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United States
Environmental Protection
Agency

Office of
Solid Waste
Washington, DC 20460

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RCRIS System Technical Guide

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RCRIS System Technical Guide

1 INTRODUCTION

1.1 Background and Executive Summary

The Resource Conservation and Recovery Information System (RCRIS) is EPA's computerized information management system for managing the hazardous waste program mandated by the Resource Conservation and Recovery Act (RCRA). RCRIS is written in the FOCUS DBMS language that can be implemented on a wide range of operating platforms from MVS/TSO on a mainframe to the desktop PC under MS-DOS.

RCRIS consists of four mandatory modules and two non-mandatory modules. The four mandatory modules are Handler Identification (HID), Compliance Monitoring and Enforcement (CM&E), Corrective Action (CA), and Permitting/Closure/Post Closure (PMT/CL/PC). Program Management (PM) and Facility Management Planning (FMP) are non-mandatory modules.

A RCRIS translator has the equivalent data of one or more RCRIS modules in a non-RCRIS system. The translator State, through software it develops, creates flat files according to RCRIS flat file specifications. These flat files are then sent electronically to the IBM ES-9000 mainframe at EPA's National Computer Center (NCC) to update the merged database. The merge process loads the flat files into the merged database. Summary and detail reports are created for all the steps involved during the load. For example, an Edit Detail Report is a list of facility IDs rejected during the load.

Merge process and edit reports are available to the State. Optionally, a report of the data successfully loaded into the merged database is available. Also, the Regional update data are available to the translator in both flat file and report forms.

A translator state may use RCRIS in four ways:

1. Translate data for all four mandatory modules
2. Translate data for some modules and use RCRIS to process the remaining data
3. Translate data for some modules and provide data for the remaining modules on manual forms
4. Run RCRIS on a non-standard RCRIS platform, that is, on a mainframe system other than EPA's IBM mainframe at the NCC

The special issues pertaining to the first three types of translators are covered in the RCRIS Translator Guide. This guide will address the needs of States who will be running RCRIS on their own mainframe systems.

RCRIS was initially developed on the PC and then ported to EPA's National Computer Center (EPA/NCC) IBM 3090 mainframe computer at Research Triangle Park (RTP), North Carolina. This MVS environment includes the availability of Time Sharing Option (TSO) and the Interactive System Productivity Facility (ISPF) to provide numerous system level functions. File security is handled by the Resource Access Control Facility (RACF) utility.

A State may implement RCRIS on its own mainframe system. If the State computer system's operating environment supports TSO and FOCUS, the State will receive the RCRIS software by electronic transmission or tape and, with some changes, RCRIS will be ready to run. For those installations where TSO is not available, the system level function calls must be replaced with appropriate substitute commands reflecting available system utilities so that RCRIS can operate. This document is designed to help the system operator or Database Administrator (DBA) to install RCRIS on a local mainframe which may have operating utilities different from those available on the NCC development machine.

RCRIS uses the TSO environment and ISPF services to their full advantage. Specifically, RCRIS makes significant use of ISPF Services, ISPF Panels, Job Control Language (JCL) Skeletons, table lookup, storage of user values, and other services. Window Script Transfer Files are also used in RCRIS to compile FOCUS window files.

If the local operating environment differs from the development environment, the DBA or system operator must carefully consider the way RCRIS relies on its operating environment for support. Users of non-IBM environments or IBM environments which do not support ISPF will need to adapt a large number of programs to provide user interface to RCRIS. In addition, non-IBM users will need to convert Job Control Language (JCL).

The following list summarizes the steps in preparing for installation of RCRIS on a local non-standard platform:

1. Review the implementation strategy under MVS/TSO (Section 2).
2. Review function-by-function list used in RCRIS under MVS/TSO (Appendices B, C, and D).
3. Identify utilities under translator's platform which mimic, with proper input and output, each function in Step 2.

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4. Review the discussions of naming conventions (Appendix E), maintaining previous versions (Section 5), and creating a test/development environment (Section 6).
5. Adopt a maintenance plan and a configuration management methodology.

1.2 Assumptions

This discussion assumes the following:

- o An adequate technical data processing staff is available to the State to develop and maintain a significant software project.
- o The State's hazardous waste management gives that staff adequate resources and guidance for proper life cycle management of a significant software project.
- o The staff understands basic RCRIS concepts.

1.3 Overview of the System Technical Guide

In order to install and run RCRIS on a local mainframe, the system operator or DBA must first understand how RCRIS utilizes the current operating environment. Then the system operator or DBA must plan and design necessary changes in the system software, obtain the RCRIS software, install it (with the changes), and test it. Finally, the DBA or system operator must implement effective ongoing maintenance and configuration management. This guide presents the process step by step.

Section 2 provides an explanation of the RCRIS operating environment on the development machine and of the MVS/TSO system functions used by RCRIS.

Section 3 details the process of RCRIS software distribution. This can be accomplished either by electronic transfer or tape distribution. The RCRIS software received, either by electronic transfer or tape distribution, must be installed on the local machine. Installation of both the initial software and the upgrades is discussed in Section 4. Section 4 focuses on testing and debugging the RCRIS software after installation.

Section 5 presents a maintenance plan and a discussion of configuration management. A sample test form is also included.

No two translator installations will present exactly the same challenges. This guide devotes separate sections to two case studies for installation of translator operations, the first under the MVS/TSO operating environment, and the second in a non-MVS environment. Washington State is the MVS case study (Section 6); Texas is the case study of a successful installation in a non-MVS environment (Section 7).

In order to make work easier in installing RCRIS on a particular system, a series of appendices offer a quick reference to the most frequently used lists, diagrams, and program summaries. Be especially careful in using the appendices that the current RCRIS version matches the version cited at the bottom of each page.

For additional assistance, contact RCRIS User Support at (800) 767-RCRI.

Related Documents

Some other RCRIS documents that the translator might find helpful include the following:

- o RCRIS Users Guide
- o Quick Reference Guide to RCRIS Codes
- o RCRIS Merged Data Base Administration Guide
- o Installation Instructions for RCRIS 4.0.0
- o RCRIS Translator Guide
- o RCRIS Conversion Technical Specifications
- o RCRIS System Startup Guide
- o RCRIS Data Element Dictionary

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In addition, the translator may wish to consult the following NCC and FOCUS documents:

- o TSO Reference Guide
- o FOCUS Simultaneous Usage Reference Manual
- o ISPF Reference Guide
- o RACF Reference Guide

See the RCRIS Users Guide or the RCRIS Merged Data Base Administration Guide for instructions on obtaining related documents.

2 OPERATING ENVIRONMENT

RCRIS was designed for and developed on the IBM 3090-600 computer at the Environmental Protection Agency's National Computer Center (NCC) at Research Triangle Park (RTP), North Carolina. Many translator operations will be using the same basic software developed on the NCC computer, but will be implementing RCRIS on computer systems with different utilities and options, which will have an impact on the way RCRIS functions.

The NCC computer is currently an IBM ES-9021-720 using JES2 with central storage and tape, disk, and drum storage devices. The system is implemented with the Time Sharing Option (TSO/E Version 2, release 3.1) and Interactive System Productivity Facility (ISPF) utilities. The TSO implemented at NCC has text editing capabilities, a remote batch facility for executing programs, and an extensive command procedure (CLIST) capability. Any implementation of RCRIS on a system with different capabilities will require modification of original source code to facilitate a smooth operation of system calls to the various utilities.

Before any discussion of code modification, the DBA or system operator must understand some of the characteristic features and functions of the RCRIS development machine. First, this section discusses the system functions used by RCRIS; these functions are more fully defined in Appendix A. Next comes an explanation of the accounting structure, since several CLIST edits are based on the EPA accounting setup. The final subsections introduce the topics of online and batch processing, report processing, Simultaneous Usage (SU), account and dataset protection, and database descriptive information.

2.1 System Functions and Commands Used by RCRIS

The functions and commands which are used in the RCRIS system CLISTs are listed in Appendix A. These include the following system features:

- o The Interactive System Productivity Facility (ISPF), which provides a menu-driven, full screen interface to TSO.
- o CLIST, the command procedure that allows a sequence of TSO commands to be stored together and provides facilities similar to a high-level programming language. RCRIS utilizes advanced CLIST language features of TSO/E Version 2; these may not be available under earlier TSO Versions.
- o Batch job facility, which provides communication with MVS's job entry subsystem to submit background jobs.

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These features of the development/operating environment or equivalents must be provided in other mainframe environments. RCRIS also utilizes the back-up capability of Generation Data Group (GDG); without the GDG capability, another back-up process must be provided.

In addition, the following functions and commands or their equivalents must be available on the translator's mainframe:

- o CLIST Function: &SYSDSN
- o TSO Commands: ALLOC, ATTRIB, CALL, FREE, PRINTOFF, LISTDSI
- o ASM2 Commands=\$SM, \$AR
- o NCC-Specific Commands: CLR3270, FDSN

Many of these functions are standard on most IBM mainframes which support MVS/TSO; others have equivalents on other IBM TSO and non-IBM systems. If a necessary function does not exist on a translator's system, it must be created.

2.2 Accounting Structure

Accounts are used to identify the ownership of datasets on the NCC system and to track system use for billing purposes. There are two types of accounts: group and user. A group account consists of four characters; a user account consists of a three-character user ID followed by the four character group the user belongs to (iiiiaaa, where iii represents the user account and aaaa represents the group account). It is possible for a user to belong to more than one group. The user ID and group account are required, along with a password, when a user logs on. They are also needed when a user submits a job to run in the background (batch) mode. The ID and group account also establish file ownership rights. Dataset names consist of 'levels'; each level consists of one to eight characters and/or numbers separated by a dot ('.'). The first character of each level must be a letter. The total number of characters in a file name cannot exceed 44. The first level of the dataset name is called the PREFIX and must be a valid group account or a valid ID/group combination; the remaining levels must uniquely identify the dataset in the group or user's directory.

A special type of dataset library, called a Partitioned Dataset (PDS), is available on MVS TSO. It allows multiple files (called members) to be stored in an efficient form, one after the other, and any of these members may be referenced by simply specifying the name of the member in parenthesis after the dataset name. An example of how to reference a member in Partitioned Dataset is: 'iiiiaaa.PARTITIN.DATA.SET(MEMBER1)'.

A user's logon PREFIX (ID/group account combination) is saved by the system at logon; the user does not need to enter it to access datasets in his or her directory. To access a dataset in another user's or group directory, a user must enter the full dataset name, including the PREFIX, enclosed in single quotes. It is possible for a user to change the assumed dataset PREFIX. This is seldom done, however, and the RCRIS system CLISTs assume that the user PREFIX points to the logon account. Examples of valid dataset names are the following:

MARCH.REPORT.DATA (assumed to be in the account specified by the logon PREFIX).

'DONRCRD.MASTER.TRACKING.DATA' (fully qualified name, assumed to be in the user directory DONRCRD, which is not the user's logon PREFIX).

'RCRD.USER.LIBRARY.DATA' (fully qualified dataset assumed to be in the group RCRD, without specifying a user ID).

2.3 Online Processing

To invoke single user RCRIS, the user enters EX 'aaaa.RCRIS.CLIST(RCRIS)' (with aaaa denoting the account) from the TSO READY prompt. After a brief wait, the following screen is displayed:

```

      RRRRRR      CCCCCC      RRRRRR      IIII      SSSSSS
      RR      RR      CC      RR      RR      II      SS      SS
      RR      RR      CC      RR      RR      II      SS      S
      RR      RR      CC      RR      RRR      II      SS
      RRRRRRRR      CC      RRRRRRRR      II      SSSSSSS
      RR      RR      CC      RR      RR      II      SS
      RR      RR      CC      RR      RR      II      S      SS
      RR      RR      CCCCCC      RR      RR      IIII      SSSSSS

```

RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM

If the user logged on using the development or test accounts, the prompt:

ENTER MODE (P)RODUCTION, (T)EST, (D)EVELOPMENT OR (Q)UIT :

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will be presented at the bottom of the screen (otherwise, only the RCRIS banner appears). The MODE selection determines which datasets are included in the allocations for CLISTs (TSO stored command files), FOCEXECs (FOCUS application programs), FOCCOMPs (compiled FOCUS application programs), FOCMSTERS (FOCUS master file descriptions), FMUs (FOCUS window files), and all ISPF datasets. The datasets will be concatenated as follows for each MODE:

P (Production)	USER PDS (Only for FOCEXEC, FOCMSTER, FMU) Production PDS
T (Test)	USER PDS (Only for FOCEXEC, FOCMSTER, FMU) Test PDS Production PDS
D (Development)	USER PDS (Only for FOCEXEC, FOCMSTER, FMU) Development PDS Test PDS Production PDS

Enter the appropriate letter (P/T/D/Q) and press enter. (If the user is not logged on to the production or test account, the MODE prompt will be bypassed and the mode will be internally set to 'P' for production.)

In a few moments, another panel is presented which allows for selection of the database account and database state/origin (see below).

```
*****
*                               R C R I S                               *
*                               ENVIRONMENTAL PROTECTION AGENCY          DATE: 91/07/10 *
*                               VERSION ### 07/05/91                     TIME: 21:09  *
*****
```

```
DATABASE ACCOUNT  >> aaaa
DATABASE ID       >> sso
```

```
CONTINUE (Y/N)    >> Y
```

The Database Account is the account where all the databases and data files are stored. The Database ID describes the database to be selected for the database account. (Because of this remap convention, more than one database can reside in one database account.) For example--

R4M = Region 4 Merge
FLR = Florida Region
FLS = Florida State

The values on this screen will be blank the first time a new user logs in to the RCRIS system. The entered values are validated, and if an error is found, then a message will be displayed. When all fields have been properly entered, they are saved in a table and will be presented the next time this user accesses the RCRIS system.

At this point all data which are needed to invoke RCRIS have been entered. The CLIST will allocate all necessary libraries and databases according to the values supplied for MODE and the database selection panel shown above. The CLIST displays the following screen while processing:

WELCOME TO R C R I S

FILES ARE BEING ALLOCATED, PLEASE STAND BY . . .

The CLIST creates a special dataset 'iiiiaaa.SYSACCNT' (allocated to DDNAME ACC) which contains the selections made by the user. This is passed to FOCUS and is used by the RCRIS system to allocate infrequently used datasets, report output files, and temporary datasets. Six items are passed:

1. The group account that the user logged on as
2. The production account prefix
3. The development account prefix
4. The test account prefix
5. The database prefix (account.state ID) (for example, aaaa.sso)
6. The selected MODE (D/T/P)

These items are all concatenated without any intervening spaces. The RCRIS PROFILE reads these items and equates them to global variables. It is important to check that the length assigned to each item read from this file matches that item's actual length. This dataset is stored in the user's logon directory and is read each time RCRIS is invoked to set certain user defaults.

The DDNAME PROFILE has special significance. It points to a FOCEXEC member which FOCUS will execute upon entry. For single user systems this is allocated to dataset 'aaaa.RCRIS.FOCEXEC.DATA(PROFILSG)', shown below:

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-PROFILSG

```
*****
--* PROGRAM NAME: PROFILSG
--* PROGRAMMER: IBI
--* DATE WRITTEN: 01/08/89
--* COMPANY: GENERAL SCIENCES CORPORATION
--*
--* DATE UPDATED: 04/03/89
--* DATE UPDATED: 10/05/89 J.2. PREFIX = R4DB => PREFIX = &PROG
--*                                -READ ACC FILE FOR PROG VARIABLE
--*                                10/12/89 J.D. REMOVE &&VARIABLES
--*                                11/28/89 D.L. ADDED "FIN" TO BOTTOM OF PROFILE
--*                                02/04/90 SBM ADDED ONLINE FOR SYNAD ERROR
--*                                02/04/90 SBM TSO FREE DD(OFFLINE)
--*                                03/09/90 RJE ADDED -WRITE TO INITIALIZE OFFLINE/OFFLINE2
--*                                02/06/91 DCL ADDED -SET &&ACT=&ACCT;
--*                                02/11/91 DCL ADDED -SET &&SYSTEM VARIABLE TO PROFILE
--*                                02/13/91 DCL ADDED -SET &&ACCT=&ACCT;
--*                                02/21/91 DCL ADDED -SET &&FIL1=2; FOR BATCH REPORTS
--*                                03/11/91 DCL ADDED EX DBRPHEAD FOR NEW MOU ACCESS
--*                                03/20/91 DCL CHG READING ACC FILE FOR NEW VARIABLES
--*                                04/23/91 RJE Remove code for OFFLINE2. (#110052)
--*                                04/25/91 DCL member PROFILE now becomes PROFILSG
--*                                SINGLE USER
--*
--* PROGRAM DESCRIPTION: 'PROFILE' IS A SPECIAL FOCXIEC WHICH WILL BE
--* EXECUTED EVERY TIME FOCUS IS INVOKED. IT IS USED TO SET UP
--* SYSTEM DEFAULTS, ALLOCATE FILES AND EVENTUALLY TO EXECUTE
--* MAIN MENU DRIVER 'RCRAMENU'.
--* *****
--* --- SET SYSTEM DEFAULTS
--*
--* *****
--* 10/05/89 -READ FROM FILE ACC FOR PREFIX INFO
--* *****
--* -READ ACC &&ACCT.A4. &&PROG.A4. &&DVLP.A4. &&TEST.A4. &&DBPROG.A8.,
--*                                ,&&DTP.A1. &&NEXT.A5.
--*
--* -SET &&ACT = &&ACCT;
--* -SET &&SYSTEM = 'TSO';
--* -SET &&BATCHSEL = 'N';
--* -SET &&PRINTCMD = 'PRINTOFF';
--* -SET &&TPMPACK = 'DISK';
--* -SET &&TWKPACK = 'DISK';
--*
--* -SET &&PLACE = ' ';
--* -SET &&STATE = ' ';
--* -SET &&TITLE = ' ';
--* -SET &&EPA = ' ';
--* -SET &&PRT = ' ';
--* -SET &&FIL1 = '2';
--* -SET &&TNT = 0;
--* -SET &DUM = ' ';
--*
--*
--*
```

```

SET PREFIX = &&PROG
SET MSG     = OFF
SET PAUSE   = OFF
SET LINES   = 55
SET LINES/PAGE=55
EX DBRPHEAD
-*
```

```

LET MENU = EX PROFILE
EX FRONTEND
OFFLINE CLOSE
ONLINE
TSO FREE DD(OFFLINE)
-RUN
FIN
```

For Sync machine multi-user systems (see the discussion of Simultaneous Usage in Section 2.6), this is allocated to dataset 'aaaa.RCRIS.FOCEXEC.DATA(PROFILSU)'. It is important that there is no member named PROFILE in any of the datasets concatenated to the DDNAME FOCEXEC. If such a member exists, FOCUS will execute it upon entry instead of the member allocated by the DDNAME PROFILE.

The member PROFILSG reads the variables which were passed by the CLIST, initializes some RCRIS FOCUS global variables, sets up the variables used for report headers, and finally executes the member FRONTEND to display the opening RCRIS menu shown below.

The member PROFILSU performs the same steps as PROFILSG; however, it also sets up a global USE statement that allows the FOCUS databases in the Sync machine to be linked to the RCRIS application programs. When this member has completed the initialization, it calls the member FRONTEND to display the opening RCRIS menu shown below:

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RCRIS Frontend Menu		Version #.#.#	
*****	Region #	Region/State Database	mm/dd/yy *****

Move cursor along the vertical bar at left to select. Press ENTER. Use PF3 to back up.			

Select a database. TableTalk Print FOCUS.OFFLINE report output. Logon to RCRIS Go to the FOCUS prompt. Exit system.
--

When the Logon to RCRIS option is selected from the Main Menu, it calls the FOCEXEC member RCRA, which calls CHKPASS, which in turn displays the security ID and password screen. This module looks in the SECURITY FOCUS file to verify the ID/password entered. If the security entries are valid, the RCRIS main menu appears. At this point the required RCRIS module is selected, and the relevant sub-menus will appear.

The menus extend through several levels. Eventually, a program is selected from the lowest level menu. When a user exits the main FOCUS menu, the program returns to the opening main menu. When a user exits the opening menu, the FOCUS environment is terminated and control returns to the CLIST. The CLIST frees all databases and program libraries and returns to the TSO READY prompt. See Appendix K for a detailed menu map of RCRIS.

2.4 Batch Processing

Batch processing allows a job to run in the system background, thereby freeing the terminal for use in other tasks. All data required by the program must be supplied when the batch job is submitted and all output is either written to a dataset and/or the system print queue. Batch jobs are used in RCRIS to run long reports while continuing other work, such as data entry, without interference.

RCRIS batch jobs utilize several standard IBM system utilities, as well as two special programs: FOCBATCH (PGM=FOCUS) which runs FOCUS in background and is useful for long reports, and TSOBATCH (PGM=IKJEFT01) which allows line-oriented TSO commands to be entered during a batch job, used to delete and/or copy groups of datasets. A quick list of these utilities is given below along with a short explanation for each.

- o IEBGENER - IBM utility to copy datasets
- o IDCAMS - IBM general utility used to initiate GDG (Generation Dataset Group)

- o IEFBR14 - IBM utility to delete datasets
- o IEBCOPY - IBM utility to copy PDSs to and from tape
- o FOCBATCH - Catalogued JCL procedure to run FOCUS in background
- o TSOBATCH - Catalogued JCL procedure to accept TSO line commands in batch
- o HLISECUR - Utility which provides simultaneous usage (SU) capability for a designated set of databases under FOCUS
- o HLIKX - Batch job to terminate simultaneous usage (SU) capability for a designated group of FOCUS databases

Job Control Language (JCL) commands have been written into Skeletons in ISPF. This allows for more efficient coding using SELECT statements and variable substitution inside the JCL.

When a job is submitted for background processing, information needed by the system for accounting, billing, and security is provided by the job card, which appears as the first few lines of any batch job.

On the EPA system, this would be entered as follows:

```
//iii#### JOB (aaaaffff,bbbb),'20 char comment',
//      TIME=(mm,ss),PRTY=p,NOTIFY=iii
/*ROUTE PRINT HOLD
```

Where iii is the user ID

aaaa is the user group account

ffff is the FIMAS ID - this further qualifies the group account and is used for billing

bbbb is the box to which the output listing is routed

mm,ss is the estimated CPU time in minutes and seconds

p is the run priority: 2=standard, 1=overnight/weekend and is 1/2 price

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Dataset names are always entered in fully qualified form in batch jobs, but without the surrounding quotes. All utilities used in RCRIS batch jobs are standard IBM programs, with the possible exception of the PROC TSOBATCH (PGM=IKJEFT01). This utility allows the user to enter most TSO commands within a batch job. It is used in RCRIS to copy or delete groups of datasets which would otherwise require several extra job steps using standard IBM utilities. If this utility is not available, datasets can be deleted by performing the IBM utility IEFBR14 using DISP=(MOD,DELETE,DELETE) once for each dataset to delete. Datasets can be copied by using the IBM utility IEBGENER once for each dataset.

