adhoc Reporter	CMD(ADHLDEF)
FastLIST	CMD(FLSTLDEF)
Package Utilities	CMD(PKGULDEF)
Greenhouse	CMD(GHR30)
Merge Tool	CMD(AZZISPF)

Next Step.....

At this point the products have been offloaded and customized to meet your site naming standards.

You can now access the products by selecting the products from the ISPF panel. Once you have displayed the initial product, you should review review the manuals associated with the products that you will be using. The technical documentation is located at <http://www.cigi.net>.