2.5 Report Processing

All reports in RCRIS 4.0.0 run interactively or in batch. The FOCEXEC programs interface with CLISTs and Panels to provide these options. All system variables are derived from Panels or from variables set by the operating system.

Every 'RCRIS FOCEXEC' will have a user PDS. Users may generate their own report programs, save them under their own user account, and concatenate the user PDS with the RCRIS PDS. This will allow these reports to be available in the RCRIS environment. User window files and user master files are also available (FMU and MASTER files).

Device Drivers in all FOCEXECs are standardized. The two device drivers used are--

```
aaaa.RCRIS.FOCEXEC.DATA(PRNDEST1) and  
aaaa.RCRIS.FOCEXEC.DATA(PRNDEST2).
```

Member 'PRNDEST1' prompts the user to print results to the screen, printer, file or batch option if the batch option is available. Member 'PRNDEST2' initiates the ISPF environment and prompts the user for system dependent parameters, for example, the FIMAS ID or bin number.

The CLIST PRNDEST prompts the user to print results to the screen, printer, or file. Once a user selects to print to a file, another menu appears in which the user may enter the file name and continue processing or return to the previous menu to back out of this current operation. If the user has selected to process the report, the PRNDEST routine allows viewing of the file before it is printed using the ISPF Browse utility. The user may cancel the report in ISPF and delete it from the system if not wanted. The output of the run can be saved to a file under the user's account with a predetermined report extension appended to the file name.

Batch reporting is an option available to the user. Upon submission of the report, the user is prompted for a file name. If the file exists under the user's account, before saving the report to a file, the user is prompted with the following four options:



1. Overwrite the existing file
2. Append to the existing file
3. Get another file name
4. Cancel the report

The Editor program `aaaa.RCRIS.FOCEXEC.DATA(MREDPROG)` always executes in batch mode. This program initiates the ISPF environment, passing parameters to CLISTs, and prompts the user for system dependent parameters, for example, the FIMAS ID or DEST.

2.6 Simultaneous Usage (SU)

The standard FOCUS configuration allows a single user to have read/write access to a FOCUS database. Multiple users can also access a FOCUS database in read-only mode for reporting purposes. However, if multiple users need read/write access to the same set of FOCUS database files, the standard configuration will not work.

FOCUS provides a solution through a software component called the Simultaneous Usage (SU) facility. SU manages and synchronizes simultaneous actions against the same set of FOCUS database files by multiple users. This requires that some additional datasets be allocated for the FOCUS database manager (also called a Sync Machine or Sink Machine). These additional datasets are required to communicate information between the FOCUS session and the SU.

Before using SU, the user must initiate the Sink Machine using a special batch job stream. This job must allocate all the user database files which are to be included in the SU environment. These SU database files may also be allocated again in the CLIST which brings up the user application in order to use the Multi-Threaded SU Reporting Facility.

Once the batch job has been successfully completed, the SU environment is available. Multiple users may then perform read/write operations on the same database without loss of data. However, when the SU is running, it is not possible to use SCAN, FSCAN, REBUILD, CREATE, or certain other commands that directly need to modify the database structure; if any of these functions is required, the Sink Machine must be brought down with another special batch job. (All users should be off the application when this is done.) The jobs to bring up and shut down the SU require special system privileges to run on the EPA IBM at RTP, although this is not true of every installation. See FOCUS Simultaneous Usage Reference Manual for installation and fine-tuning information and the Database Administration Section of the RCRIS Users Guide or RCRIS Merged Data Base Administration Guide for information on existing routines supporting the use of SU.

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2.7 Account and Dataset Protection

Account and dataset protection is provided by the Resource Access and Control Facility (RACF). Once a dataset is created, it may be placed under RACF control. The user will need to delegate appropriate levels of access at this point. This allows the dataset owner to delegate different levels of access to datasets under the user's account on a file-by-file and/or global basis. Access can be--

- o None, Read, Update (read/write)
- o Control (read/write, create/delete/rename)
- o Alter (read/write, create/delete/rename, change access list for dataset)

Other options are available, such as logging invalid attempts and allowing access to datasets only through certain programs.

2.8 RCRIS Programs on the NCC Mainframe

RCRIS is composed of the following sets of programs:

- o FOCEXEC - FOCUS DBMS application programs
- o FOCCOMP - FOCUS DBMS compiled application programs
- o MASTER - FOCUS Master File Descriptions
- o CLIST - TSO command procedures
- o PANELS - TSO ISPF menu programs
- o MSGS - TSO ISPF error messages

- o **FMU - FOCUS DBMS compiled window menus**
- o **TRF - Window PC/mainframe transfer files**
- o **SKELS - ISPF Dataset which generates customized JCL**
- o **TABLES - ISPF-supported database which stores values**

See Appendix L for a list of FOCUS database files and table lookup files by module.

RCRIS System Technical Guide

3 SOFTWARE DISTRIBUTION FOR RCRIS

The Translator Tape Creation/Electronic File Transfer (TTC/EFT) menu allows implementers to either generate a tape of the RCRIS software or electronically send the RCRIS software to their mainframe or minicomputer. Three categories of transmission can be selected from a menu:

- o Generate a tape for an IBM mainframe
- o Generate a tape for a non-IBM system
- o Electronically send the datasets to another IBM system which is linked to the EPA network

In addition, each of the above categories can be further qualified into sub-selections:

- o Generate/send the entire RCRIS system
- o Generate/send all changes since the last major release (e.g., cumulative changes from release #.0.0 through release #.#.#)
- o Generate/send only the changes for the current version of RCRIS

Note that EPA has converted its tape drives from reel (round) format to cartridge (square) format. Cartridge tapes offer many advantages over reel tapes such as: (1) greater storage capacity, (2) increased reliability, (3) automatic mounting and dismounting without operator intervention, and (4) easier handling. The default tape device for the EPA system has been changed from reel to cartridge; the FILETRAN program therefore has been changed to accommodate the square tape format. This change required only a minor program update and does not in any way affect the user interface.

It is still possible to create round tapes, however this requires special processing. Between one and three tapes will be required, depending on the tape option selected and the RCRIS version. Contact RCRIS User Support for full details ((800)-767-RCRI). Then it will be necessary to contact EPA Computer User Support in North Carolina ((800)-334-2405) to purchase the round tapes. It will be necessary to obtain the round tapes in advance and to have them assigned volume serial numbers in the EPA system tape library. Finally, RCRIS User Support will need to be called to request a special run to create a RCRIS round format translator tape. The complete process will require several days to complete, and it may be a week or two before the tape finally arrives at the translator's facility. Given the foregoing, it is strongly recommended

that translators install or have access to cartridge tape drives. States with IBM MVS/TSO systems who are linked to the EPA network can also use options 7, 8, or 9 to electronically send the RCRIS datasets to their site.

To access the TTC/EFT menu, enter--

```
EX 'RCRS.RCRIS.CLIST(FILETRAN)'
```

from the TSO READY prompt. If the user is logged on under the RCRIS development or test account, the following prompt will appear:

```
Enter MODE: (P)roduction, (T)est, (D)evelopment, or QUIT ?
```

Enter the appropriate choice and press <ENTER>. The field will be edited and the system will display a warning message and reprompt for a value if the input is invalid. If the user is logged on to another system account, the mode will internally be set to production. Next, the message--

```
Loading File Transfer System menu.....
```

will be displayed while the system datasets are being allocated, followed by three stars (***) on the next line several seconds later. Press <ENTER> once. After another few seconds, the menu shown below will appear:

RCRIS System Technical Guide

```
*****
*               RCRIS FILE TRANSFER SYSTEM               *
*   U.S. ENVIRONMENTAL PROTECTION AGENCY   DATE: mm/dd/yy *
*   VERSION   #.#.#   mm/dd/yy   TIME: hh:mm   *
*****
```

Translator Tape Creation / Electronic File Transfer Main Menu

1. Complete RCRIS IBM Tape (PDS)
2. RCRIS Changes IBM Tape (PDS)
3. RCRIS V #.#.# IBM Tape (PDS)

4. Complete RCRIS Non-IBM Tape (Flat Files)
5. RCRIS Changes Non-IBM Tape (Flat Files)
6. RCRIS V #.#.# Non-IBM Tape (Flat Files)

7. Complete system using TSO XMIT (PDS)
8. RCRIS Changes using TSO XMIT (PDS)
9. RCRIS V #.#.# using TSO XMIT (PDS)

- X. EXIT

SELECTION==>

Where #.#.# is replaced by the current RCRIS version number.

Options 1, 2, and 3 will generate tapes which are ONLY suitable for IBM systems which support the Partitioned Dataset (PDS) dataset structure. Tapes generated with this option can not be read by non-IBM systems. Each option above submits a batch job which utilizes the IBM IEBCOPY utility to convert each of the RCRIS system partitioned datasets (PDS) to serial format on tape. This is a very efficient method for copying the datasets to another IBM system, since the other system can use its IEBCOPY utility to create an identical copy of the original PDS.

Options 1, 2, and 3 should be used for generating tapes whenever possible because the processing of PDS datasets using the IEBCOPY utility is significantly faster and more efficient than the overhead required to convert these datasets a format suitable for non-IBM systems. The batch jobs which are submitted by these options typically require between one hour for the full system tape (Option 1) down to 15 minutes for the current version only tape (Option 3).

Options 4, 5, and 6 will generate tapes which can be used on any non-IBM system. These options convert each member of each PDS to a fully qualified file name on the tape. Since the RCRIS system consists of about 2,500 programs, screens, message files, JCL files, databases, and data files, this involves significant overhead. The time required for these options ranges from 8 hours for the full RCRIS system (Option 4) down to 2 hours for the current version only tape (Option 6).

Options 7, 8, and 9 will allow states with IBM mainframes which are linked into the EPA network to have their datasets sent electronically to their system. The advantage of this option is that the datasets can be downloaded on the state system almost immediately. Typically, the full system can be sent to the State IBM system input queue within two hours (if the client system is ready to receive the datasets). There has been little testing of this option; therefore, the time required may vary appreciably from the above estimate.

If it is necessary to run more than one TTC/EFT option simultaneously or if an option must be run multiple times in the same session, it will be necessary to exit from the Main Menu and select a different directory, either by using the PROFILE PREFIX command, or by logging into a different directory. Failure to do this will result in system dataset contention and the failure of all jobs submitted under the current account.

Detailed descriptions and instructions for each of the menu options are presented below in numerical menu order:

3.1 Options 1, 2, and 3—Create RCRIS IBM Tape

When to use: Option 1--To create a tape of the entire RCRIS system for an IBM mainframe which supports the PDS structure.

Option 2--To create a tape of all changed programs for the current major RCRIS release for an IBM mainframe which supports the PDS structure. (For example, if the current version of RCRIS is 4.x.x, then the tape will contain all changes from version 4.0.0 to version 4.x.x)

Option 3--To create a tape of all changed programs for the most recent RCRIS release for an IBM mainframe which supports the PDS structure. (For example, if the current version of RCRIS is 4.x.x, then the tape will contain only the changes for that version.)

Advantages: Option 1 batch job runs significantly faster than menu choice 4, which is the corresponding option for making a tape for a non-IBM system. Options 2 and 3 batch jobs run significantly faster than Option 1 (create IBM tape of complete RCRIS system), since only changed programs in the current major release are copied.

RCRIS System Technical Guide

Disadvantages: Tape can only be read on an IBM mainframe which supports PDSs and has the IEBCOPY utility. In addition, Options 2 and 3 should only be selected if the full RCRIS system already exists on the local IBM mainframe.

After the user selects Option 1, 2, or 3 from the TTC/EFT main menu, the program will prompt for the system password as shown below:

Enter system password >

Enter the password and press <ENTER>. (Authorized persons can obtain the password by calling the RCRIS User Support Hotline at (800) 767-RCRI.) If the correct password is entered, the menu shown below is displayed for Option 1:

```
*****
*                               W E L C O M E                               *
*                               *                                           *
*           T O       T H E       I B M       M V S       O N L Y           *
*           -----
*   F U L L   R C R I S   T A P E   C R E A T E   U T I L I T Y   *
*   -----
*****
```

This program will submit a batch job under your user ID using the account specified in the system prefix to create a tape containing all the RCRIS FOCUS programs and RCRIS FOCUS databases in the group account pppp. The program prompts for the FIMAS ID, the box number to route the listing to, and the MOU state.

The tape created by this job will contain partitioned datasets (PDS) which have been copied using the IEBCOPY utility. This format will only be usable on IBM mainframes which support this file structure.

DO YOU WANT TO PROCEED (Y/N) ?

Where pppp is the account containing the RCRIS production system.

If Option 2 or 3 was chosen, the menu will display MVS ONLY/CHANGES instead of MVS ONLY/FULL.

Input Y and press <ENTER> to proceed or N and press <ENTER> to return to the TTC/EFT main menu. When Y is entered, the screen will clear, and prompts will be displayed. For Option 1, the program prompts for the FIMAS ID, the box number to route the listing to, and the MOU state, as shown below:

***** Enter QUIT for any prompt to exit to READY prompt *****

Enter 5 digit FIMAS ID used to submit the batch jobstream ?

Enter the 4 char BOX NUMBER to route the output to (x###) ?

Enter the 3 char ID of the MOU table to be copied (xss) ?

The Facility Impact Monitoring and Analysis System (FIMAS) code identifies a specific ADP system or activity and associates computer usage statistics with that activity. The format is xxxxm, where xxxx is an acronym identifying the system and m is a mode character (P, D or T).

For Options 2 and 3, the program prompts for the FIMAS ID and the box number to route the listing to (but not the MOU state).

Enter the appropriate values for each of the above prompts. If an invalid value is detected in any of the above fields, a warning message is issued, and the prompt is redisplayed. To exit the program and return to the TTC/EFT main menu, enter QUIT for any of the above prompts.

After all of the above questions have been answered, the system clears the screen and displays the supplied values for confirmation as shown below:

RCRIS System Technical Guide

RCRIS FULL TRANSLATOR TAPE CREATE PARAMETERS:
(IBM / MVS MAINFRAME ONLY VERSION)

FINAS ID for batch submit: xxxxx

Route print to box number: x##

Using MOU table for state: xxS

IS THIS CORRECT (Y/N/QUIT) ?

Where x represents a letter and # represents a digit.

(Remember that for Options 2 and 3, the MOU table prompt will not be displayed.) Type Y and press <ENTER> to accept the values and continue, type N and press <ENTER> to reject the current values and to be reprompted for new ones, or type QUIT to exit the program and return to the TTC/EFT main menu. Any other response will cause the system to redisplay the above screen.

At this point, all values required by the tape job have been supplied. The system will then prompt:

Do you want to submit RCRIS TAPE CREATE batch job (Y/N) ?

Answer Y and press <ENTER> to continue, N or QUIT and press <ENTER> to abort; any other response will cause the above prompt to be redisplayed.

The program will copy the required RCRIS datasets from the production account to the user account. Each dataset will have the prefix 'iiiiaaa.iii' where iii is the logon user ID and aaaa is the logon user account. This should result in unique dataset names for the user account. The datasets must be copied to the user account, since the tape create batch job requires exclusive use of the datasets from the time that the job enters the system batch input queue until the tape creation job finishes execution.

The copying operation requires several minutes to complete since all PDSs and FOCUS databases are being copied. The following messages are displayed before and after the copy step:

*** Please wait while datasets are copied to account iiiiaaaa ***
*** Note that this will be a long wait of several minutes ***

*** All RCRIS software datasets have been successfully copied ***

Where iii is the user ID and aaaa is the user account.

For Options 2 and 3, the screen will display "changes" instead of "software."

The FOCEXEC members

CHKACCES
CHKACCE2
DBRPSECU
DBUPSECU

and the FOCMASTER member

SECURITY

are encrypted in the production RCRIS system, since they contain the database master password. These members are replaced by decrypted members of the same name which have had the RCRIS system password removed.

At this point, all preparation required to submit the tape job has been completed. The program then calls ISPF to customize the JCL stream, submits the job, and displays the following message:

Job to create FULL IBM RCRIS TAPE has been submitted.

The JCL to unload the tape is contained
in the dataset 'iiiiaaaa.LOADAPE.CNTL'

Please record the job number displayed above and press <ENTER>:

Where iii is the logon user ID and aaaa is the logon user account.

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For Options 2 and 3, the screen will display CHANGES IBM RCRIS TAPE instead of FULL IBM RCRIS TAPE.

After the user presses <ENTER>, the program displays a final screen which gives brief instructions on how to fetch a job using the SDSF utility (shown below):

```
*****  
*  BATCH JOB TO CREATE IBM FORMAT RCRIS TAPE HAS BEEN SUBMITTED  *  
*****
```

To access job output, type SDSF O <ENTER> at the TSO READY prompt. To select job for viewing, move cursor opposite desired job and type S <ENTER> in the leftmost column marked NP. Use <PF7>, <PF8>, up and down arrows to scroll through output. Use <PF3> to exit browse. To purge output, type P next to job in NP column. To route output, move cursor to DEST column of desired job number and overtype field with remote number. To exit SDSF, press <PF3> repeatedly until back at TSO READY prompt.

Be sure to note the assigned tape number from the job listing and the tape expiration date: yyddd - these will be needed when the tape is restored.

Note that the output of the job is not available for viewing until the job has completed execution.

For help or more info call RCRIS User Support at (800) 767-RCRI

Press <ENTER> to continue ***

Where yyddd is the year and Julian day tape expiration date.

After the user presses <ENTER>, the program exits back to the TTC/EFT main menu.

3.2 Options 4, 5, and 6--Create RCRIS non-IBM Tape

Three options on the Translator Tape Creation/Electronic File Transfer (TTC/EFT) allow the translator to generate a tape of the RCRIS software for installation on a non-IBM/non-MVS system. The TTC/EFT main menu below shows these as Options 4, 5, and 6:

```

*****
*          RCRIS FILE TRANSFER SYSTEM          *
*          U.S. ENVIRONMENTAL PROTECTION AGENCY  DATE: mm/dd/yy *
*          VERSION  #.#.#  mm/dd/yy  TIME: hh:mm *
*****

```

Translator Tape Creation / Electronic File Transfer
Main Menu

1. Complete RCRIS IBM Tape (PDS)
2. RCRIS Changes IBM Tape (PDS)
3. RCRIS V #.#.# IBM Tape (PDS)

4. Complete RCRIS Non-IBM Tape (Flat Files)
5. RCRIS Changes Non-IBM Tape (Flat Files)
6. RCRIS V #.#.# Non-IBM Tape (Flat Files)

7. Complete system using TSO XMIT (PDS)
8. RCRIS Changes using TSO XMIT (PDS)
9. RCRIS V #.#.# using TSO XMIT (PDS)

- X. EXIT

SELECTION→

When to use:

Option 4--To create a tape of the entire RCRIS system for a non-IBM system:

Option 5--To create a tape of all changed programs for the current major RCRIS release for a non-IBM system. (For example, if the current version of RCRIS is 4.x.x, then the tape will contain all changes from version 4.0.0 to version 4.x.x)

Option 6--To create a tape of all changed programs for the most recent RCRIS release for a non-IBM system. (For example, if the current version of RCRIS is 4.x.x, then the tape will contain only the changes for that version.)

Advantages:

Tape can be unloaded on any non-IBM system. Option 5 and 6 batch jobs run significantly faster than Option 4 (create non-IBM tape of complete RCRIS system), since only changed programs in the current major release are copied.

RCRIS System Technical Guide

Disadvantages: Significantly more processing time is required for batch job to convert partitioned datasets (PDSs) to non-IBM format. In addition, Options 5 and 6 should only be selected if the full RCRIS system already exists on a non-IBM computer.

After the user selects Option 4, 5, or 6 from the TTC/EFT main menu, the program will prompt for the system password as shown below:

Enter system password >

Enter the password and press <ENTER>. (Authorized persons can obtain the password by calling the RCRIS User Support Hotline at (800) 767-RCRI.) If the correct password is entered, the screen shown below is displayed for Option 4:

```
*****
*                                     *
*               W E L C O M E       *
*                                     *
*      T O       T H E       N O N   I B M   M V S   *
*      ----- *
* F U L L   R C R I S   T A P E   C R E A T E   U T I L I T Y *
* ----- *
*****
```

This program will submit a batch job under the user's ID, using the account specified in the system prefix to create a tape containing all the RCRIS FOCUS programs and RCRIS FOCUS databases in the group account pppp.

The tape created by this job will have all PDS members converted to sequential files. It is suitable for systems which do not support the partitioned dataset (PDS) file structure. If the local system is IBM/MVS, run the IBM tape option instead.

DO YOU WANT TO PROCEED (Y/N) ?

Where pppp is the account containing the RCRIS production system.

If Option 5 or Option 6 was selected, the screen will read NON IBM MVS/CHANGES instead of NON IBM MVS/FULL.

Input Y and press <ENTER> to proceed or N and press <ENTER> to return to the TTC/EFT main menu. When Y is entered, the screen will clear, and prompts will be displayed. In Option 4, the program prompts for the FIMAS ID, the box number to route the listing to, and the MOU state, as shown below:

```
***** Enter QUIT for any prompt to exit to READY prompt *****  
Enter 5 digit FIMAS ID used to submit the batch jobstream  ?  
Enter the 4 char BOX NUMBER to route the output to (x###) ?  
Enter the 3 char ID of the MOU table to be copied (xss) ?
```

The Facility Impact Monitoring and Analysis System (FIMAS) code identifies a specific ADP system or activity and associates computer usage statistics with that activity. The format is xxxxm, where xxxx is an acronym identifying the system and m is a mode character (P, D, or T).

For Options 2 and 3, the program prompts for the FIMAS ID and the box number to route the listing to (but not the MOU state).

Enter the appropriate values for each of the above prompts. If an invalid value is detected in any of the above fields, a warning message is issued, and the prompt is redisplayed. To exit the program and return to the TTC/EFT main menu, enter QUIT for any of the above prompts.

After all of the above questions have been answered, the system clears the screen and displays the supplied values for confirmation as shown below:

RCRIS System Technical Guide

RCRIS FULL TAPE UTILITY CREATE PARAMETERS:

FIMAS ID for batch submit: XXXXX

Route print to box number: X###

Using MOU table for state: XXS

IS THIS CORRECT (Y/N/QUIT) ?

Where x represents a letter and # represents a digit.

(Remember that for Options 5 and 6, the MOU table prompt will not be displayed.) Type Y and press <ENTER> to accept the values and continue, type N and press <ENTER> to reject the current values and to be reprompted for new ones, or type QUIT to exit the program and return to the TTC/EFT main menu. Any other response will cause the system to redisplay the above screen.

At this point, all values required by the tape job have been supplied. The system will then prompt:

Submit RCRIS TRANSLATOR TAPE CREATE batch job (Y/N) ?

Answer Y and press <ENTER> to continue or N or QUIT and press <ENTER> to abort; any other response will cause the above prompt to be redisplayed.

The program will copy the required RCRIS datasets from the production account to the user account. Each dataset will have the prefix 'iiiiaaa.iii' where iii is the logon user ID and aaaa is the logon user account. This should result in unique dataset names for the user account. The datasets must be copied to the user account since the tape create batch job requires exclusive use of the datasets from the time that the job enters the system batch input queue until the tape creation job finishes execution.

The copying operation requires several minutes to complete since all PDSs and FOCUS databases are being copied. The following messages are displayed before and after the copy step:

```
*** Please wait while datasets are copied to account iiii aaa ***  
*** Note that this will be a long wait of several minutes , ***  
*** All RCRIS software datasets have been successfully copied ***
```


- Where iii is the user ID and aaaa is the user account.
- For Options 5 and 6, the screen will display "changes" instead of "software."

The FOCEXEC members

CHKACCES
CHKACCE2
DBRPSECU
DBUPSECU

and the FOCMSTER member

SECURITY

are encrypted in the production RCRIS system, since they contain the database master password. These members are replaced by decrypted members of the same name which have had the RCRIS system password removed.

At this point, all preparation required to submit the tape job has been completed. The program copies the required JCL into the user account, calls the system editor to customize it, then submits the job and displays the following message:

Job to create FULL NON IBM RCRIS TAPE has been submitted.

The list of files written to the tape is contained
in dataset 'iiiaaaa.RCRIS.TAPLST'

Please record the job number displayed above and press <ENTER>:

Where iii is the logon user ID and aaaa is the logon user account.

RCRIS System Technical Guide

For Options 5 and 6, the screen will display CHANGES NON-IBM RCRIS TAPE instead of FULL NON-IBM RCRIS TAPE, and the dataset will be 'iiiiaaa.RCRIS.TAPPLS' instead of 'iiiiaaa.RCRIS.TAPLST'.

After the user presses <ENTER>, the program displays a final screen which gives brief instructions on how to fetch a job using the SDSF utility (shown below):

```
*****  
BATCH JOB TO CREATE RCRIS TRANSLATOR TAPE HAS BEEN SUBMITTED  
*****
```

To access job output, type SDSF O <ENTER> at the TSO READY prompt. To select job for viewing, move cursor opposite desired job and type S <ENTER> in the leftmost column marked NP. Use <PF7>, <PF8>, up and down arrows to scroll through output. Use <PF3> to exit browse. To purge output, type P next to job in NP column. To route output, move cursor to DEST column of desired job number and overwrite field with remote number. To exit SDSF, press <PF3> repeatedly until back at TSO READY prompt.

Be sure to note the assigned tape number from the job listing and the tape expiration date: yyddd - these will be needed when the tape is restored.

Note that the output of the job is not available for viewing until the job has completed execution.

For help or more info call RCRIS User Support at (800) 767-RCRI

Press <ENTER> to continue ==>

Where yyddd is the year and Julian day tape expiration date.

After the user presses <ENTER>, the program exits back to the TTC/EFT main menu.

3.3 Options 7, 8, and 9--Electronic Distribution

In order to electronically send RCRIS software to an IBM/MVS/TSO system, a translator may use Options 7, 8, and 9 on the Translator Tape Creation/Electronic File Transfer (TTC/EFT) menu, shown below:

```
*****
```

```

*          RCRIS FILE TRANSFER SYSTEM          *
*          U.S. ENVIRONMENTAL PROTECTION AGENCY  DATE: mm/dd/yy *
*          VERSION  #.#.#  mm/dd/yy  TIME: hh:mm *
*****

```

Translator Tape Creation / Electronic File Transfer Main Menu

1. Complete RCRIS IBM Tape (PDS)
2. RCRIS Changes IBM Tape (PDS)
3. RCRIS V #.#.# IBM Tape (PDS)
4. Complete RCRIS Non-IBM Tape (Flat Files)
5. RCRIS Changes Non-IBM Tape (Flat Files)
6. RCRIS V #.#.# Non-IBM Tape (Flat Files)
7. Complete system using TSO XMIT (PDS)
8. RCRIS Changes using TSO XMIT (PDS)
9. RCRIS V #.#.# using TSO XMIT (PDS)
- X. EXIT

SELECTION==>

When to use: Option 7--To electronically send the complete RCRIS system to an IBM mainframe which is linked to the EPA network and supports the PDS file structures.

Option 8--To electronically send all changed programs for the current RCRIS system to an IBM mainframe which is linked to the EPA network and supports the PDS file structure. (For example, if the current version of RCRIS is 4.x.x, then all changes from version 4.0.0 to version 4.x.x will be sent.)

Option 9--To electronically send all changed programs for the most recent RCRIS release to an IBM mainframe which is linked to the EPA network and supports the PDS file structure. (e.g., if the current version of RCRIS is 4.x.x, then only the changes for version 4.x.x will be sent)

Advantages: RCRIS programs are available almost immediately after being sent--provided that the destination system is ready to receive them. Batch job executes quickly. Cost of purchasing tape is avoided. Batch jobs under Options 8 and 9 run faster than Option 7, since only changed programs are copied.

RCRIS System Technical Guide

Disadvantages: Can only be used by states which have IBM mainframes linked to the EPA network. IBM system must support the PDS file structure and must have the IEBCOPY utility. In addition, Options 8 and 9 should only be selected if the full RCRIS system already exists on the state IBM mainframe.

After the user selects Option 7, 8, or 9 from the TTC/EFT main menu, the program will prompt for the system password as shown below:

Enter system password >

Enter the password and press <ENTER>. (Authorized persons can obtain the password by calling the RCRIS User Support Hotline at (800) 767-RCRI). If the correct password is entered, the menu shown below is displayed:

```
*****
*                                     *
*               W E L C O M E       *
*                                     *
*       T O       T H E       I B M       M V S       O N L Y
*       -----
*   F U L L   R C R I S   F I L E   T R A N S M I T   U T I L I Y
*   -----
*****
```

This program will submit a batch job under your user ID using the account specified in the system prefix to transmit all RCRIS FOCUS programs and RCRIS FOCUS databases in the group account pppp to your system. The program prompts for the FIMAS ID, the box number to route the listing to, and the MOU state.

The datasets sent by this job will contain partitioned datasets (PDS) which have been copied using the IEBCOPY utility. This format will only be usable on IBM mainframes which support this file structure.

DO YOU WANT TO PROCEED (Y/N) ?

Where pppp is the account containing the RCRIS production system.

If Option 8 or Option 9 was selected, the screen will read MVS ONLY/CHANGES instead of MVS ONLY/FULL.

Input Y and press <ENTER> to proceed or N and press <ENTER> to return to the main menu. The screen will clear, and the following prompts will be displayed for Option 7:

***** Enter QUIT for any prompt to exit to READY prompt *****

Enter 5 digit FIMAS ID used to submit the batch jobstream ?

Enter the 4 char BOX NUMBER to route the output to (x###) ?

Enter NODE.USER address/user ID for the remote system ?

Enter the 3 char ID of the MOU table to be copied (xss) ?

The Facility Impact Monitoring and Analysis System (FIMAS) code identifies a specific ADP system or activity and associates computer usage statistics with that activity. The format is xxxxm, where xxxx is an acronym identifying the system and m is a mode character (P, D, or T).

If Option 8 or Option 9 was selected, the screen will prompt for the FIMAS ID, the BOX NUMBER, and NODE.USER (but not for the MOU state).

Enter the appropriate values for each of the above prompts. If an invalid value is detected in any of the above fields, a warning message is issued, and the prompt is redisplayed. To exit the program and return to the TTC/EFT main menu, enter QUIT for any of the above prompts.

After all of the above questions have been answered, the system clears the screen and displays the supplied values for confirmation as shown below:

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RCRIS FULL TRANSLATOR DATASET TRANSMISSION PARAMETERS:
(I B M / M V S MAINFRAME ONLY VERSION)

FIMAS ID for batch submit: xxxxx

Route print to box number: x###

NODE.ID of remote system: xxx.xxx

Using MOU table for state: xxs

IS THIS CORRECT (Y/N/QUIT) ?

Where x represents a letter and # represents a digit.

(Remember that the MOU state prompt will not appear under Option 8 or Option 9.) Type Y and press <ENTER> to accept the values and continue, type N and press <ENTER> to reject the current values and to be reprompted for new ones, or type QUIT to exit the program and return to the TTC/EFT main menu. Any other response will cause the system to redisplay the above screen.

At this point, all values required by the TSO batch datasets transmit job have been supplied. The system will then prompt:

Do you want to submit RCRIS DATASET TRANSMISSION (Y/N) ?

Answer Y and press <ENTER> to continue or N or QUIT and press <ENTER> to abort; any other response will cause the above prompt to be redisplayed.

The program will copy the required RCRIS datasets from the production account to the user account. Each dataset will have the prefix 'iiiiaaa.iii' where iii is the logon user ID and aaaa is the logon user account. This should result in unique dataset names for the user account. It is necessary to copy the datasets to the user account since the electronic transmission batch job requires exclusive use of the datasets from the time that the job enters the system batch input queue until all the files have been transmitted to the other system.

The copying operation requires several minutes to complete since all PDSs and FOCUS databases are being copied. The following messages are displayed before and after the copy step:

```
*** Please wait while datasets are copied to account iiiaaa ***
*** Note that this will be a long wait of several minutes ***
*** All RCRIS software datasets have been successfully copied ***
```

Where iii is the logon user ID and aaaa is the logon user account.

The FOCEXEC members

```
CHKACCES
CHKACCE2
DBRPSECU
DBUPSECU
```

and the FOCMSTER member

SECURITY

are encrypted in the production RCRIS system, since they contain the database master password. These members are replaced by decrypted members of the same name which have had the RCRIS system password removed.

At this point, all preparation required to submit the electronic transmission batch job has been completed. The program then calls ISPF to customize the JCL stream, submits the job, and displays the following message:

Job to transmit FULL IBM RCRIS SYSTEM has been submitted.

To retrieve the datasets on the other system, enter the RECEIVE or equivalent command at the TSO READY prompt and follow the on-screen instructions.

Please record the job number displayed above and press <ENTER>:

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For Options 8 and 9, the screen will display CHANGES instead of FULL.

After <ENTER> is pressed, the program displays a final screen which gives brief instructions on how to fetch a job using the SDSF utility (shown below):

```
*****  
*   BATCH JOB TO TRANSMIT FULL RCRIS SYSTEM HAS BEEN SUBMITTED   *  
*****
```

To access job output, type SDSF O <ENTER> at the TSO READY prompt. To select job for viewing, move cursor opposite desired job and type S <ENTER> in the leftmost column marked NP. Use <PF7>, <PF8>, up and down arrows to scroll through output. Use <PF3> to exit browse. To purge output, type P next to job in NP column. To route output, move cursor to DEST column of desired job number and overtype field with remote number. To exit SDSF, press <PF3> repeatedly until back at TSO READY prompt.

Since the TRANSMIT command creates several batch jobs, there will be several entries with the same jobname. The JCL listing will usually be located about halfway in the output list.

Note that the output of the job is not available for viewing until the job has completed execution.

For help or more info call RCRIS User Support at (800) 767-RCRI

Press <ENTER> to continue ***

After <ENTER> is pressed, the program exits back to the TTC/EFT main menu.

4 SOFTWARE INSTALLATION

The installation of RCRIS on either a standard or non-standard platform system follows the same general steps. Some of these steps may need modification to include platform-specific preparation. For specifics about installation on particular non-standard platforms, refer to the case studies in Sections 6 and 7.

4.1 Establish Account System Configuration

Before the RCRIS software can be installed on any system, a State must set up the user accounts required for development, testing, and production. While the procedures may differ on the local system, the general procedures include the following:

- o Setting up development, test, and production accounts.
- o Creating security on accounts
- o Establishing naming conventions for software and databases

A single account structure is now used. This allows only one set of production software under the RCRS account, providing more stability and ease of maintenance. Database naming conventions allow databases to reside in more than one account. This allows users to test production software on their own test databases.

The following lines in the CLIST are used to assign the accounts:

```
-----
/* ASSIGN PRODUCTION, DEVELOPMENT AND TEST ACCOUNTS
SET &PROG = &STR(RCRS)
SET &DVLP = &STR(RCRD)
SET &TEST = &STR(RCRT)
-----
```

RCRS is the production account.
RCRD is the development account.
RCRT is the test account.

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RCRIS CLISTS contain three variables: (1) &PROG, (2) &DVLP, and (3) &TEST. The value of these three variables must be changed in order to use another accounting structure. The main CLISTs to alter are RCRIS and MERGPRO.

Users signing on as the above accounts have an option to run production, test or development software. Others can only run production software. The following illustrates the CLIST code which determines if the user will be prompted for the system modes. See Section 2.3 for a discussion of dataset concatenations for each MODE.

```
IF &SUBSTR(4:6,&SYSPREF) EQ &STR(RCR) OR      +
  &SUBSTR(4:5,&SYSPREF) EQ &STR(KH) THEN DO
WRITE
  ENTER MODE (P)RODUCTION, (T)EST, (D)EVELOPMENT OR +
(Q)UIT :
READ &MODE

  IF &MODE NE &STR(P) AND &MODE NE &STR(T) AND &MODE NE &STR(D) AND +
    &MODE NE &STR(Q) THEN DO
  WRITE
  WRITE          INVALID VALUE, PRESS ENTER TO CONTINUE
  READ &DUMMY
  GOTO WELCOME
  ENDO
  IF &MODE EQ &STR(Q) THEN GOTO QUIT99
END
```

4.2 Install Software on the State Development Account

After the accounts have been set up, the RCRIS system must be received electronically or on tape, as discussed in Section 3.

4.2.1 Receive Software Transmitted by TSO XMIT Command

To receive the datasets which have already been sent electronically (see Section 3.3), the RECEIVE command is used by the receiving system. This command should be run under interactive TSO since it requests user input. Simply enter RECEIVE at the TSO READY prompt.

The system will check to see if any datasets have been received; if so, the system will enter interactive mode with the user. First, the name of the first dataset sent will be displayed and a prompt will be displayed. A user can enter "?" to list the attributes of the dataset. If a user

wants to create a dataset having the same name (except for the prefix), then he or she enters only a carriage return. The dataset can be given a new name by entering DS(newname) on the prompt line or it can be deleted from the receive queue by entering DEL. If the dataset name already exists in the user catalog, a warning message will be displayed. A user can overwrite the old dataset, or use the DS(...) option to assign a new name. These prompts will be repeated for each dataset which is to be received. To terminate the dialog until a later time, type "END" at any prompt.

This command will generate large amounts of output to the screen as the dataset is being generated in the receiver's user account. This is especially true in the case of a PDS, where one line is written to the screen for each member which is successfully restored. Unfortunately, since this is an interactive process, it should not be run in TSO batch mode. The user must view many screens of output, since there currently is no option to suppress the messages.

4.2.2 Unload Software/Database Tape to Development Account

Using a tape made in accordance with Section 3.1 (for IBM/MVS/TSO) or Section 3.2 (for non-IBM/non-TSO), RCRIS software can first be installed from tape on a State development account. The State user must modify this development version of RCRIS to accommodate the State's specific system interface needs, as the version will become the State production version of RCRIS.

The procedures to unload the tape depend on the type of tape (IBM or other) which was created. If the tape was created for an IBM system which supports the PDS format, then a job stream will be sent to the other system (via U-Mail or routed to the other system's remote printer). This file contains a generic version of the JCL which can be submitted to perform the tape unload. The file contains directions for customizing the accounting parameters which include inserting--

- o User ID
- o Account
- o Box number
- o Tape volume serial number
- o Tape expiration date
- o Tape file prefix



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- o Account to copy tape files to
- o disposition of the copied datasets (NEW or OLD)

These changes can be done using any line or full-screen editor and performing the substitutions in the order which is documented in the file. After all parameters have been entered, the JCL may be submitted. (Check with system programmers if other parameters are required by the installation for tape jobs.)

If the job completes successfully, the RCRIS system datasets will be in the selected system directory. It will be necessary to modify the accounts used in the CLISTs, Skeletons, FOCEXECs, and PANELS to match the system assigned account. Finally, the FOCEXEC MODIFYs must be compiled before the system is ready to be tested.

The procedure for unloading a tape on a non-IBM system differs for each system; therefore, no specific instructions can be given. However, the following general instructions may be useful.

The user will need to run a utility on the system to unload each file on the tape to a directory on disk, performing EBCDIC to ASCII conversion if necessary. This utility will probably require the volume serial number of the tape and the tape expiration date. The first file on the tape contains a list of all files for all the tapes and is named 'iiiiiaaa.RCRIS.FULL.TAPE.LIST' for the full RCRIS tape and 'iiiiiaaa.RCRIS.UPDATE.TAPE.LIST' for the update RCRIS tape. The file is fixed-block, 80 characters, and is blocked at 23440 characters. Replace "iiiiiaaa" with the ID and account of the user who created the tape on the NCC mainframe.

Given the number of files to unload (over 2,500), it would probably be useful to dump the file list and use this as a basis for creating a batch program to unload the tape(s). Since the PDS structure is not available, each file will be unloaded separately to the directory. Sequential files are stored to tape using the full IBM system name. For PDS files, each member is written to a separate file which consists of the PDS name with the member name appended to the end as the last level.

Note: The same member name can exist in more than one PDS, so a convention will need to be established to make these names unique when they are unloaded. One possibility is to assign unique extensions for each PDS type.

4.3 Modify Software Making Translator-Specific Changes

After the datasets have been unloaded, all CLISTs and IBM JCL skeletons must be converted to interactive and batch command files appropriate for the system. This may not be as hard as it appears, since most non-IBM systems do not require explicit allocation of every file and database. The FOCEXECs (and PANELS files, if used) will need to be changed to reference the proper accounts. Finally, the FOCEXEC files will require compiling before the system can be tested.

If the local computer has a non-MVS/non-TSO environment, the State user will need to make modifications to the CLISTs (FOCEXEC and batch job control changes will be discussed later) before RCRIS will operate properly with the local computer's operating system. Before making modifications, the user must be familiar with the major system commands required to invoke the RCRIS system under FOCUS. (See Section 2.) Most of the required modifications to RCRIS will involve changing the account tests and logic and changing the system functions described in Section 2 and Appendix A to match those of the target system.

If the State is implementing RCRIS on another TSO system, the supplied CLISTs can be modified; otherwise, the command files necessary to set up the databases and programs will need to be written using the supplied CLISTs as a guide.

If the State is a TSO user, much of the customization can be accomplished by looking for the global variables listed below with a utility which can search multiple files or members for a specific string.

```
/* --- SET UP DEFAULT VALUES FOR ALL GLOBAL COMMAND SUBSTITUTION PARMS.
```

```
SET &TDSHECK = &STR(DSCHECK)
SET &TPRINTOF = &STR(PRINTOFF)
SET &TCLEAR = &STR(CLR3270)
SET &TPMDISK = &STR(DISK)
SET &TWKDISK = &STR(DISK)
SET &TFOCACNT = &STR(SYS2)
SET &TFDSN = &STR(FDSN)
SET &TACTRANG = &STR(4:7)
SET &TSPCMGMT = &STR($SM)
SET &TFLDEARC = &STR(HRECALL)
```

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Of the variables listed above, **&TPRINTOF**, **&TCLEAR**, and **&TFOCACNT** **MUST HAVE** equivalents on the new system for RCRIS to function properly. **&TPMDISK**, **&TWKDISK**, **&TACTRANG** should only be included if the accounting on the new system requires them. **&TFDSN** would only be of use in an IBM TSO environment. **&TSPCMGMT** is only useful if partitioned datasets are used. **&TFLDEARC** is only needed if the system archives datasets to tape after a set period of inactivity.

- o **&TPRINTOF.** TSO command to send files to printer. This is necessary for RCRIS to function properly.
- o **&TCLEAR.** Command to clear CRT screen. This is necessary for RCRIS to function properly.
- o **&TFOCACNT.** This variable holds the **PREFIX** for the account which contains the **FOCUS** system datasets, both the libraries and the load modules. Since this varies from system to system, this variable was provided to simplify installation. This is necessary for RCRIS to function properly.
- o **&TPMDISK.** Device name (Unit) for permanent files. Can be the same as **&TWKDISK**.
- o **&TWKDISK.** Device name (Unit) for work files. Can be the same as **&TPMDISK**.
- o **&TFDSN.** Name of function to return datasets allocated to a **DDNAME** (set to **&STR(/*)** if not used). This is an EPA-created function and is only useful in an IBM/TSO environment.
- o **&TACTRANG.** This variable is used on the EPA mainframe to select the portion of the system **PREFIX** (CLIST pre-defined variable **&SYSPREF**) to extract. On the EPA mainframe, the **PREFIX** consists of either a four-character group account or of a three-character ID followed by a four-character group account. To obtain the account from the user ID, characters 4 through 7 need to be extracted. This is accomplished by setting **&TACTRANG** to 4:7, where 4 is the first position to extract and 7 is the last position to extract. If the group is not contained within the account, set this to 1:L, where 'L' is the length of the **&SYSPREF** value.
- o **&TDSCHECK.** Used for the **DSCHECK** function. **LISTDSI** is equivalent except for the return codes. The return codes must be changed to match those returned by the function.

- o **&TSPCMGMT.** Name of utility to compress partitioned datasets--may not be applicable (set to &STR(/*) if not used). This utility is only useful if PDSs are used.
- o **&TFLDEARC.** Name of utility to recover files automatically moved off-line to tape due to inactivity--may not be applicable (set to &STR(/*) if not used). This utility is only used if the system archives datasets to tape after a set period of inactivity.

These variables should be set to the commands used by the local system to accomplish their stated functions in the following RCRIS CLISTs: INSTALL, RCRIS, and MERGPRO. These three are included in Appendix G. Setting the variables will ensure that the proper command is executed when the function is needed. However, since different systems require different parameters to be passed to each function, it will probably be necessary to perform a global search as stated above and manually change the values on each line where the function is invoked. This will cover a large number of the required changes. For TSO users, most of the additional changes will involve changing the way account PREFIX information is used to access datasets.

The first part of the RCRIS CLIST contains keyword parameters, as follows:

```
aaaa.RCRIS.CLIST(RCRIS)
```

```
PROC 0      CALLED() MODE() FOCVER(.) LIST(NOLIST)
```

The RCRIS CLIST can be executed standalone or can be called from the CLIST MERGPRO (aaaa.RCRIS.CLIST(MERGPRO)).

The CALLED parameter indicates whether the CLIST was called by MERGPRO and is passed to RCRIS by MERGPRO.

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The FOCVER parameter can be used to test the RCRIS software under a new FOCUS version different from the current production FOCUS version. The following command is an example of how to use this feature: (This is only useful if the system name for the FOCUS load library follows this convention for new test releases of FOCUS.)

```
'aaaa.RCRIS.CLIST(RCRIS)' 'FOCVER(V6R5M5)'
```

Where	V6	=	FOCUS Version 6
	R5	=	Release 5
	M5	=	Maintenance Release 5

The appropriate parameters should be obtained from the DBA, who assures that RCRIS has been recompiled under the specified FOCUS version.

If the user passes the FOCVER parameter, the RCRIS Mode Selection Screen will display the FOCUS version number.

The LIST parameter provides a list function for debugging purposes. To use this function, type the following command:

```
'aaaa.RCRIS.CLIST(RCRIS)' 'LIST(LIST)'
```

Each of the relevant parameters above is passed to lower level CLIST modules. This avoids having to manually change the above values for each called CLIST submodule.

```
-----  
ALLOC DD(RCRVERDT) DS('&PROG..RCRIS.VERSION.RELDATE') SHR REUSE  
OPENFILE RCRVERDT INPUT  
GETFILE RCRVERDT  
SET &VERDATE = &STR(&RCRVERDT)  
GETFILE RCRVERDT  
SET &NVERSION = &STR(&RCRVERDT)  
CLOSEFILE RCRVERDT  
IF &STR(&NVERSION) NE &STR(NONE) THEN +  
    SET &XVER = &STR(V)+  
        &SUBSTR(1:1,&NVERSION)+  
        &SUBSTR(3:3,&NVERSION)+  
        &SUBSTR(5:5,&NVERSION)  
ELSE +  
    SET &XVER = &STR(XXXX)
```

The dataset named 'aaaa.RCRIS.VERSION.RELDATE' contains two lines which maintain information on the current and next release versions. The first line of this dataset contains the current release version number followed by the release date. The second line contains the number of the next release version or NONE if there is no next release. The release date in this file is created when the Install program is run.

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4.4 Perform Initial Tests and Modifications on Development System

After all of the changes above have been made, the following process should be used to test the system.

1. Test the INSTALL CLIST first, because it compiles the FOCUS programs and sets up the 'Turbo' FOCUS source and compiled libraries. When 'turboized,' the FOCEXECs are placed into their associated PDSs with the most frequently used FOCEXECs positioned at the top of the PDS stack for faster retrieval. See Appendix C, PROGCOMP and PROGCOPY for a list of Turbo PDS libraries.
2. Next, the RCRIS CLIST should be tested.
3. When these are functioning properly, the batch control job streams (skeletons) should be converted to the current accounting system.
4. All functions connected with the MERGPRO CLIST should be tested.

Note: The RCRIS FOCUS Master file descriptions should not require any modification for any system. The FOCUS Window files can be used without modification on any IBM system with TSO.

As discussed in Section 2 and Appendix A, parts of the RCRIS system use the IBM product ISPF. This utility is used mainly to display full screen panels for menu choices and data entry outside of the FOCUS environment. This allows the user to enter data which will be needed in certain cases before FOCUS can be started. ISPF is also used inside of FOCUS to perform utility functions which would otherwise be difficult to access. These functions can be located by searching all CLISTs for the strings 'ISPSTART' and 'ISPEXEC'. The accompanying screens can be found in the PANELS files and the error message text is stored in the MSGS file.

4.5 Modify System for Non-TSO Environment if Necessary

If the State is NOT running under MVS/TSO, the following is a description of what needs to be accomplished to make RCRIS operate. First, since partitioned datasets (PDSs) are not supported, the data will be sent in individual files. The files will, in general, be named identically to those on the EPA IBM mainframe. PDS files will be converted to sequential files, one for each member. They will have the same name as the EPA IBM counterpart with the member name appended to the end. It is the State DBA's or system operator's responsibility to retrieve and name these files to the standard FOCUS naming convention on the local system.

After the DBA or system operator has retrieved and renamed the above files, he or she should study the CLIST files and note the changes which were detailed in Section 4.3. The CLISTs must be modified, FOCUS must be invoked, and the RCRIS programs must be compiled before system testing can begin.

These CLISTs will need to be converted to interactive command files on the local system. The important point to remember is that all FOCUS databases, master file descriptions, window files, and work files must be properly assigned before FOCUS is called. This should not be a major problem on these systems, since most of them handle the file allocations automatically if the files are named in a standard way (that is, are assigned a default extension). Many systems provide a PATH statement which can be used to access programs when they are in a different directory. It is important to compile the RCRIS programs before testing the system. The CLIST PROGCOMP will show which files are needed to invoke FOCUS before RCRIS can be compiled and the CLIST COPYCOMP will show the list of files which are the compiled modules.

In CLIST conversions, it may not be possible to convert every command that is used. In most cases this will not matter, since some of the functions are mainly relevant to an IBM TSO environment. However, be sure that the functions of variables which are listed as important in Section 4.3 are provided or system performance will be unsatisfactory.

Another area which will require attention is the batch job control files (any dataset which ends with or contains the word '.SKEL'). These files are processed by ISPF 'file tailoring' utility which generates a job stream which can be submitted for batch processing. This service is invoked from a CLIST as follows:

```
ISPEXEC FTOPEN [TEMP]
          ISPEXEC FTINCL skeleton membername
ISPEXEC FTCLOSE
```

The output JCL data is written to the dataset name allocated to the DDNAME 'ISPFIL' unless the 'TEMP' option is used; in this case the data is written to a temporary file. The temporary file name can be retrieved through the ISPF system variable '&ZTEMPF'.

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The member to be processed is contained in a PDS which is allocated using the DDNAME 'ISPSLIB'.

The ISPF processor performs the following conversions:

1. Replaces all '&xxx' symbolic parameters with their actual text values. These parms have been previously set to a value in the CLIST which invokes the ISPF service. A dot ('.') can be suffixed to the variable name if it is necessary to append text after the variable. The dot is not printed. If it is necessary to print the dot, then two dots must be appended to the variable.
2. Writes the resulting records to an output dataset. The processor scans for lines which begin with ')SEL'. When such a line is found, the condition following it is evaluated (for example, &MODE = P) and if the condition is true, then all records following this line are written to the output file up to the corresponding line which contains the command ')ENDSEL' in column 1. If the condition is false, then these lines are skipped over.

At the completion of the 'file tailoring', the output file contains Job Control Language (JCL) which is ready to submit to the batch system input queue. This is the method which is used to submit the RCRIS batch reports and updates. For a non-IBM system, it will be necessary to convert this JCL to the batch command language used by the translator's system. It is important to realize that IBM JCL has a completely different syntax than TSO commands or CLISTs. A brief overview of how to do this is presented below:

IBM batch job files bear no resemblance to the interactive command language. An IBM batch job starts with a job card which may include more than one line. The rest of the job is divided into 'steps'; each step begins with //name EXEC xxxx, where 'name' is a one to eight character assigned name for the step, EXEC is a required keyword, and xxxx is either a one to eight character procedure name or is PGM=xxxx, where 'xxxx' is the name of the program or utility to run. See Appendix A for a list of some of the common programs and utilities used in the RCRIS system.

After the job step are allocations for all the files that the program will be using in the form

```
//ddname DD [many parameters]
```

'ddname' is the handle through which the program gains access to the attached file or device,

'DD' is a required keyword; this is followed by keywords which are used to describe the file or device needed to the operating system. This allows the device or file name to be changed without having to change (and possibly recompile and link) the program.

If a permanent disk file is being read or written, then the keyword 'DSNAME=' will be present, followed by the name of the file.

The keyword 'SYSOUT=' indicates that the data is being sent to the print queue.

The other keywords describe special properties of these files or devices and will generally not be required when the job stream is converted.

One thing to notice when converting the RCRIS batch jobs is a special dataset construction called a Generation Dataset Group (GDG). These can be identified in IBM utilities by the following form: xxxx.xxxx.xxxx(+1). 'xxxx' is the dataset name and can have any number of levels (the characters which appear between the dots). The '(+1)' indicates a GDG. Generation datasets can be considered a sequenced set of backups for a given file. If the dataset is backed up regularly, then the user can restore the dataset to a given state simply by restoring the proper GDG backup. The number of backups which are kept for a dataset is specified when the GDG structure is defined. The number of generations for RCRIS datasets on the EPA system is preset to 20 for extract and update jobs are preset to 1 for database rebuilds; this number can be increased or decreased. A GDG can be identified by a dataset with the suffix 'GxxxxVxx', where 'Gxxxx' is the generation (back-up sequence number--which starts at 1 and is incremented by one for each subsequent back-up) and 'Vxx' is the version number. The GDG format only exists on IBM systems, although other systems usually have similar mechanisms, such as a version number following the file extension.

The RCRIS compile procedure should be written and tested first. The next item should be to write an interactive command procedure to bring up the RCRIS system under FOCUS. Finally, the RCRIS Extract procedure, RCRIS utilities, and RCRIS batch programs should be modified or rewritten.

After the interactive and batch command files have been successfully converted, the RCRIS FOCEXEC programs will need to be changed. A special parameter file is created in the interactive RCRIS system command file and is used by the RCRIS FOCUS system to allocate work and report files. This file has six parameters:

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1. The group account that the user logged on as.
2. The production account prefix.
3. The development account prefix.
4. The test account prefix.
5. The database prefix (account.state ID) (for example, aaaa.SS0).
6. The selected MODE (D/T/P).

These items are all concatenated without any intervening spaces. The RCRIS PROFILE reads these items and equates them to global variables. It is important to check that the length assigned to each item read from this file matches that item's actual length.

Finally, all references where the 'TSO' prefix is used need to be converted within the RCRIS FOCEXECs. The TSO prefix is mainly used to allocate or to free report or work files dynamically and is used in several places to invoke the IBM ISPF system services. Since the TSO ALLOCATION should be easy to convert to the format required by the target system (conversion may not be required in some cases), this will be more tedious than difficult. For non-TSO systems, the &&SYSTEM will need to be redefined in PROFILSG and PROFILSU. Refer to Appendix D, Appendix M, and page 11. A complete listing of TSO calls from CLISTs is provided in Appendix D. For ISPF calls, refer to Appendix I.

4.6 Test Changes

After all modifications have been made to the CLISTs and the local system is ready for release to the production environment, the DBA or system operator will want to test all system functions to ensure that RCRIS is now operating properly under its new environment. A specific test plan should be written to ensure that all changes made to the system are fully tested and RCRIS is performing correctly. This testing process will differ according to specific installation requirements, but should generally follow the following pattern:

Compile the FOCEXECs. Before any actual testing can begin, the DBA or system operator will need to compile all of the FOCEXECs. (See section below on testing CLISTs.)

Access and Navigation. Once the FOCEXECs have been compiled, the DBA or system operator should invoke the RCRIS system and make sure that he or she has access to the Main Menu and can move to sub-menus properly.

Data Entry Capability. After ensuring that he or she can navigate from one menu to another, the DBA or system operator will want to make sure that he or she can perform data entry and edits on each of the following modules: HID, CM&E, PMT/CL/PC, CA, PM, and FMP.

Reports. Careful testing of the RCRIS reporting functions will include running both STARS and management reports to ensure that all of the appropriate data are included and are in the proper format.

DBA Functions. The DBA or system operator should test the database administration functions to insure proper operation and should test both Table Maintenance and the Merge Process.

MERGPRO Utility. Only GDG initialization is required for merge processing and should be tested first. All other utilities are desirable but are not essential.

TESTING PROCEDURES FOR CLISTS

The first step to bring up RCRIS on an IBM TSO system (after all of the datasets have been moved to proper directories and have been given the proper names) is to convert the CLISTs to operate with the functions and accounting structure of the new system. The next step is to test the CLISTs to ensure that they actually do work the way they were intended. This section describes methods which can be used to accomplish this. Appendix C contains description summaries of the RCRIS CLISTs.

The CLISTs can be grouped into three modules: (1) those used for compiling FOCEXEC programs, (2) those used to invoke the RCRIS system, and (3) supporting utility CLISTs. CLISTs should be tested in the same order as listed above. The RCRIS system cannot be tested until all of the FOCEXEC modules have been compiled, and some of the utilities cannot be used until data has been entered into the RCRIS databases.

Four CLISTs comprise the compile module:

1. INSTALL, which is the main program
2. PROGCOPY, which sets up the dataset libraries for the turbo FOCEXECs (called from INSTALL)

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3. **PROGCOMP**, which allocates the datasets and databases necessary to compile the FOCEXECs (called from **INSTALL**)
4. **COPYCOMP**, which allocates and copies the compiled programs into the turbo FOCCOMP libraries (called from **INSTALL**)

These can all be tested by invoking the member **INSTALL**. If **INSTALL** functions properly, messages will be displayed indicating the FOCEXECs which are being copied, **FOCUS** will be invoked to compile the FOCEXECs (several screens of **FOCUS** compile messages are generated), and finally a status screen will display the results of copying the compiled FOCEXECs. Possible problems might include wrong parameters being passed to the sub-programs or wrong **PREFIX**s being assigned to datasets. Although tedious, corrections to these problems are relatively easy to make.

The next item to test is the **CLIST** which invokes **RCRIS**.

This **CLIST** has logic which is only applicable to the EPA IBM system at NCC and which will need to be bypassed. Change the variables to the proper values for the local system and uncomment them if necessary. Also change the definitions for the **CLIST** global variables which are just above this area. Do not make any other changes to the **CLIST** at this point.

Appendix M contains the programs needed to provide multiuser capability for datasets in **RCRIS**.

At this point, type **EX 'aaa.RCRIS.CLIST(RCRIS)'**. When the DBA or system operator sees the **RCRIS** main menu, the **CLIST** can be considered to be functional, although further testing of the **RCRIS** options in **FOCUS** can still reveal that certain files are not allocated properly.

If the main menu does not appear, first ensure that the initialization of global variables and the other variables which are in the marked area immediately below this are all set properly. If this does not solve the problem and a trace is necessary, perform the following steps:

1. Invoke the **RCRIS CLIST** with the trace mode enabled as follows: **EX 'aaaa.RCRIS.CLIST(RCRIS)' 'LIST(LIST)'**
2. Re-run the **CLIST** and note the logic and error messages, especially at the point of termination.

3. Correct all errors having to do with datasets not found for ALLOC (allocation; the dataset associated with the DDNAME) UCALC is an exception to this. (See Appendix A, p.A-2).
4. Ignore all error messages relating to DDNAMEs which are not ALLOCated (when a FREE command is encountered) and datasets which cannot be found for deletion.
5. Watch for other errors, such as differences in the system functions. In most cases these can be corrected by changing the corresponding global variable (these are listed in another section), although it may still be necessary to change the parameters which are associated with these variables wherever they are referenced.
6. After changes are made, run the CLIST again with a trace on and note any further errors.
7. Continue to correct and re-run the CLIST until all errors have been corrected and the RCRIS main menu is displayed. At this point, the CLIST is mostly debugged and the "List" parameter is no longer required.

Finally, test the utility CLIST. The main module is MERGPRO; this CLIST calls other CLISTs depending on which menu choice is selected. To test this CLIST, select all choices on all menus and try all of the options. Since some of these CLISTs submit batch jobs, it is important to correct the syntax of the JOB card for each member in 'aaaa.RCRIS.SKELS', where 'aaaa' is the account which contains this dataset. This will also require that the edit logic be changed in certain CLISTs. If a CLIST option terminates abnormally, it will be necessary to trace where the error occurred. This can be done as follows:

1. Turn on the trace in MERGPRO by entering EX 'aaaa.RCRIS.CLIST(MERGPRO)' 'LIST(LIST)'
2. If the menu in MERGPRO was not displayed, re-run MERGPRO and debug; otherwise note the menu item which was selected.
3. Look for a series of 'SELECT' statements which check for the selected choice (they may not all be in one place) until the one that has the choice the user selected is found.

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4. Note which CLIST this calls, then edit that CLIST.
5. If the error occurred after a choice was selected from a sub-menu, repeat steps 3 and 4 again.
6. Go back and re-enter the same values as before, noting any errors having to do with file ALLOCations or system functions; make any necessary corrections. Again, errors involving FREE statements not finding the DDNAME ALLOCated and deletes which do not find any dataset to delete can be ignored.
7. Repeat all of the above steps until no more errors are found, then remember to turn off the trace statement wherever it has been enabled. Proceed to the next menu or sub-menu option to test. If any errors are encountered, start over from step 1. Continue in this manner until all the sub-CLISTs have been tested and debugged. Note that this will require a large amount of time, because of the number of CLIST members which are called from MERGPRO.

At this point, all CLIST testing is complete; proceed to testing the FOCEXECs and FOCCOMPs which are described above.

4.7 Move Software to Test Account for Certification Testing

After RCRIS software has passed installation testing as outlined above, move the system to the testing account for certification testing. After certification testing, RCRIS will be ready for release to production.

4.8 Install Next Release

The Install utility performs several functions, depending on the initiating account. If the account matches the production account, it allows the next version of the software to be compiled and production software to be recompiled, or Install can move the next version software into production, compile it, and update the version number file. If the account matches the development or test accounts, then the user can compile development or test RCRIS software, or can perform database maintenance on development or test databases. Optionally, an override version number can be written to a development/test MOU table to test future software enhancements before they are moved into production. All other users are restricted to performing database maintenance only, although menus are displayed for merge and regional DBAs to allow them to perform the install on one or more databases without having to rerun the Install routine for each one.

No security is provided in these programs. The RCRIS administrator must use the security package provided with the operating system to restrict access of each database to authorized users. RACF is the security package provided on the EPA computer system. See Section 2.7 in this guide for a brief discussion of the RACF utility. A more detailed discussion of the RCRIS Installation utility follows:

If the user logged on under the production account, the first screen displayed is the Version Override Menu. This allows the version number for the next RCRIS system release to be set. It will be written to the dataset 'xxxx.RCRIS.VERSION.RELDATE' in the Production Software account, will be displayed at the top of most RCRIS system menus, and will be compared to the current value in the user's MOU table at logon to determine if their databases have been upgraded.

Note that it will be necessary to set up two production accounts to properly implement the development-test-production cycle. The RCRIS production account contains the system actually run by the users; the Regional Test Account allows the Regions and States to test next release of the RCRIS software under actual operating conditions before it is released to the RCRIS production account.

The Regional Test Account will be initialized with the programs and tables currently in RCRIS production account; then the upgraded programs and tables are copied in from the Test account. To have the CLISTs in the Regional Test Account function properly, it will be necessary to change the global variables &PROG and &TABLES in the members INSTALL, MERGPRO, and RCRIS to reference the new account. These variables will need to be changed again when the system is moved from the Regional Test Account to the RCRIS Production Account.

After these accounts have been established, the user can test his/her databases under the new release by executing the RCRIS CLIST in the Regional Test Account.

The Version Override Screen has the format shown below:

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```
*****
*                               *
*           R C R I S           *
*   ENVIRONMENTAL PROTECTION AGENCY   DATE: yy/mm/dd *
*                               *   TIME: hh:mm *
*****

MODIFY RELEASED VERSION AND DATE
FOR DEVELOPMENT AND TESTING

CURRENT VERSION  #.#.#  >> #.#.#
CURRENT DATE     mm/dd/yy >> mm/dd/yy

USE NEW VALUES (Y/N)  >>
```

Where '#.#.#' represents the new version number, 'mm/dd/yy' is the new release date, and 'yy/mm/dd' and 'hh:mm' are the current system time and date.

After the new version number and date have been entered, the screen shown below is displayed. It provides three choices:

Option 1 updates the system version number, generates source Turbo libraries, compiles the source FOCEXECs into FOCCOMPs, generates FOCCOMP Turbo libraries, and performs required maintenance on the RCRIS system shared tables and lookup files. (Turbo libraries are generated by dividing the RCRIS FOCEXEC and FOCCOMP programs into smaller groups, placing these program groups into separate partitioned dataset (PDS) libraries, and then concatenating (stacking) these libraries using a DDNAME so that the programs executed most frequently are in the topmost datasets in the stack.)

Option 2 is used for maintenance; it recompiles the FOCEXEC programs into FOCCOMPs and generates Turbo libraries for both, but does not update the version number/release date or perform any table maintenance.

Option 3 exits the install process without performing any update. A sample screen is shown below:

```
*****
*                               *
*           R C R I S           *
*   ENVIRONMENTAL PROTECTION AGENCY   DATE: mm/dd/yy *
*   VERSION #.#.# mm/dd/yy           TIME: hh:mm:ss *
*                               *
*****
PRODUCTION pppp SOFTWARE
INSTALLATION MAIN MENU

1. INSTALL PRODUCTION SOFTWARE AND COMPILE
2. COMPILE pppp SOFTWARE
3. EXIT INSTALLATION MAIN MENU

ENTER SELECTION >>
```

On this screen, '#.#.#' is the system version number, 'mm/dd/yy' is the release date, 'mm/dd/yy' 'hh:mm:ss' is the system time and date, and 'pppp' is replaced with the production system account. If the version and release date were modified above, then the new values will be displayed on the banner line.

If the user logged on under the Development or Test account, the first screen displayed is the Version Override Menu. This allows the version/release date to be temporarily changed to new values to allow testing of newly developed software under real system conditions. It has the format shown below:

```
*****
*                               *
*           R C R I S           *
*   ENVIRONMENTAL PROTECTION AGENCY   DATE: yy/mm/dd *
*                               TIME: hh:mm           *
*                               *
*****
MODIFY RELEASED VERSION AND DATE
FOR DEVELOPMENT AND TESTING

CURRENT VERSION #.#.# >> #.#.#
CURRENT DATE    mm/dd/yy >> mm/dd/yy

USE NEW VALUES (Y/N) >> _
```

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Where '#.#.#' represents the new version number, 'mm/dd/yy' is the new release date, and 'yy/mm/dd' and 'hh:mm' are the current system time and date.

After the new version number and date have been entered, the screen shown below is displayed. It provides three choices:

Option 1 compiles the programs in the Development or Test FOCEXEC dataset into the FOCCOMP dataset. No Turbo libraries are built since response time is not important and this would increase the time for the install process. The values previously entered on the Version Override Menu are ignored when this option is selected.

Option 2 tests newly developed database maintenance programs in the Development or Test accounts. The values of the version override menu are used to fool the software so that the new database and dataset upgrade programs can be tested before the production version number is changed. (RCRIS compares the version number stored in the logon MOU table against the system version number; if the MOU table version is equal or greater than the system version, then the upgrades are not run. This prevents problems associated with running an upgrade twice on the same set of databases.)

Option 3 exits the install process without executing any compiles or upgrades. A sample of this menu appears below:

```
*****
*                               *
*               R C R I S       *
*   ENVIRONMENTAL PROTECTION AGENCY   DATE: mm/dd/yy *
*   VERSION #.#.# mm/dd/yy           TIME: hh:mm:ss *
*                               *
*****

DEVELOPMENT dddd AND TEST tttt
INSTALLATION MAIN MENU

1. COMPILE aaaa SOFTWARE
2. RUN DATABASE INSTALLATION PROGRAMS
3. EXIT INSTALLATION MAIN MENU

ENTER SELECTION >>
```

Where '#.#.#' represents the new version number, 'mm/dd/yy' is the new release date, 'yy/mm/dd' and 'hh:mm' are the current system time and date, and 'aaaa' is the production account prefix.

If Option 2 was selected from the above menu, then the screen below is displayed. It allows complete specification of the databases to be used for testing.

The database account specifies the first level (account prefix) of the databases. It can be any valid group account on the EPA system.

The Origin is one of the items which makes up the second level of the database name. Valid choices are 'S' (State), 'R' (Region), and 'M' (Merge). The value entered here determines what additional information is required below and which additional menus, if any, will be presented.

The CONTINUE prompt allows the install to be terminated. After each upgrade has fully completed, the database selection menu is presented to allow selection of another state, region, or merged database. Enter 'N' for CONTINUE to leave this menu and quit install. See sample screen below:

```
*****
*                               R C R I S                               *
*   ENVIRONMENTAL PROTECTION AGENCY   DATE: yy/mm/dd *
*   VERSION  #.#.# mm/dd/yy          TIME: hh:mm   *
*****

INSTALL STATE, REGION, OR MERGED DATABASE

DATABASE ACCOUNT >> aaaa
ORIGIN (S/R/M)   >> _

STATE           >> ss   (STATE)
REGION (1-10,H) >> #    (REGION)

CONTINUE (Y/N)  >> _
```

Where '#.#.#' represents the new version number, 'mm/dd/yy' is the new release date, 'yy/mm/dd' and 'hh:mm' are the current system time and date, 'aaaa' is the database account prefix, 'ss' is a two letter state code, and '##' is a one or two digit region number.

If 'S' is entered for Origin, then only the STATE field is required. The upgrade is only performed for the specified state and no further menus are required.

If 'R' is entered for Origin, then the REGION field is required. At this point a menu similar to the one below is displayed for the selected region.

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```
*****
*                               *
*   RCRIS INSTALL MENU FOR REGION 4   *
*   ENVIRONMENTAL PROTECTION AGENCY   *
*                               *
*   DATE: yy/mm/dd *
*   TIME: hh:mm   *
*                               *
*****
```

ENTER IN DATABASE ACCOUNT AND MARK EACH STATE
FOR WHICH THE INSTALL IS TO BE RUN

STATE NAME	DB ACCOUNT	REGION
ALABAMA	_____	_____
FLORIDA	_____	_____
GEORGIA	_____	_____
KENTUCKY	_____	_____
MISSISSIPPI	_____	_____
NORTH CAROLINA	_____	_____
SOUTH CAROLINA	_____	_____
TENNESSEE	_____	_____

Notice that all states are displayed for the previously selected region. Enter the group ID (account prefix) for each state to be tested in the DB ACCOUNT column and place an 'X' on the corresponding row of the REGION column. The upgrades will be performed once for each set of databases selected and control will then return to the first Database Selection Menu above.

If 'M' is entered on the first Database Selection Menu, then the REGION field is required. After it has been entered, a menu similar to the one below is displayed for the selected region:

```
*****
*                               *
*   RCRIS INSTALL MENU FOR REGION 4   *
*   ENVIRONMENTAL PROTECTION AGENCY   *
*                               *
*   DATE: yy/mm/dd *
*   TIME: hh:mm   *
*                               *
*****
```

ENTER IN DATABASE ACCOUNT AND MARK MERGE/REGION/STATE
FOR WHICH THE INSTALL IS TO BE RUN

MERGED DATABASE ACCOUNT: RCRD MERGE: _

STATE NAME	DB ACCOUNT	REGION	DB ACCOUNT	STATE
ALABAMA	_____	_____	_____	_____
FLORIDA	_____	_____	_____	_____
GEORGIA	_____	_____	_____	_____
KENTUCKY	_____	_____	_____	_____
MISSISSIPPI	_____	_____	_____	_____
NORTH CAROLINA	_____	_____	_____	_____
SOUTH CAROLINA	_____	_____	_____	_____
TENNESSEE	_____	_____	_____	_____

This menu is similar to the Region Selection menu above except that it also provides fields to select the state and/or merged databases as well. Note that the merged database account is the same as the DATABASE ACCOUNT entry which was entered on the first selection screen. To upgrade the merged database, place an 'X' next to the MERGE field. All other databases are selected by entering the account on the row which contains the desired state to the left of the STATE or REGION column and placing an 'X' in the corresponding REGION or STATE column. The upgrades will be performed once for each selected state, region, and/or merged database. When all processing has completed, the first Database Selection Menu will be displayed.

If the Install is run from an account which is not the Production, Development, or Test account, then the only option available is to perform the database upgrade. Since there are no other options, the front selection menu is unnecessary. Also, the Version Override Menu is not displayed.

Instead, the Install jumps directly to the database upgrade routine and the screen below is displayed. It allows complete specification of the databases to be converted.

The database account specifies the first level (account prefix) of the databases. It can be any valid group account on the EPA system.

The Origin is one of the items which makes up the second level of the database name. Valid choices are 'S' (State), 'R' (Region), and 'M' (Merge). The value entered here determines what additional information is required below and which additional menus, if any, will be presented.

The CONTINUE prompt allows the install to be terminated. After each upgrade has fully completed, the database selection menu is presented to allow selection of another state, region, or merged database. Enter 'N' for CONTINUE to leave this menu and quit install. See the sample screen below:

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```
*****
*                               R C R I S                               *
* ENVIRONMENTAL PROTECTION AGENCY   DATE: yy/mm/dd *
* VERSION .#.#.# mm/dd/yy          TIME: hh:mm    *
*****
```

INSTALL STATE, REGION, OR MERGED DATABASE

```
DATABASE ACCOUNT >> aaaa
ORIGIN (S/R/M)   >> _

STATE           >> ss   (STATE)
REGION (1-10,H) >> #    (REGION)

CONTINUE (Y/N)  >> _
```

Where '#.#.#' represents the new version number, 'mm/dd/yy' is the new release date, 'yy/mm/dd' and 'hh:mm' are the current system time and date, and 'aaaa' is the production account prefix.

If 'S' is entered for Origin, then only the STATE field is required. The upgrade is only performed for the specified state and no further menus are required.

If 'R' is entered for Origin, then the REGION field is required. At this point a menu similar to the one below is displayed for the selected region.

```
*****
*                               RCRIS INSTALL MENU FOR REGION 4          *
* ENVIRONMENTAL PROTECTION AGENCY   DATE: yy/mm/dd *
*                               TIME: hh:mm    *
*****
```

ENTER IN DATABASE ACCOUNT AND MARK EACH STATE
FOR WHICH THE INSTALL IS TO BE RUN

STATE NAME	DB ACCOUNT	REGION
-----	-----	-----
ALABAMA	_____	_____
FLORIDA	_____	_____
GEORGIA	_____	_____
KENTUCKY	_____	_____
MISSISSIPPI	_____	_____
NORTH CAROLINA	_____	_____
SOUTH CAROLINA	_____	_____
TENNESSEE	_____	_____

Notice that all states are displayed for the previously selected region. Enter the group ID (account prefix) for each state to be tested in the DB ACCOUNT column and place an 'X' on the corresponding row of the REGION column. The upgrades will be performed once for each set of databases selected and control will then return to the first Database Selection Menu above.

If 'M' is entered on the first Database Selection Menu, then the REGION field is required. After it has been entered, a menu similar to the one below is displayed for the selected region:

```
*****
*                RCRIS INSTALL MENU FOR REGION 4                *
*                ENVIRONMENTAL PROTECTION AGENCY                *
*                DATE: yy/mm/dd *                               *
*                TIME: hh:mm *                                   *
*****
```

ENTER IN DATABASE ACCOUNT AND MARK MERGE/REGION/STATE
FOR WHICH THE INSTALL IS TO BE RUN

```

MERGED DATABASE ACCOUNT: RCRD      MERGE: _

STATE NAME      DB ACCOUNT      REGION      DB ACCOUNT      STATE
-----
ALABAMA         _____      -          _____      -
FLORIDA         _____      -          _____      -
GEORGIA         _____      -          _____      -
KENTUCKY        _____      -          _____      -
MISSISSIPPI     _____      -          _____      -
NORTH CAROLINA  _____      -          _____      -
SOUTH CAROLINA  _____      -          _____      -
TENNESSEE       _____      -          _____      -

```

This menu is similar to the Region Selection menu above except that it also provides fields to select the state and/or merged databases as well. Note that the merged database account is the same as the DATABASE ACCOUNT entry which was entered on the first selection screen. To upgrade the merged database, place an 'X' next to the MERGE field. All other databases are selected by entering the account on the row which contains the desired state to the left of the STATE or REGION column and placing an 'X' in the corresponding REGION or STATE column. The upgrades will be performed once for each selected state, region, and/or merged database. When all processing has completed, the first Database Selection Menu will be displayed.

5 MAINTAINING INSTALLED SYSTEM

5.1 RCRIS Change/Problem Control and Librarian Tracking System

To manage version control, RCRIS software is divided into development, test, and production accounts. An automated software librarian is used to facilitate and track software check-in/out between the three accounts, and methodical procedures are in place to ensure software integrity and validity. The Librarian also generates a unique tracking number for each documented software problem and tracks it through to completion.

RCRIS User Support uses the Centralized Problem Management System (CPMS), an IBM product modified for NCC, to record and monitor user-reported problems. Essentially, CPMS is used to track two distinct, but interrelated, processes:

- o Problem resolution
- o Software change implementation

General information on the problem/change is entered into the system in order to create an audit trail to track these processes. Such information as the name and phone number of the person who found the problem or requested the change is entered along with a description of the problem/change.

Problems should be reported to RCRIS User Support so the staff may determine whether the problem is a general RCRIS bug or a translator-specific bug. Problem/change status is updated periodically (daily, weekly, or monthly--depending on the problem) and the user is kept informed of any changes in status.

5.2 Establish a Software Control System

The translator should implement version control procedures to control check-in and check-out of programs during the software adaptation phase, thus preventing two or more people from making different changes on the same program simultaneously. Such configuration management procedures should include the following steps:

1. Assign control number to problem/change.
2. Check out programs from production to development.

3. Modify development software where necessary.
4. Unit test changes.
5. Move development changes to test software.
6. Thoroughly verify/certify software.
7. Check in approved/tested changes to production.

Similar procedures should be created for translator specific problems. Procedures could include the following:

- o Duplicate reported problem in production.
- o If the problem is duplicated, check out from librarian to development.
- o Verify problem is translator specific and fix.
- o If RCRIS bug, report to RCRIS User Support.
- o Return fix to test account.
- o Certify problem resolved, update change/problem control status.
- o Check in program(s) to production.

5.3 Completing Translator Test Form

This section sets forth a method that could be adapted to meet the needs of translators.

1. A test form must be completed for each Change Control number.
2. Task Leader, Programmer, Librarian, and Tester must complete their appropriate sections.
3. Each section must be approved by the appropriate person before completion of the next section.

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4. Task Leader must approve Programmer section and submit test form to the Librarian. The Librarian must complete his/her section and return form to Task Leader. Task Leader must submit form to Tester. Tester must complete his/her section and return to Task Leader.
5. Final approval signature and date must be entered by Technical Manager.
6. Programmer instructions for completing the form:
 - o Include the Change Control number on all pages of the form; enter system, version, and date submitted
 - o Include Programmer's name and list all modified programs related to correcting problem
 - o Complete items 1-9, where applicable, under Programmer Checklist. Include all attachments identified in items 1-9
 - o Enter Problem Description on page 2
 - o Identify test method under Test Method #1. When more than one method is required, enter the second method under Test Method #2. (Example: Test Method #1 - Tested software changes under DBA module. Test Method #2 - Tested software changes under HID module)
 - o Complete the Programmer Deliverable Information section on page 3
 - o Submit form to Task Leader for approval
7. Librarian instructions for completing the form:
 - o Complete items 1-7, where applicable, under Librarian Checklist
 - o Include all attachments identified in items 1-7
 - o Enter signature and approval date
 - o Submit test form to Task Leader

8. Tester instructions for completing the form:
 - o Complete items 1-7, where applicable, under Tester Checklist
 - o Identify test results under Test #1 Results on page 2. If Test Method #2 is completed, also enter test results under Test #2 Results
 - o Complete the Tester Deliverable Information section on page 2
 - o Enter signature and approval date
 - o Submit test form to Task Leader
9. Task Leader instructions for completing the form:
 - o Inspect form for completion of all sections
 - o Enter signature and approval date
 - o Submit test form to Technical Manager
10. Technical Manager instructions for completing the form:
 - o Inspect form for completion of all sections, signatures, and approval dates
 - o Complete final approval signature and approval date on page 2
 - o Submit test form to Administrative Assistant
11. Administrative Assistant instructions for completing the form:
 - o Update documentation where applicable
 - o File test form

TRANSLATOR TEST FORM

Page 1

System:

Version:

Change Control #:

Date:

Programmer:

Programs:

Task Leader:

Approval Date:

PROGRAMMER CHECKLIST

- ☐ 1. Programs backed up prior to making software modifications.
- ☐ 2. Programs compiled and modified where necessary.
- ☐ 3. Comment section top of program has been changed to reflect date of change, programmer's initials, and short description of change with Change Control Number.
- ☐ 4. All debugging or development only defaults removed from coding.
- ☐ 5. Any ALLOC, COMBINE, and USE statements added to menu.
- ☐ 6. Code reviewed for technique.
- ☐ 7. Program specifications provided.
- ☐ 8. All unit test documentation attached.
- ☐ 9. Documentation requiring updates: _____

TRANSLATOR TEST FORM

Page 2

System:

Version:

Change Control #:

Date:

Programmer: Tester:

Problem Description:

PROGRAMMER SECTION

Test Method #1: _____

Additional Instructions: Y N

Test Method #2: _____

Additional Instructions: Y N

TESTER SECTION

Method #1 Results: _____

Additional Information: Y N

Method #2 Results: _____

Additional Information: Y N

TESTER DELIVERABLE INFORMATION

Rejected:	Accepted:	Date:	Initials:
Rejected:	Accepted:	Date:	Initials:
Rejected:	Accepted:	Date:	Initials:
Final Approval:		Date:	

TRANSLATOR TEST FORM

Page 3

System:

Version:

Change Control #:

Date:

Programmer Additional Instructions: _____

Tester Additional Information: _____

PROGRAMMER DELIVERABLE INFORMATION

CC#	Programmer	Tester	Program	Program ID	Document Type	Update

TRANSLATOR TEST FORM

Page 4

System:

Version:

Change Control #:

Date:

Librarian:

Approval Date:

LIBRARIAN CHECKLIST

- ___ 1. Software program(s) received from programmer.
- ___ 2. Reviewed software code for the following:
 - ___ o Comment section top of program has been changed to reflect date of change, programmers initials, and short description of change with Change Control Number.
 - ___ o All debugging or development only defaults removed from coding.
 - ___ o Any ALLOC, COMBINE, and USE statements added to menu.
- ___ 3. Successful compile of module which includes program(s) to be tested.
- ___ 4. All unit test documentation received from programmer.
- ___ 5. Print comparison of old program(s) to newly changed program(s) (if applicable) using mainframe Compare utility.
- ___ 6. Appropriate Librarian procedures followed.
- ___ 7. Load baseline test database into mainframe system.

TRANSLATOR TEST FORM

Page 5

System:

Version:

Change Control #:

Date:

Tester:

Approval Date:

TESTER CHECKLIST

- ☐ 1. Software passes review and approval from Task Leader.
- ☐ 2. Software passes review and approval from Librarian.
- ☐ 3. Program specifications provided.
- ☐ 4. Successful access of program through appropriate menu.
- ☐ 5. Software operates appropriately as stated in Change Control request.
- ☐ 6. Program returned to Librarian.
- ☐ 7. All test documentation to Librarian.

6 MVS CASE STUDY -- WASHINGTON STATE FALL 1990

RCRIS has been designed to operate on a wide range of platforms, from mainframe to desk top computers, in many different computing environments. The original mainframe version in the FOCUS language was installed on a IBM 3090 with TSO and other utilities available. When the software is migrated to other operating facilities where the complement of utilities varies, certain modifications to the code must be made to accommodate the difference in the environments.

The Washington State system is representative of the conversion that was required to get an earlier version of RCRIS running on another IBM TSO system. The Washington State system supports the PDS structure, so it was not necessary to break out the FOCEXEC, FOCMASTER, CLIST, window, and panel members into separate flat files. The required conversion centered around two areas: changing accounting parameters to the conventions used on the system, and finding equivalent functions or work-arounds for special commands used in EPA's version of the RCRIS CLISTS. These changes are detailed below.

The ACF2 accounting format used on the Washington State system is much different from that used by the EPA's NCC. This program provides dataset protection which is usually based on the first two levels of the dataset name and authorization must be coded to a special file for each account to allow a user access to datasets in another user account. There is no direct relationship between the user ID and the user account to which it belongs, at least at the interactive logon level (the system transparently hard codes the account for users who only are under one billing code). User IDs are seven characters long and the concept of a "group" account is not implemented.

<u>VARIABLE</u>	<u>EPA VALUE</u>	<u>WA VALUE</u>	<u>DESCRIPTION</u>
&TPRINTOF	PRINTOFF	DSPRINT	List dataset to printer
&TCLEAR	CLR3270	'KOMM RESET CLEAR'	Clear the screen
&TPMDISK	DISK	PRIM	UNIT for permanent datasets
&TWKDISK	DISK	SYSDA	UNIT for temporary datasets
&TFOCACNT	SYS2	WDPSC	Account containing FOCUS system
&TFDSN	FDSN	none	Concatenate DSNs to DDNAME
&TACTRANG	4:7	1:7	Portion of ID to use for account
&TSPCMGMT	\$SM	PDS	Utility to compress PDS
&TFLDEARCH	RECALL	none	Utility to recover archived datasets
&TLINEDIT	E	EDIT	Name of system line editor

Batch job accounting parameters bear no direct relationship to those used to log on interactively. A CLIST function (GETMY) can be called to obtain the necessary values; however, some substring manipulation is required to get these in the correct form. It then requires more work to figure out where each value fits on the job card.

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Datasets, by default, are created on temporary storage packs and are deleted after three days of non-use. To retain datasets for a longer period of time, the user needs to specify 'UNIT(PRIM)' when the dataset is created. This allocates space on a disk for long term datasets. If a dataset on a long term pack is not referenced for nine months, it is archived to tape and the dataset name is removed from the catalog. A utility (RESTNVSM) is provided which runs under ISPF to allow the user to request restoring an archived file from tape. However, since the system no longer has any entry for the archived dataset, it is possible to create a new dataset on disk with the same name and never know that there is an archived dataset using the same name.

To cope with these differences in accounting, and to make it easier to transport the RCRIS CLISTs to other TSO systems, all edits regarding accounts and prefixes have been removed. Consider the example below:

```
RCRT.RCRIS.CLIST(MREXTRA2)
&TFDSN SYSPROC,PROCSAVE,NOW
FREE DDNAME(SYSPROC)
&TDSCHECK 'RCRD.RCRIS.CLIST'
IF &STR(&MODE) EQ &STR(D) AND &LASTCC LT 4 THEN +
    SET &CLDEV = &STR('RCRD.RCRIS.CLIST')
ELSE +
    SET &CLDEV = &STR()
&TDSCHECK 'RCRT.RCRIS.CLIST'
IF (&STR(&MODE) EQ &STR(D) OR &STR(&MODE) EQ &STR(T) AND +
    &LASTCC LT 4 THEN +
    SET &CLTST = &STR('RCRT.RCRIS.CLIST')
ELSE +
    SET &CLTST = &STR()
ALLOC DDNAME(SYSPROC) DSNAME(&CLDEV &CLTST '&PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR UNIT(&TPMDISK)
/* --- If logon account is RCRx, prompt for databases to use.
IF &SUBSTR(1:3,&ACCT) EQ &STR(RCR) THEN DO
    GETORIG1: +
    &TCLEAR
    WRITENR ENTER S, R, OR M TO INDICATE STATE, REGION, OR MERGE +
        DATABASE: &STR()
    READ &ORIGIN

    IF &STR(&ORIGIN) EQ &STR(R) OR &STR(&ORIGIN) EQ &STR(S) THEN DO
        WRITE
        WRITENR ENTER STATE CODE: &STR()
        READ &STATE
    FIN
    ELSE IF &STR(&ORIGIN) EQ &STR(M) THEN DO
        GETREGN1: +
        WRITE
        WRITENR ENTER REGION CODE (01 - 10, H): &STR()
        READ &REGION
        IF &STR(&REGION) NE &STR(H) AND +
```

```

(&LENGTH(&STR(&REGION)) NE 2 OR +
(&STR(&REGION) NE &STR(01) AND &STR(&REGION) NE &STR(02) AND +
&STR(&REGION) NE &STR(03) AND &STR(&REGION) NE &STR(04) AND +
&STR(&REGION) NE &STR(05) AND &STR(&REGION) NE &STR(06) AND +
&STR(&REGION) NE &STR(07) AND &STR(&REGION) NE &STR(08) AND +
&STR(&REGION) NE &STR(09) AND &STR(&REGION) NE &STR(10))) +
THEN DO
    WRITE
    WRITENR *** MUST BE IN RANGE 01 TO 10 OR H. +
    PRESS ENTER KEY TO CONTINUE *** &STR()
    READ &DUMMY
    GOTO GETREGN1
FIN
IF &STR(&REGION) EQ &STR(H) THEN +
    SET &STATE = &STR(H)
ELSE +
    SET &STATE = &STR(R&SUBSTR(2:2,&REGION))
FIN
ELSE DO
    WRITE
    WRITENR *** PLEASE ENTER M, R, OR S. PRESS ENTER KEY TO +
    CONTINUE *** &STR()
    READ &DUMMY
    GOTO GETORIG1
FIN

CHKORIG1: +
&TCLEAR
WRITE DATABASE CODE: &ORIGIN
WRITE
IF &STR(&ORIGIN) EQ &STR(R) OR &STR(&ORIGIN) EQ &STR(S) THEN +
    WRITE STATE CODE: &STATE
ELSE IF &STR(&ORIGIN) EQ &STR(M) THEN +
    WRITE REGION CODE: &REGION
WRITE
WRITE
WRITENR IS THIS CORRECT ? (Y,N): &STR()
READ &DUMMY

IF &STR(&DUMMY) EQ &STR(Y) THEN +
    SET &DBPROG = &STR(&ACCT..&STATE&ORIGIN)
ELSE IF &STR(&DUMMY) EQ &STR(N) THEN +
    GOTO GETORIG1
ELSE DO
    WRITE
    WRITENR *** PLEASE ENTER 'Y' OR 'N'. PRESS ENTER KEY TO +
    CONTINUE *** &STR()
    READ &DUMMY
    GOTO CHKORIG1
FIN
FIN

/* --- Logged on as a production state,
/* --- get databases to be extracted from user account.

ELSE IF &SUBSTR(1:2,&ACCT) EQ &STR(KZ) THEN DO

```


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```
      SET &DBPROG = &STR(&ACCT)
      SET &ORIGIN = &STR(S)
      SET &STATE = &STR(&SUBSTR(3:4,&ACCT))
FIN

/* --- Logged on as a production region, prompt if region or merged
/* --- databases are to be extracted, get region number from account.

ELSE IF &SUBSTR(1:1,&ACCT) EQ &STR(K) AND +
      &SUBSTR(3:4,&ACCT) EQ &STR(DB) THEN DO
  GETORIG3: +
  &TCLEAR
  WRITENR ENTER 'R' FOR REGION EXTRACT, 'M' FOR MERGE EXTRACT: &STR()
  READ &ORIGIN
  IF &STR(&ORIGIN) NE &STR(R) AND &STR(&ORIGIN) NE &STR(M) THEN DO
    WRITE
    WRITENR *** PLEASE ENTER 'R' OR 'M'. PRESS ENTER KEY TO +
      CONTINUE. *** &STR()
    READ &DUMMY
    GOTO GETORIG3
  FIN

  CHKORIG3: +
  &TCLEAR
  WRITE DATABASE CODE: &ORIGIN
  WRITE
  WRITENR IS THIS CORRECT ? (Y,N): &STR()
  READ &DUMMY

  IF &STR(&DUMMY) EQ &STR(Y) THEN DO
    IF &STR(&ORIGIN) EQ &STR(M) THEN DO
      SET &STATE = &STR(&SUBSTR(2:2,&PROG))
      SET &DBPROG = &STR(&PROG)
    FIN
    ELSE IF &STR(&ORIGIN) EQ &STR(R) THEN DO
      SET &PANREG = &SUBSTR(2:2,&ACCT)
      ISPSTART CMD(%MRMUEXT2 &PANREG &ACCT &PROG &MODE &ORIGIN +
        &TDSHECK &TPRINTOF &TCLEAR +
        &TPMDISK &TWKDISK &TFOCACNT +
        &TFDSN &TACTRANG &TSPCMGMT +
        &TFLDEARC &TLINEDIT)
      GOTO THEEND
    FIN
  FIN
  ELSE IF &STR(&DUMMY) EQ &STR(N) THEN +
    GOTO GETORIG3
  ELSE DO
    WRITE
    WRITENR *** PLEASE ENTER 'Y' OR 'N'. PRESS ENTER KEY TO +
      CONTINUE *** &STR()
    READ &DUMMY
    GOTO CHKORIG3
  FIN
FIN

/* --- User account is not valid for this program. Terminate execution.
```

```
ELSE DO
  WRITE
  WRITENR *** UNKNOWN ACCOUNT TYPE.  PROGRAM TERMINATED. ***
  GOTO THEEND
FIN
```

It will be the responsibility of the end user RCRIS administrator to reenter these, if needed. Two global CLIST variables were added to handle permanent and temporary dataset allocations, &TPMDISK and &TWKDISK.

In the original CLIST, extra prompts were generated for certain user groups, such as "(P)RODUCTION, (T)EST, or (D)EVELOPMENT", "(M)ERGE, (R)EGION, OR (S)TATE", "ENTER REGION", "ENTER STATE", "ENTER BOX NUMBER". Some of these prompts were linked to the user's logon group; the box (bin) prompt was required for all users. These were removed from all CLISTs since they were not required outside of the EPA IBM system.

The JCL edit search and replace strings were changed to accommodate the syntax of the job card on the Washington State system.

The option to switch RCRIS databases was removed from the opening menu in FOCUS since there is only one set of databases.

For the batch end, the translation effort was more difficult. The GETMY CLIST function was used to retrieve the accounting parameters, which were then manipulated and placed into the proper positions on the job card with the system line editor. The job CLASS code was added (it is not used on the EPA IBM), and a default value was hard coded in the job stream in each case. If this proves unsatisfactory, a prompt can be added to each applicable CLIST for the CLASS and an additional change command can be added to modify the job card.

The parameter "MSGCLASS=T" was added to route the output to the HOLD queue and all references to SYSOUT=n were changed to 'SYSOUT=*'. The priority field was deleted since it was not used and the "/*ROUTE" card was deleted since it was not required when the output was routed to the hold queue. This will need to be changed if a default printer is to be assigned.

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RCRT.RCRIS.CNTL(MRULRCR2) <<BEFORE>>

=====

```
//IIIXTUL JOB (ZZZZRCRSD,BBBB,,9999),'EXTRACT FOR SSS',
// PRTY=2,TIME=5,MSGLEVEL=(1,1),NOTIFY=III,REGION=6000K
/*ROUTE PRINT RMT255
/*
/*
```

```
//FOCBATCH EXEC PGM=FOCUS
//STEPLIB DD DSN='SYS2.FOCUS.FOCLIB.LOAD',DISP=SHR
//USERLIB DD DSN='SYS2.FOCUS.FUSELIB.LOAD',DISP=SHR
//ERRORS DD DSN='SYS2.FOCUS.ERRORS.DATA',DISP=SHR
//SYSPRINT DD SYSOUT=A
//FOCEXEC DD DSN=QQQQ.RCRIS.FOCEXECI.DATA,DISP=SHR
//**RCRD** DD DSN=RCRD.RCRIS.FOCEXEC.DATA,DISP=SHR
//**RCRT** DD DSN=RCRT.RCRIS.FOCEXEC.DATA,DISP=SHR
// DD DSN=QQQQ.RCRIS.FOCEXEC.DATA,DISP=SHR
//MASTER DD DSN=RCRS.RCRIS.FOCMSTRI.DATA,DISP=SHR
//**RCRD** DD DSN=RCRD.RCRIS.FOCMSTER.DATA,DISP=SHR
//**RCRT** DD DSN=RCRT.RCRIS.FOCMSTER.DATA,DISP=SHR
// DD DSN=QQQQ.RCRIS.FOCMSTER.DATA,DISP=SHR
```

DBOW461.RCRIS.CNTL(MRULRCR2) <<AFTER>>

=====

```
//EXTRC461 JOB (3230,22-0),'EXTRACT FOR SSS',MSGCLASS=T,
// CLASS=D,TIME=5,MSGLEVEL=(1,1),NOTIFY=III,REGION=6000K
/*
/*
```

```
//FOCBATCH EXEC PGM=FOCUS
//STEPLIB DD DSN='WDPSC.FOCUS.FOCLIB.LOAD',DISP=SHR
//USERLIB DD DSN='WDPSC.FOCUS.FUSELIB.LOAD',DISP=SHR
//ERRORS DD DSN='WDPSC.FOCUS.ERRORS.DATA',DISP=SHR
//SYSPRINT DD SYSOUT=*
//FOCEXEC DD DSN=QQQQ.RCRIS.FOCEXECI.DATA,DISP=SHR
// DD DSN=QQQQ.RCRIS.FOCEXEC.DATA,DISP=SHR
//MASTER DD DSN=QQQQ.RCRIS.FOCMSTER.DATA,DISP=SHR
```

Certain DD statements in the JCL reference concatenated datasets (multiple datasets assigned to the same allocation "handle") In several cases it was necessary to remove some of the datasets since they did not exist on this system and caused the job to terminate. In addition, the PREFIX of the FOCUS system libraries was changed from "SYS2" to "WDPSC".

The name of the model dataset for Generation Data Group files was changed from 'MODEL.GDG.DSCB', which was used on the EPA IBM, to MODLDSCB.

6.1 Changes Required Because of Differences in System Functions

Global variables (described in Section 4) were added to facilitate changing the names of the system functions used in the RCRIS CLISTs to those which were in use on Washington State's system. In addition to &TPMPACK and &TWKPACK, which specify the permanence of datasets, several others were added as differences between the two systems became obvious.

RCRT.RCRIS.CLIST(MERGPRO) <<BEFORE>>

```
=====
/* --- Set up default values for all global command substitution parms.
SET &TDSCHECK = &STR(DSCHECK)
SET &TPRINTOF = &STR(PRINTOFF)
SET &TCLEAR   = &STR(CLR3270)
SET &TPMDISK  = &STR(DISK)
SET &TWKDISK  = &STR(DISK)
SET &TFOCACNT = &STR(SYS2)
SET &TFDSN    = &STR(FDSN)
SET &TACTRANG = &STR(4:7)
SET &TSPCMGMT = &STR($SM)
SET &TFLDEARC = &STR(HRECALL)
SET &TLINEDIT = &STR(E)
```

DBOW461.RCRIS.CLIST(MERGPRO) <<AFTER>>

```
=====
/* --- Set up default values for all global command substitution parms.
SET &TDSCHECK = &STR(LISTDSI)
SET &TPRINTOF = &STR(DSPRINT)
SET &TCLEAR   = &STR(KOMM RESET CLEAR)
SET &TPMDISK  = &STR(PRIM)
SET &TWKDISK  = &STR(SYSDA)
SET &TFOCACNT = &STR(WDPSC)
SET &TFDSN    = &STR(/*)
SET &TACTRANG = &STR(1:7)
SET &TSPCMGMT = &STR(/*)
SET &TFLDEARC = &STR(/*)
SET &TLINEDIT = &STR(EDIT)
```

The global variables used to replace select TSO commands include the following:

&TPRINTOF Since the PRINTOFF command does not use the box parameter, it was replaced with DSPRINT. For example: FOCEXEC PRINTFIL line 568.

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&TPRINTOF FOCUS.OFFLINE &PRTBOX DEST(&PRTRMT) COPIES(&PRTCOPY)

&TFDSN No replacement is yet available for the FDSN command outside of the ISPF environment. Options include:

- o Hard code all allocations to DD names
- o Log off and log on to reallocate
- o Write a new function to implement FDSN

&TFLDEARC The HRECALL command equivalent for systems with automatic archive function.

&TDSCHECK Used for the DSCHECK function. LISTDSI is equivalent except for the return codes. The return codes must be changed to match those returned by the function.

&TLINEDIT Used to call the line editor. A full screen editor cannot be used.

&TPMDISK The Pack ID for the permanent disk pack. For example: CLIST RCRISU, lines 633-634.

**ALLOC DD(HOLDMAST) DS(HOLDMAST) USING(AT2) + SPACE(10,10) CYL
DIR(15) UNIT(&TPMDISK) NEW DELETE**

&TWKDISK The Pack ID for the temporary disk pack. For example: CLIST RCRISU, line 641.

ALLOC DD(HOLD) DS(HOLD) SP(20,20) CYL REUSE UNIT(&TWKDISK)

&TCLEAR The command to clear the full screen terminal. Equivalent to the CLR3270 command as used at RTP.

&TFOCACNT The prefix for the FOCUS account. For example: CLIST RCRISU, line 480.

```
CALL '&TFOCACNT..FOCUS.FOCLIB.LOAD(FOCUS)'
```

&TSPCMGMT The space management command used to reclaim space used by new members in the PDS.

&TACTRANG Used to specify the substring range to identify the account associated with logon.

These changes to the CLISTs are not all of the answers to all of the questions concerned with the conversion. There will be a need for other touch-ups as well. In addition to the above mentioned global variables for CLISTs, there are three variables used to support FOCEXECs as well:

&&PRINTCMD PRINTOFF command. As used in the 'PRINTFIL' FOCEXEC, lines 34 - 35:

```
TSO &&PRINTCMD FOCUS.OFFLINE &BOX DES(&DEST) CO(&COPIES) CL(&CLASS)
&CAPS
TSO &&PRINTCMD FOCUS.OFFLINE2 &BOX DES(&DEST) CO(&COPIES) CL(&CLASS)
&CAPS
```

&&TPMPACK Permanent pack ID. As used in the 'PROFILSG' FOCEXEC, line 42

```
-SET &&TPMPACK = 'DISK';
```

&&TWKPACK Work pack ID, as used in the 'PROFILSG' FOCEXEC, line 43

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```
-SET &&TWKPACK = 'DISK';
```

There will be a need to set these variables in the PROFILSG portion of FOCEXECs, specifically:

```
XXXX.RCRIS.FOCEXEC.DATA
```

Some changes may also be required in JCL scripts that support RCRIS. Each JCL stream should be reviewed for possible required changes.

The FDSN function returns in a user-specified CLIST variable, all the datasets which are concatenated to a specific DDNAME. This is used when it is necessary to add a user dataset to the concatenation stack without losing the names of the other datasets which were previously concatenated. It is used in RCRIS to attach the user ISPF CLIST library to SYSPROC before entering RCRIS and to restore the old concatenation dataset list after exiting RCRIS. This was overcome on the Washington State computer by obtaining the name of the other datasets which were previously concatenated to SYSPROC and hard coding them into the allocation statement. Every RCRIS CLIST which uses SYSPROC will have to be updated if the system allocation of SYSPROC changes.

The variable &TACTRANG was set to 1:7 to include the entire user ID as the directory name PREFIX. The account is not contained within the PREFIX string as it is on the EPA IBM system. The distinction between permanent and temporary datasets does not exist on the EPA IBM; therefore, both UNIT variables are coded to the same value of "DISK".

The command "CLEAR" exists on the Washington IBM system; however, this is actually a member in the system CLIST dataset, which contains the line "KOMM RESET CLEAR". Since the "CLEAR" command did not function if SYSPROC was not set properly when the ISPF CLIST was concatenated, it was decided to use the actual system command.

The CLIST lines containing &TPRINTOF and &TSPCMGMT required editing wherever these variables were substituted, since the parameters were different for Washington State's version of these commands. The LISTDSI command did not function when &TDSCHECK was equated to "LISTDSI", even though the variable was substituted properly when the CLIST trace was enabled. This required that the "LISTDSI" command be hard coded wherever the CLIST variable &TDSCHECK was referenced. Substitutions for the other CLIST global parameters went smoothly and did not require any other CLIST changes.

7 NON-MVS CASE STUDY -- TEXAS STATE

This section provides an example of a non-MVS translator conversion of RCRIS software. The information included herein was provided by the programmers and analysts who worked on the conversion.

Texas altered RCRIS so that it would run under VM/CMS instead of MVS/TSO. The Texas VM/CMS environment consists of an IBM 9370 Model 90 computer with 16MB of memory, 8 FBA drives with 824MB each, 1 multi-speed tape drive and approximately 450 workstations attached via Token Ring network through an IBM 3745 Communications Controller. Texas also has a 9600 baud leased line connection to the EPA Region VI office in Dallas. The operating system is VM/SP 5.1 with CMS using FOCUS 6.0 with the RCRIS databases divided between 3 FOCUS Sync machines. The workstations are PCs running 3270 Emulation software.

It took approximately four months for Texas to work out the tape format for transporting RCRIS to the state system. The state needed a 6250 BPI tape that would contain the decrypted version of RCRIS with any PDS files broken down into individual members being separate tape files. The first file on the tape would be a list showing the order of the files on the tape. Once the tape format had been established and tested, a tape containing the CLISTs, FOCEXECs, CNTL files, DATA files and FOCUS master and database files for RCRIS was created. Another four months were required to install, convert, and debug RCRIS to the point where the state was ready to run the HWDMS-to-RCRIS conversion and load RCRIS. The basic steps required to complete the install and conversion included:

1. Wrote a REXX program to read the trailing label for each file and compute how many blocks of data there were so that enough disk space could be allocated for the RCRIS software.
2. Wrote a REXX program to read the first tape file and use it to control the unloading of the other files on the tape. Unloaded the tape to disk.
3. Wrote a REXX program to scan through all of the FOCEXECs to determine the type of TSO and Dialogue Manager commands needing CMS equivalents. (A person with knowledge MVS and/or an MVS command manual is essential to understanding the function of MVS commands.)
4. Wrote a REXX program to convert the TSO-related commands in the FOCEXECs to CMS equivalents (commented out TSO commands and inserted CMS equivalents). Ran conversion program.

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5. Determined what CLISTs did and wrote REXX equivalents for the ones needed to load, run, and maintain RCRIS. Not all CLISTs are needed.
6. Determined how to split the FOCUS database files between Sync machines. FOCUS COMBINE command pretty well determined what FOCUS files went to which Sync machine. CREATE command won't work with Sync machines, so database load programs access the FOCUS database directly.
7. Scanned for USE statements to each PROFILSG FOCEXEC that was used by a Texas-converted CLIST.
8. Altered the batch submission parts of RCRIS to interface with the Texas BATCH environment.
9. Wrote REXX and CLIST programs to handle uploading and downloading of flat files across the leased phone line for the MERGE process. At MERGE, Texas will upload flat files to the state account on the NCC computer. Then the Region will use those files as input to the MERGE process. When the MERGE is completed, the flat files containing the EPA's data will reside in the Texas account on the NCC computer and Texas will download them to the state system for the MERGE UPDATE.
10. Fine-tuned FOCUS to improve response time.

These ten steps resulted in the successful installation and conversion of RCRIS 1.2.1.



APPENDIX A SYSTEM FEATURES USED BY RCRIS

CLIST. A dataset or dataset member which contains a series of TSO commands and other logic which can assign and compute variables, test values and perform branching, display prompts and data and prompt for user input, and read/write datasets. It allows prompting the user for certain items, then using the stored values for these to effect program branching and parameter substitution. These can be used to allocate the correct datasets and run an application.

Certain variables have been pre-defined in the CLIST environment to contain special system values; they are listed below. (Note: CLIST variables begin with an ampersand (&), with only a few exceptions.)

<u>VARIABLE</u>	<u>CONTENTS</u>
&SYSPREF	Current set user PREFIX (default: logon ID)
&SYSUID	Logon ID of user
&SYSTIME	System time in form HH:MM:SS
&SYSDATE	System date in form MM/DD/YY
&SYSJDATE	System Julian date in form YY.JJJ

In addition, two functions are frequently used in the RCRIS CLISTs: 1) &STR(&C) prevents the system from performing calculations on the variable before it is tested or assigned, and 2) &SUBSTR(L:H,&C) extracts from position L to position H inside of character variable &C. L and H may also be variables, or L:H may be assigned to a single variable. If L is greater than H, or if position L or H is outside the string, then an error is returned.

RCRIS uses many advanced CLIST language features of TSO/E Version 2. First, the SELECT statement is used, replacing the use of IF .. THEN ... ELSE ... statements. Second, within a CLIST there are calls to a subprocedure. Third, the function &SYSINDEX is used to search for a substring of data contained within a larger string of data. Fourth, the DO Loop with an Index is used. Fifth, the NGLOBAL is used to pass global parameters locally to a subroutine within the same CLIST. Sixth, &SYSDSN is now used to replace DSCHECK. &SYSDSN is a more powerful feature. The DSCHECK only verifies the existence or nonexistence of a dataset. The &SYSDSN verifies the existence of a dataset and recalls it if necessary. If the dataset is migrated, the system goes into a wait state while the dataset is automatically recalled.

Interactive System Productivity Facility (ISPF). ISPF is an IBM utility which provides standard features such as a full screen editor and dataset manipulation utilities. It also has utilities which can be used inside of CLISTs and programs to manipulate datasets and provides

a capability to define and manipulate data entry screens. It is used in RCRIS to generate screens to prompt for data before FOCUS is started and to perform dataset utilities while inside of FOCUS.

Generation Data Group (GDG). GDG provides sequenced back-up capability on the IBM mainframe. Each dataset of this type is suffixed with a generation and version number. The maximum number of versions which the system retains is determined when the GDG is defined. If back-ups are performed to a GDG regularly, it is then possible to restore a dataset to any previous state within the limits of the number of backups retained. GDG is used in RCRIS to back up the RCRIS FOCUS databases before an update is performed.

TSO COMMANDS USED BY RCRIS

ALLOC This is used in the RCRIS CLIST to associate an existing dataset with a ddname. The ddname is the name that is used in the application program to reference the dataset or device. The program can refer to the dataset name by its ddname. This allows the name of the dataset or device to be changed without requiring a program modification. ALLOC is used to assign databases and program libraries for the RCRIS programs in FOCUS.

The ALLOC command has several parameters which can be used to specify information about a dataset to the operating system. (For detailed information, refer to the IBM TSO Job Control Language Manual.)

LRECL = The length of the file record. If the format of the record is variable, this gives the maximum record length.

BLKSIZE = Indicates the number of characters in a block of records. Must be a multiple of the record length.

RECFM = The internal format of the record. Common values are F (fixed), FB (fixed block), V (variable), VB (variable blocked), and U (undefined).

DSORG = The system format of the file. Common values are PS (physical sequential) and PO (partitioned organization).

DISP = The beginning and ending file disposition.

NEW	—	the file does not exist and will be created.
MOD	—	create the file if it does not exist, append to file if it already exists

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CATALOG	—	save the file when the program completes and update the dataset statistics in the user directory
DELETE	—	erase the dataset when the program completes
SHR	—	open an existing dataset for multiuser access
OLD	—	open an existing dataset for single user access

DIR = The amount of directory space to allocate for the member names in a PDS

ATTRIB This command allows file attributes to be associated with a user-assigned name. The name can then be referenced in a file allocation statement. This saves typing and allows certain attributes to be standardized across selected datasets. It is used when datasets of similar characteristics are allocated for RCRIS.

CALL This allows a CLIST to invoke a program load module interactively after all files and devices have been assigned. It is used to invoke FOCUS to run the RCRIS system after all datasets and devices have been allocated using the ALLOC command above.

CLR3270 This command is used to clear the screen in a CLIST. It should be available on all systems, although the name may be different.

DSPRINT This TSO command is issued in the foreground region to copy a dataset to a print file. Then a background print processor copies the print file to the printer. Thus, a user does not have to wait while the dataset prints. (Also see "PRINTOFF")

FDSN This function returns the datasets allocated to a DDNAME in a specified CLIST variable. An option is provided to return either the current allocated datasets, or for system DDNAMEs, the datasets allocated at logon. This custom function exists on many TSO systems, although the name and syntax will vary.

FREE The FREE function is used to deallocate datasets that were allocated with the ALLOC command. FREE disassociates a file "handle" from a dataset or device so that it can be assigned to a different file or device. Also, when the dataset is deallocated with the FREE command, the disposition specified on the ALLOC command is processed and SYSOUT data is released to JES2/JES3. FREE can be used, for example, to switch the name of a report output dataset.

HRECALL This utility is used to recall datasets which have been archived by the system to tape. This command is only useful if the system utilizes the DFHSM utility for automatic dataset tape archive/dearchive.

LISTDSI dsn Function to check for existence of 'dsn'. Returns numeric status code in CLIST variable '&SYSREASON'. If dataset is found, several other CLIST variables which describe the dataset attributes are set. These variables can be queried by the CLIST. Can be set to not recall archived datasets during query.

PRINTDS (See DSPRINT.)

PRINTOFF This TSO command is used to send output to the system printer. It should be available on most systems, although the name and parameters may be different.

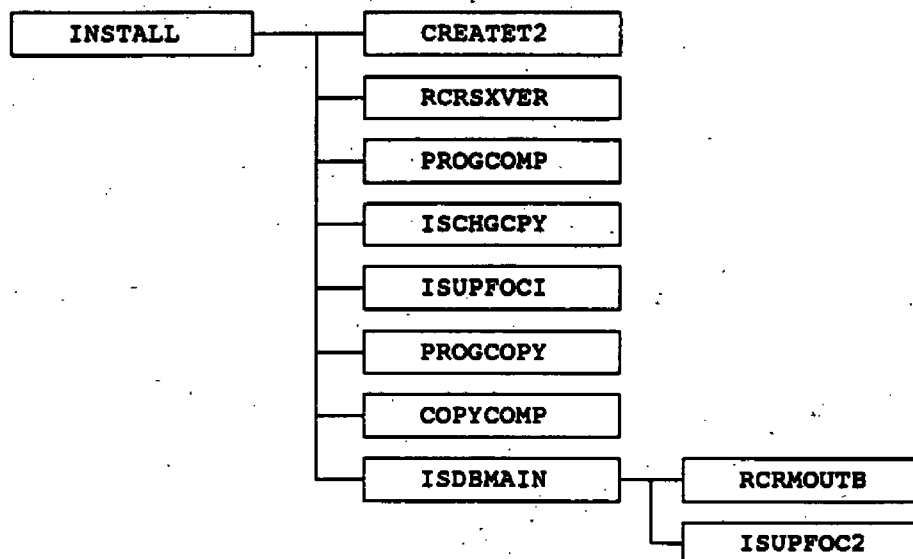
\$AR. Queues a dataset to be permanently archived to tape. On the EPA system this is either two or seven years depending on the options specified. A command to perform this function should be available on most systems, although the name, syntax, and options will probably be different.

\$SM. This command is used to compress partitioned datasets after they have been updated with new members. It should be available on most other IBM TSO systems, although the name and usage will probably be different.

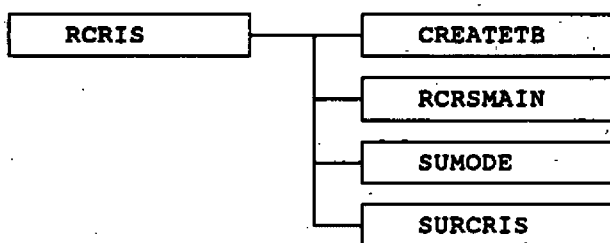
&SYSDSN(dsn) Function to check for existence of 'dsn'. Returns 'OK' if dataset exists and is available, otherwise returns an error message. The problem with this function is that it will recall migrated datasets before returning a status, which can cause long delays.

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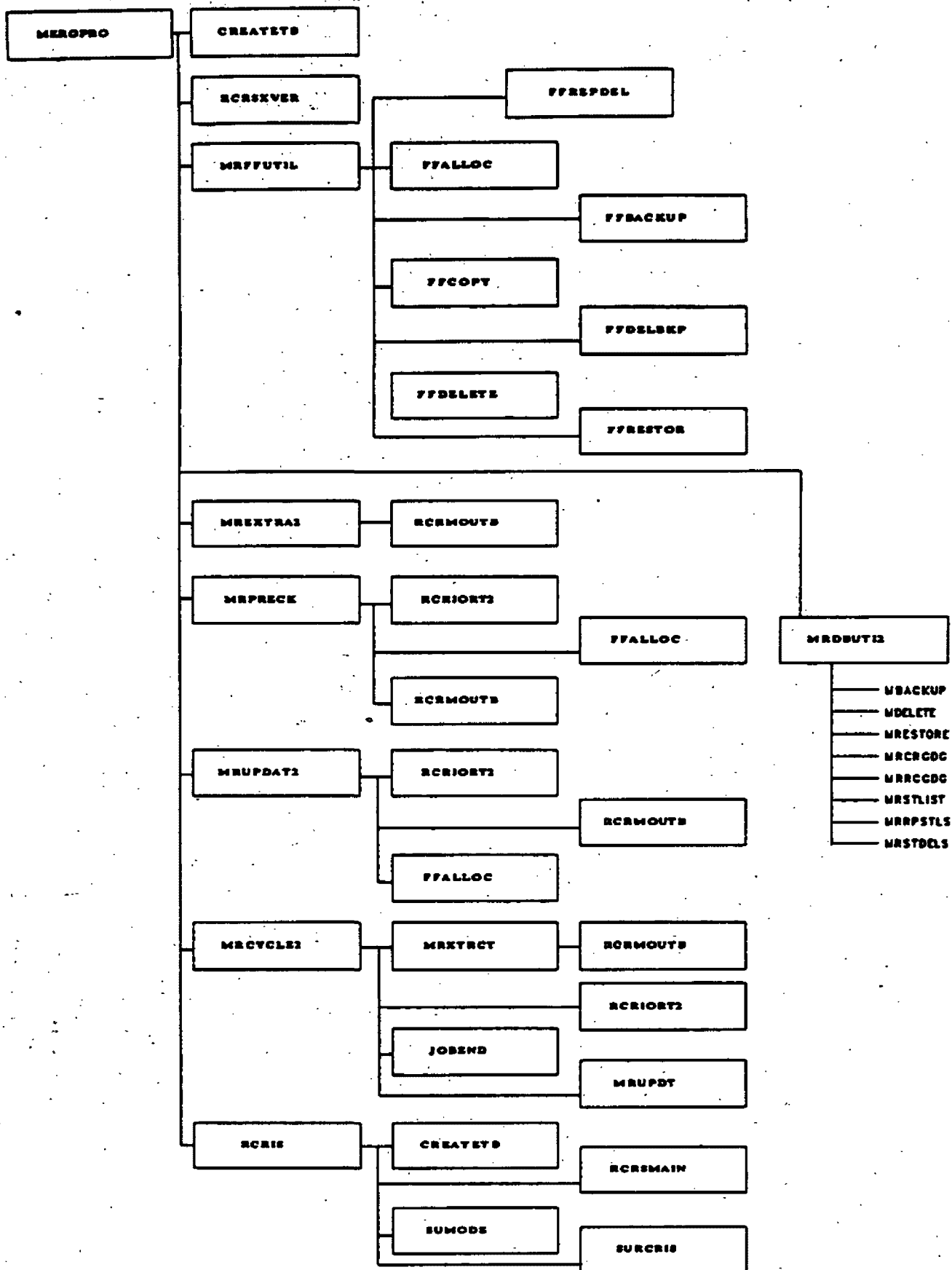
APPENDIX B PROGRAM NAVIGATION CHARTS



Above: Navigational CLIST Chart for RCRIS INSTALL



Above: Navigational CLIST Chart for RCRIS Data Entry



Navigational CLIST Chart for MERGPRO

APPENDIX C SYSTEM KEY PROGRAM SUMMARIES

COPYCOMP This program deletes and reallocates all compiled Turbo PDS libraries, then copies all the members from 'aaaa.RCRIS.FOCCOMP.DATA' into the corresponding Turbo PDS libraries.

FFALLOC This CLIST allocates all flat files for the user.

FFBACKUP This CLIST makes a back-up of all flat files in the user account. This is done by copying each existing flat file dataset to a new dataset and changing the last level qualifier from '.MDB' to '.BACKUP'.

FFCOPY This CLIST makes a copy of all flat files in the user account. This is done by copying each existing flat file dataset with the same name to a new dataset in another specified user account.

FFDELBKP This CLIST deletes the back-up copy of all merged database flat files in the user account which end with '.BACKUP' for the given state and Julian date.

FFDELETE This CLIST deletes all flat files in the specified user account which end with '.MDB' for the given state and Julian date.

FFRESTOR This CLIST restores from back-up all flat files in the user account. This is done by copying each existing flat file dataset to a new dataset and changing the last level qualifier from '.BACKUP' to '.MDB' for the given state and Julian date.

INSTALL This program is the top level CLIST for the RCRIS installation/reinstallation utility. It prompts the user for a password, checks that the user account is valid, then calls the CLIST ISUPINST to perform the remainder of the installation process under the ISPF environment. This allows the program to use ISPF panels to prompt for the states under each region which need to have RCRIS installed.

MBACKUP This CLIST makes a back-up of all selected RCRIS FOCUS databases. The user is prompted for the database account and database ID. The Merged databases are then backed up in the same account using the proper naming conventions and the last level of each database is changed from '.FOCUS' to '.BACKUP'.

MDELETE This CLIST prompts the user for the database account and database ID of the database back-ups to be deleted. All RCRIS FOCUS databases which have a last level of '.BACKUP' are deleted from the user account.

MERGPRO This CLIST is the main CLIST to run all Merge utilities and functions outside of RCRIS. It also has an option to run the RCRIS CLIST.

MODEEXEC Determine the proper CLIST to execute from.

MODEPCPY Copies a custom PROFILE from the FOCEXEC library to the user's account. This is concatenated in front of the other FOCEXEC PDS to override the default PROFILE startup procedure.

MODESCPY Copies a JCL member from the system CNTL library to the user's account. The JCL is then edited and submitted.

MOUFCOPY This CLIST copies the MOU table flat file from a specified user account to another specified account.

MOUFDEL This CLIST deletes MOU flat file in prompted account.

MRCRGDG Create a base for a Generation Dataset Group under a specified account, or in the user's logon account. The functions performed depend on the user's account.

MRCYCLE2 This module streamlines all the batch merge processes for all the Regions and States under each merged database from a single menu. Users have an option to run all processes or to select a certain process. Processes are in the following order:

1. Consolidator Refresh
2. Extract
3. Update Merge
4. Co-Implementer Refresh
5. Universe Calculation

The system promotes all necessary information if a user selects only certain processes.

MRDBUTL2 This is the Main Menu for database Utilities called from MERGPRO.

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MRESTORE This restores from back-up all selected RCRIS FOCUS databases. The user is prompted for the database account database ID. The Merged databases are then restored in the specified account using the proper naming conventions and the last level of each database is changed from '.BACKUP' to '.FOCUS'.

MREXTRA2 This module is called to perform either an extract to the oversight database from the regional merged database or to extract data from the state or region databases to flat files to send to the merge update. This module prompts for the region, state, and possibly the PDS set to use (Production, Test, or Development) depending on the logon prefix of the user. If the user logged on as a region, then an ISPF panel is displayed, allowing selection of the regional databases that are to have extracts performed on them. If all questions are answered, then another CLIST is called to edit the resulting JCL and submit the batch job. Except for the Merged database, before submitting batch job, user is prompted whether to generate update detail report during merge update. Submitting an extract batch job requires seven parameters:

1. The passed system prefix (&PROG)
2. The prefix of the required datasets
3. The current logon prefix (&ACCT)
4. The extract type (CYCLICAL or REFRESH)
5. The selected 2 character state ID
6. Extract option (Merge, Region, or State)
7. PDS files (Production, Test, or Development)

MRFFUTIL This is the Main Menu for Flat File Utilities called from MERGPRO.

MRPRECK Main module for RCRIS database preload routine (St/Reg/Merge). This module is called to prepare and submit a preload batch job. It requires seven parameters:

1. The passed system logon prefix (&Z)
2. The prefix of the required datasets
3. The current logon prefix (&A)
4. Control file name (ssoCLjij)

5. The selected 2 character state ID
6. Extract option (Merge, Region, or State)
7. PDS files (Production, Test, or Development)

MRCRGDG Recover from data stored in a Generation Dataset Group to the specified user account. The functions performed depend on the user's account. This utility can perform three different functions:

1. Recover data from a Generation Dataset Group to a K account (K#DB.sso or KZss.sso). If the user signs on as K#DB or KZss, then the GDG data will automatically be copied to the logon group account.
2. If the user logs in as RCRT, then the user can specify whether to recover GDG data for merge, a region, or a state in the RCRT account. The data to be recovered must already have been backed up to a GDG previously created in RCRT.
3. If the user logs in as RCRD, then the user can specify whether to recover GDG data for merge, a region, or a state in the RCRD account. The data to be recovered must already have been backed up to a GDG previously created in RCRD. The user is also privileged to recover GDG data for merge, region, or state databases in any region or state K account. In this case, the data to be recovered must already have been backed up to a GDG previously created under the K account.

MRRPSTLS State List report.

MRSTLIST State List maintenance

MRUPDAT2 This module is called to perform either an update to the regional merged database from the region or state level or to update the region databases from the state data (or to update the state databases from the region data). This module prompts for the region, state, and possibly the PDS set to use (Production, Test, or Development) depending on the logon prefix of the user. If the user logged on as a region, then an ISPF panel is displayed allowing selection of which state or regional databases are to be updated TO merge or which regional databases are to be updated FROM merge. If all questions are answered, then another CLIST is called to edit the resulting JCL and submit the batch job. Submitting an update batch job requires seven parameters:

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1. The passed system logon prefix (&Z)
2. The prefix of the required datasets
3. The current logon prefix (&A)
4. Control file name (SSOCLJJJ)
5. The selected 2 character state ID
6. Extract option (Merge, Region, or State)
7. PDS files (Production, Test, or Development)

PROGCOMP This program compiles all the compilable members in 'xxxx.RCRIS.FOCEXEC.DATA' to 'xxxx.RCRIS.FOCCOMP.DATA'. xxxx stands for the account for production, development, or test.

PROGCOPY This program copies all of the members from the dataset 'xxxx.RCRIS.FOCEXEC.DATA' into the corresponding Turbo PDS libraries.

```
ALLOC  DSNAME(' &ACCT..RCRIS.MAIN.FOCEXEC.DATA')    SPACE(1,2) +
        DIR(10) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
ALLOC  DSNAME(' &ACCT..RCRIS.CA.FOCEXEC.DATA')      SPACE(1,2) +
        DIR(10) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
ALLOC  DSNAME(' &ACCT..RCRIS.CME.FOCEXEC.DATA')      SPACE(3,2) +
        DIR(15) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
ALLOC  DSNAME(' &ACCT..RCRIS.HID.FOCEXEC.DATA')      SPACE(2,2) +
        DIR(15) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
ALLOC  DSNAME(' &ACCT..RCRIS.PMT.FOCEXEC.DATA')      SPACE(2,2) +
        DIR(15) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
ALLOC  DSNAME(' &ACCT..RCRIS.PMFMPDBA.FOCEXEC.DATA') SPACE(5,2) +
        DIR(30) CYLINDERS NEW CAT USING(REC80)        UNIT(&TPMDISK)
```

RCRIORT2 This CLIST is called from the merge update utility to allocate the FOCUS datasets necessary to invoke FOCUS and TABLE the IORTABLE database to a sequential file. This data are then returned to the merge utility and are used to determine the order in which batch jobs are submitted (that is, does the region or state batch job get submitted first for a particular state?).

RCRIS This is the CLIST to invoke RCRIS DBMS in a single user environment.



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APPENDIX D - TSO CALLS FROM FOCEXECs

RCRIS makes TSO calls from FOCEXECs. These FOCEXECs will require modifications if the TSO functions are not implemented in the same way as those in the development environment. The listings in this appendix show all TSO calls from each of the RCRIS FOCEXECs.

ALLOACTS ----- STRING(S) FOUND -----

```
55  -? TSO DSNNAME '&FIL'
137 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
143 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
150 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
179 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
184 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
190 TSO ALLOC DD(MASTER) DS('&&ACCT...RCRIS.FOCHSTER.USER' -
233 TSO ISPSTART CMD(XSUNODE &SELECACT &DATABASE &&DTP -
237 -? TSO DDNAME SYNCA
```

BACKDOOR ----- STRING(S) FOUND -----

```
13 TSO ALLOC F(ORIGIN) DA(ORIGIN.FOCTEMP) NEW
23 TSO DELETE ORIGIN.FOCTEMP
25 TSO FREE DD(ORIGIN)
```

CACOMPIL ----- STRING(S) FOUND -----

```
14 TSO ALLOC DDNAME(UPDTABFT) DUMMY REUSE
15 TSO ALLOC DDNAME(HOLDCHID) DUMMY REUSE
54 TSO FREE DDNAME(UPDTABFT)
55 TSO FREE DDNAME(HOLDCHID)
```

CAMUMAIN ----- STRING(S) FOUND -----

```
59 TSO ALLOC DDNAME(HOLDCHID) UNIT(&&TWKPACK) SPACE(1) REUSE -
79 TSO ALLOC DDNAME(UPDTABFT) UNIT(&&TWKPACK) SPACE(10,10) -
226 -? TSO DDNAME UPDTABFT
```

CAMUNEW ----- STRING(S) FOUND -----

```
20 TSO FREE ATTRLIST(REC14)
21 TSO FREE DDNAME(UPDTABFT)
22 TSO DELETE RCRIS.UPDTABLE.DATA
29 TSO ATTRIB REC14 LRECL(14) BLKSIZE(4242) RECFM(F B) DSORG(PS)
30 TSO ALLOC DD(UPDTABFT)DS(RCRIS.UPDTABLE.DATA)SP(10,10)TR NEW CAT US(REC14) -
32 TSO FREE ATTRLIST(REC14)
37 TSO FREE DDNAME(UPDTABFT)
38 TSO ALLOC DDNAME(UPDTABFT) DSNNAME(RCRIS.UPDTABLE.DATA) OLD
135 TSO FREE DDNAME(UPDTABFT)
136 TSO ALLOC DDNAME(UPDTABFT) DSNNAME(RCRIS.UPDTABLE.DATA) OLD
148 TSO FREE DDNAME(UPDTABFT)
149 TSO ALLOC DDNAME(UPDTABFT) DSNNAME(RCRIS.UPDTABLE.DATA) OLD
166 TSO FREE DDNAME(UPDTABFT)
167 TSO ALLOC DDNAME(UPDTABFT) DSNNAME(RCRIS.UPDTABLE.DATA) OLD
179 TSO FREE DDNAME(UPDTABFT)
180 TSO ALLOC DDNAME(UPDTABFT) DSNNAME(RCRIS.UPDTABLE.DATA) OLD
196 TSO FREE DDNAME(UPDTABFT)
197 TSO ALLOC DDNAME(UPDTABFT) DS(RCRIS.UPDTABLE.DATA) OLD
209 TSO FREE DDNAME(UPDTABFT)
```

```

210 TSO ALLOC DDNAME(UPDTABFT) DS(RCRIS.UPDTABLE.DATA) OLD
227 TSO FREE DDNAME(UPDTABFT)
228 TSO ALLOC DDNAME(UPDTABFT) DSNAME(RCRIS.UPDTABLE.DATA) OLD
240 TSO FREE DDNAME(UPDTABFT)
241 TSO ALLOC DDNAME(UPDTABFT) DSNAME(RCRIS.UPDTABLE.DATA) OLD
254 TSO FREE DDNAME(UPDTABFT)
255 TSO ALLOC DDNAME(UPDTABFT) DSNAME(RCRIS.UPDTABLE.DATA) OLD
267 TSO FREE DDNAME(UPDTABFT)
268 TSO ALLOC DDNAME(UPDTABFT) DSNAME(RCRIS.UPDTABLE.DATA) OLD

CARPASMT ----- STRING(S) FOUND -----
277 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPCOMP ----- STRING(S) FOUND -----
232 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPCOMP ----- STRING(S) FOUND -----
259 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPDET1 ----- STRING(S) FOUND -----
290 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPDEV ----- STRING(S) FOUND -----
60 TSO FREE DDNAME(%&PRINTDD)
61 TSO ALLOC DDNAME(%&PRINTDD) DSN(FOCUS.OFFLINE2) MOD UNIT(%&TWKPACK)
76 TSO FREE DDNAME(%&PRINTDD)
77 TSO ALLOC DDNAME(%&PRINTDD) DSNAME(*)

CARPDEV1 ----- STRING(S) FOUND -----
59 TSO FREE DDNAME(%&PRINTDD)
60 TSO ALLOC DDNAME(%&PRINTDD) DSN(FOCUS.OFFLINE2) MOD UNIT(%&TWKPACK)
75 TSO FREE DDNAME(%&PRINTDD)
76 TSO ALLOC DDNAME(%&PRINTDD) DSNAME(*)

CARPDUE ----- STRING(S) FOUND -----
473 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPD001 ----- STRING(S) FOUND -----
176 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
196 TSO FREE DD(DDFILEIN)

CARPINFF ----- STRING(S) FOUND -----
374 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPPAST ----- STRING(S) FOUND -----
469 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

CARPSEL1 ----- STRING(S) FOUND -----
191 TSO ISPSTART CMD(%&SCHECK HIRPSEL1 %&FILENAME)
193 -? TSO DDNAME DDFILEIN

```


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CARPSL4 ----- STRING(S) FOUND -----

```
381 TSO ISPSTART CMD(XDSCHECK HIRPSEL1 &FILENAME)
383 -? TSO DDNAME DDFILEIN
```

CARPSPOV ----- STRING(S) FOUND -----

```
106 TSO FREE ATTRLIST(RC133)
107 TSO FREE DDNAME(OFFLINE)
108 TSO ATTRIB RC133 LRECL(133) BLKSIZE(3990) RECFM(F B A) DSORG(PS)
109 TSO ALLOC DD(OFFLINE)DS(RCRIS.&FILEOUT.DATA)SP(50,10)TR NEW CAT REL US(RC133)
110 TSO FREE ATTRLIST(RC133)
```

CARPSPM7 ----- STRING(S) FOUND -----

```
291 TSO ATTRIB TT1 LRECL(80) BLKSIZE(800) RECFM(F B) DSORG(PS)
292 TSO ALLOC DD(TEMPY) DS(TEMPY.DATA) SP(1,1) TR MOD CAT US(TT1) REU -
294 TSO FREE ATTRLIST(TT1)
299 TSO ALLOC DD(MRRPFILE) DS(TEMPY.DATA) SHR REUSE
305 TSO DELETE TEMPY.DATA
```

CARP0005 ----- STRING(S) FOUND -----

```
252 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -
```

CARP0006 ----- STRING(S) FOUND -----

```
1330 TSO FREE F(CARP6A)
1331 TSO FREE F(CARP6E)
1332 TSO FREE F(CARP6F)
1442 TSO FREE F(CARP6A)
1443 TSO FREE F(CARP6B)
1444 TSO FREE F(CARP6E)
1450 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -
```

CARP0007 ----- STRING(S) FOUND -----

```
52 TSO FREE DD(SUM1)
53 TSO ALLOC DD(SUM1)DS(CARPT7.TEMP2)LREC(80)BLK(800)RECF(F B) -
713 TSO ALLOC DD(MRRPFILE) DS(CARPT7.TEMP2)
771 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -
798 TSO FREE DD(SUM1)
799 TSO FREE DS(CARPT7.TEMP2)
```

CDEVICE ----- STRING(S) FOUND -----

```
64 TSO FREE DDNAME(OFFLINE)
65 TSO ALLOC DDNAME(OFFLINE) DDNAME(RCRIS.FOCUS.OFFLINE) MOD -
105 -? TSO DSNAME RCRIS.&OUTFILE
116 TSO FREE ATTRLIST(RC133)
117 TSO FREE DDNAME(OFFLINE)
118 TSO ATTRIB RC133 LRECL(133) BLKSIZE(3990) RECFM(F B A) DSORG(PS)
119 TSO ALLOC DD(OFFLINE) DS(RCRIS.&OUTFILE...DATA) -
121 TSO FREE ATTRLIST(RC133)
```

CESEL ----- STRING(S) FOUND -----

```
410 TSO FREE ATTRLIST(REC80)
411 TSO FREE DDNAME(CACTIVIT)
412 TSO DELETE RCRIS.CACTIVIT.DATA
418 TSO ATTRIB REC80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
419 TSO ALLOC DD(CACTIVIT) DS(RCRIS.CACTIVIT.DATA) SP(1,1) TR NEW CAT -
421 TSO FREE ATTRLIST(REC80)
456 TSO FREE DDNAME(CACTIVIT)
```

```

CFIELD1          ----- STRING(S) FOUND -----
      1 TSO DELETE RCRIS.CDUMMY.FOC

CFIELD4          ----- STRING(S) FOUND -----
      45 TSO DELETE RCRIS*.FOCTEMP

CHKACCKXS        ----- STRING(S) FOUND -----
      197 TSO FREE DDNAME(IDHOLD)
      226 TSO FREE DDNAME(IDHOLD)
      269 TSO FREE DDNAME(IDHOLD2)

CNEASSES         ----- STRING(S) FOUND -----
      124 TSO FREE ATTRLIST(REC80)
      125 TSO FREE DDNAME(CSELECT)
      126 TSO DELETE RCRIS.CSELECT.DATA
      132 TSO ATTRIB REC80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
      133 TSO ALLOC DD(CSELECT) DS(RCRIS.CSELECT.DATA) SP(1,1) TR US(REC80)
      134 TSO FREE ATTRLIST(REC80)
      141 TSO FREE ATTRLIST(REC80)
      142 TSO FREE DDNAME(CSELECT)
      143 TSO DELETE RCRIS.CSELECT.DATA
      149 TSO ATTRIB REC80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
      150 TSO ALLOC DD(CSELECT) DS(RCRIS.CSELECT.DATA) SP(1,1) TR US(REC80)
      151 TSO FREE ATTRLIST(REC80)
      402 TSO FREE DDNAME(CSELECT)

CNECOMP          ----- STRING(S) FOUND -----
      28 TSO ALLOCATE DDNAME(HOLDCHID) DUMMY
      141 TSO FREE DDNAME(HOLDCHID)

CMFMENFO         ----- STRING(S) FOUND -----
      340 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

CMFMNEVAL        ----- STRING(S) FOUND -----
      456 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

CMUGENL          ----- STRING(S) FOUND -----
      254 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

CMUMAIN          ----- STRING(S) FOUND -----
      30 TSO ALLOC DDNAME(HOLDCHID) UNIT(&&TWKPACK) SPACE(1) TRACK -

CMRPBAT          ----- STRING(S) FOUND -----
      85 -? TSO DDNAME HANDLER1
      224 -? TSO DDNAME FOCEXEC
      232 -? TSO DDNAME MASTER
      253 -? TSO DDNAME OFFLINE
      263 -? TSO DDNAME FIRPTMP
      267 TSO ALLOC DD(FIRPTMP) NEW CAT DELETE -
      276 -? TSO DDNAME FIRPTMP
      385 -? TSO DDNAME TEMP

```

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```

386 TSO EX '&DSNAME'
392 TSO SUBMIT '&SUBMIT'
398 -? TSO DDNAME TEMP
399 TSO EX '&DSNAME'

```

CMRPPCOMP ----- STRING(S) FOUND -----

```

919 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

```

CMRPPDEV1 ----- STRING(S) FOUND -----

```

55 TSO FREE DDNAME(%RPCMDD)
56 TSO ALLOC DDNAME(%RPCMDD) DSNAME(FOCUS.OFFLINE2) MOD UNIT(%&TWKPACK)
71 TSO FREE DDNAME(%RPCMDD)
72 TSO ALLOC DDNAME(%RPCMDD) DSNAME(*)

```

CMRPPENNO ----- STRING(S) FOUND -----

```

146 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

```

CMRPPVNO ----- STRING(S) FOUND -----

```

145 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

```

CMRPPSEL2 ----- STRING(S) FOUND -----

```

295 TSO ISPSTART CMD(%DSCHECK MRPSEL1 %FILENAME)
297 -? TSO DDNAME DDFILEIN

```

CMRPPSEL5 ----- STRING(S) FOUND -----

```

156 -? TSO DSNAME %FILENAME
158 TSO FREE DDNAME(DDFILEIN)
160 TSO ALLOC F(DDFILEIN) DA(%FILENAME) SHR REUSE

```

CMRPPSEL8 ----- STRING(S) FOUND -----

```

171 -? TSO DDNAME IDINPUT
189 TSO COPY IDINPUT %FILENAME NONUM RECFM(FB)
270 TSO ALLOC DD(IDINPUT) DA(%FILENAME) LRECL(12) BLKSIZE(1200) -

```

CMRPPVINO ----- STRING(S) FOUND -----

```

149 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

```

CONTROL2 ----- STRING(S) FOUND -----

```

25 TSO FREE DD(HANDLER1)
26 TSO FREE DD(NAME)

```

CRPTENF2 ----- STRING(S) FOUND -----

```

31 TSO FREE DDNAME(HOLD)
78 TSO FREE DDNAME(HOLD)
111 TSO FREE DDNAME(HOLD2)

```

CRPTEVA2 ----- STRING(S) FOUND -----

```

68 TSO FREE DDNAME(HOLD)

```

CRPTEVA3 ----- STRING(S) FOUND -----

33 TSO FREE DDNAME(HOLD)
79 TSO FREE DDNAME(HOLD)
114 TSO FREE DDNAME(HOLD2)

CRPTEVA5 ----- STRING(S) FOUND -----

31 TSO FREE DDNAME(HOLD)
78 TSO FREE DDNAME(HOLD)
113 TSO FREE DDNAME(HOLD2)

CVREPORT ----- STRING(S) FOUND -----

31 -? TSO DDNAME EVENTFLT
34 -? TSO DDNAME AREAFLT
37 -? TSO DDNAME CAINST2
40 -? TSO DDNAME CAINST3
43 -? TSO DDNAME CAINST4
46 -? TSO DDNAME CAINST5
49 -? TSO DDNAME ETMPFLT
52 -? TSO DDNAME COMMENT2

DAMMAIN ----- STRING(S) FOUND -----

45 -? TSO DSNAME '&EDTERR'
61 TSO FREE DD(EDTERROR)
62 TSO ALLOC DD(EDTERROR) DSNAME('&EDTERR') SHR
76 TSO FREE DD(EDTERROR)

DARPTOT ----- STRING(S) FOUND -----

86 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &DBPROG BATCHRP1 &&FIL1 &&FIL1 -

DBDESTDS ----- STRING(S) FOUND -----

89 TSO FREE DD(DTEMP1)
112 TSO FREE DD(DTEMP2)

DBHCHGID ----- STRING(S) FOUND -----

70 TSO ALLOC DDNAME(DUMP1) SPACE(10,10) TRACK REUSE -
77 TSO FREE DDNAME(CHANGE UTLDUPTB)
80 -? TSO STATE DSNAME RCRIS.CHANGE.DATA
82 TSO DELETE RCRIS.CHANGE.DATA
86 -? TSO STATE DSNAME RCRIS.UTLDUPTB.DATA
88 TSO DELETE RCRIS.UTLDUPTB.DATA
91 TSO ALLOC DDNAME(CHANGE) DSNAME(RCRIS.CHANGE.DATA) SPACE(5,5) -
95 TSO ALLOC DDNAME(UTLDUPTB) DSNAME(RCRIS.UTLDUPTB.DATA) SPACE(10,10) -
103 TSO ALLOC DDNAME(CHANGE) DSNAME(RCRIS.CHANGE.DATA) OLD REUSE
251 -? TSO DSNAME RCRIS.UTLDUPTB.DATA
271 TSO FREE DDNAME(CHANGE DUMP1 UTLDUPTB)
272 TSO DELETE RCRIS.CHANGE.DATA
273 TSO DELETE RCRIS.UTLDUPTB.DATA

DBHNDL ----- STRING(S) FOUND -----

54 TSO FREE DDNAME(DUMP1)
57 -? TSO DSNAME RCRIS.DUMP1.FOCTEMP
59 TSO DELETE RCRIS.DUMP1.FOCTEMP
63 TSO FREE ATTRLIST(R393)
64 TSO ATTRIB R393 LRECL(393) BLKSIZE(23187) RECFM(F B) DSORG(PS)
65 TSO ALLOC DD(DUMP1) DS(RCRIS.DUMP1.FOCTEMP) SP(10,10) TR NEW US(R393) -
67 TSO FREE ATTRLIST(R393)

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```

136 -? TSO DSNNAME RCRIS.UTLDOPTB.DATA
154 -? TSO DDNAME DUMP1
156 TSO FREE DDNAME(DUMP1)
157 TSO DELETE RCRIS.DUMP1.FOCTEMP

```

DBHNDL2 ----- STRING(S) FOUND -----

```

13 TSO FREE DDNAME(DUMP1)
16 -? TSO DSNNAME RCRIS.DUMP1.FOCTEMP
18 TSO DELETE RCRIS.DUMP1.FOCTEMP
22 TSO FREE ATTRLIST(R386)
23 TSO ATTRIB R386 LRECL(386) BLKSIZE(3860) RECFM(F B) DSORG(PS)
24 TSO ALLOC DD(DUMP1) DS(RCRIS.DUMP1.FOCTEMP) SP(10,10) TR NEW US(R386) -
26 TSO FREE ATTRLIST(R386)
156 -? TSO DSNNAME RCRIS.UTLDOPTB.DATA
168 -? TSO DDNAME DUMP1
170 TSO FREE DDNAME(DUMP1)
171 TSO DELETE RCRIS.DUMP1.FOCTEMP

```

DBHMAIN ----- STRING(S) FOUND -----

```

56 TSO ALLOC DDNAME(UPOTABFT) UNIT(&&TWKPACK) SPACE(10,10) -
222 -? TSO DSNNAME RCRIS.UNIVPASS.DATA
225 TSO DELETE RCRIS.UNIVPASS.DATA
231 -? TSO DSNNAME '&FIID'
233 TSO FREE ATTRLIST(R80)
234 TSO ATTRIB R80 LRECL(80) BLKSIZE(23440) RECFM(F B) DSORG(PS)
235 TSO ALLOC DD(UCALC) DS('&FIID') -
237 TSO FREE ATTRLIST(R80)
244 TSO ALLOC DDNAME(UCALC) DSNNAME('&FIID') SHR
248 TSO FREE ATTRLIST(R14)
249 TSO ATTRIB R14 LRECL(14) BLKSIZE(23464) RECFM(F B) DSORG(PS)
250 TSO ALLOC DD(UNIVPASS) DS(RCRIS.UNIVPASS.DATA) SP(5,5) TR NEW CAT -
252 TSO FREE ATTRLIST(R14)
257 TSO ALLOC DDNAME(UCALC) DSNNAME('&FIID') SHR REUSE
258 TSO ALLOC DDNAME(UNIVPASS) DSNNAME(RCRIS.UNIVPASS.DATA) MOD REU -
266 -? TSO DSNNAME RCRIS.UNIVPASS.DATA
305 TSO DELETE RCRIS.UNIVPASS.DATA
412 TSO ISPSTART CMD(DBAREBLD &&DBPROG &&PROG &&TEST &&DVLP &&DTP)
450 TSO ALLOC DDNAME(PERMERR) DSNNAME(RCRIS.PERMERR.DATA) SHR REUSE
473 TSO ALLOC DDNAME(PERMERR) DSNNAME(RCRIS.PERMERR.DATA) SHR REUSE
492 TSO ALLOC DDNAME(CMERR) DSNNAME(RCRIS.CMERR.DATA) SHR REUSE
508 TSO ALLOC DDNAME(CMERR) DSNNAME(RCRIS.CMERR.DATA) SHR REUSE
524 TSO ALLOC DDNAME(CMERR) DSNNAME(RCRIS.CMERR.DATA) SHR REUSE
599 -? TSO DDNAME UPOTABFT

```

DBHMAIX ----- STRING(S) FOUND -----

```

10 TSO ALLOC F(IDHOLD) DA(IDHOLD.FOCTEMP) SHR
1417 TSO FREE DDNAME(PERMERR)
1418 TSO ALLOC DDNAME(PERMERR) DSNNAME('CMPX.RCRIS.PERMERR.DATA') SHR
1420 TSO FREE DDNAME(PERMERR)
1428 TSO FREE DDNAME(PERMERR)
1429 TSO ALLOC DDNAME(PERMERR) DSNNAME('CMPX.RCRIS.PERMERR.DATA') SHR
1431 TSO FREE DDNAME(PERMERR)

```

DBRPDEV ----- STRING(S) FOUND -----

```

55 TSO FREE DDNAME(&RPDBDD)
56 TSO ALLOC DDNAME(&RPDBDD) DSNNAME(FOCUS.OFFLINE2) MOD UNIT(&&TWKPACK)
71 TSO FREE DDNAME(&RPDBDD)
72 TSO ALLOC DDNAME(&RPDBDD) DSNNAME(*)

```

```

DBUPSTD5 ----- STRING(S) FOUND -----
119 TSO FREE DD(MTEMP1)
149 TSO FREE DD(MTEMP2)
180 TSO FREE DD(MTEMP3)

DETHAND ----- STRING(S) FOUND -----
57 TSO FREE DDNAME(EVLAST)
58 TSO ALLOC DDNAME(EVLAST) DSNAME(RCRIS.EVLAST.FOCTEMP) SHR
92 TSO FREE DDNAME(PELAST)
93 TSO ALLOC DDNAME(PELAST) DSNAME(RCRIS.PELAST.FOCTEMP) SHR

DEVICE ----- STRING(S) FOUND -----
55 TSO FREE DDNAME(&RPDD)
56 TSO ALLOC DDNAME(&RPDD) DSNAME(FOCUS.OFFLINE2) MOD UNIT(&TWKPACK)
71 TSO FREE DDNAME(&RPDD)
72 TSO ALLOC DDNAME(&RPDD) DSNAME(*)

FCLDASC1 ----- STRING(S) FOUND -----
53 -? TSO DSNAME RCRIS.&FQUAL.DATA
62 TSO FREE DDNAME(FMP)
63 TSO ALLOC DDNAME(FMP) DSNAME(RCRIS.&FQUAL...DATA) SHR

FCLDASC3 ----- STRING(S) FOUND -----
13 TSO FREE DDNAME(FCPARN)
14 TSO ALLOC DDNAME(FCPARN) DSNAME(RCRIS.FCPARN.DATA) SHR

FCNMAIN ----- STRING(S) FOUND -----
98 TSO FREE DDNAME(FCPARN)

FILPRINT ----- STRING(S) FOUND -----
55 TSO FREE DDNAME(&PRINTDD)
56 TSO ALLOC DDNAME(&PRINTDD) DSNAME(FOCUS.OFFLINE2) MOD -
72 TSO FREE DDNAME(&PRINTDD)
73 TSO ALLOC DDNAME(&PRINTDD) DSNAME(*)

FIMUBAT ----- STRING(S) FOUND -----
244 -? TSO DDNAME HANDLER1
323 -? TSO DDNAME FOCEXEC
326 -? TSO DDNAME MASTER
338 -? TSO DDNAME OFFLINE
377 -? TSO DDNAME FIRPTMP
381 TSO FREE DD(FIRPTMP)
389 TSO ALLOC DD(FIRPTMP) NEW CAT DELETE -
398 -? TSO DDNAME FIRPTMP
537 TSO SUBMIT '&DSNAME'

FIMUOBAT ----- STRING(S) FOUND -----
129 -? TSO DDNAME HANDLER1
135 -? TSO DDNAME OFFLINE
147 -? TSO DDNAME FOCEXEC
161 -? TSO DDNAME FIRPO
163 TSO FREE DD(FIRPO)
165 TSO ALLOC DD(FIRPO) NEW CAT DELETE -
169 -? TSO DDNAME FIRPO
221 TSO SUBMIT '&DSNAME'

```

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FMMMAIN

----- STRING(S) FOUND -----

```
130 -? TSO DSNAMES LOADUPD.FOCTEMP
157 TSO ALLOC DDNAME(HOLDCHID) UNIT(&&TWKPACK) SPACE(1) TRACK -
167 TSO ALLOC DDNAME(UPDTABFT) UNIT(&&TWKPACK) SPACE(10,10) -
179 -? TSO DDNAME UPDTABFT
```

FMPCOMP

----- STRING(S) FOUND -----

```
19 TSO FREE ATTRLIST(REC8 REC16 REC72)
21 TSO ATTRIB REC8 BLKSIZE(96) LRECL(8) DSORG(PS) RECFM(F B)
23 TSO ATTRIB REC16 BLKSIZE(192) LRECL(16) DSORG(PS) RECFM(F B)
25 TSO ATTRIB REC72 BLKSIZE(864) LRECL(72) DSORG(PS) RECFM(F B)
27 TSO FREE DD(NARREXIT)
29 TSO FREE DD(FCPARM)
31 TSO FREE DD(FMP)
33 TSO DELETE RCRIS.NARREXIT.DATA
35 TSO DELETE RCRIS.FCPARM.DATA
37 TSO DELETE RCRIS.FMP.DATA
39 TSO ALLOC F(NARREXIT) DA(RCRIS.NARREXIT.DATA) NEW US(REC8) SP(1,1) TR -
42 TSO ALLOC F(FCPARM) DA(RCRIS.FCPARM.DATA) NEW US(REC16) SP(1,1) TR -
45 TSO ALLOC F(FMP) DA(RCRIS.FMP.DATA) NEW US(REC72) SP(1,1) TR UNIT(&&TPMPACK)
97 TSO FREE DDNAME(FMP)
98 TSO ALLOC DDNAME(FMP) DUMMY
100 TSO FREE DDNAME(FMP)
121 TSO FREE DDNAME(FCPARM FMP)
```

FRONTEND

----- STRING(S) FOUND -----

```
46 TSO FREE DDNAME(STREGVER)
```

FRONTEND

----- STRING(S) FOUND -----

```
24 TSO FREE DDNAME(STREGVER)
```

GLOBAL

----- STRING(S) FOUND -----

```
1 -? TSO DDNAME MASTER
```

HANDCOMP

----- STRING(S) FOUND -----

```
92 TSO FREE DDNAME(UNIVPASS)
93 TSO ALLOC DDNAME(UNIVPASS) DUMMY
94 TSO FREE DDNAME(UCALC)
95 TSO ALLOC DDNAME(UCALC) DUMMY
110 TSO FREE DDNAME(UNIVPASS)
```

HFDEFCLR

----- STRING(S) FOUND -----

```
13 TSO FREE DDNAME(CHANG UTLDUPTB)
16 TSO DELETE RCRIS.CHANGE.DATA
17 TSO DELETE RCRIS.UTLDUPTB.DATA
```

HFILEDEF

----- STRING(S) FOUND -----

```
15 TSO FREE DDNAME(CHANG UTLDUPTB)
20 TSO FREE ATTRLIST(REC80 REC23)
21 TSO ATTRIB REC23 LRECL(23) BLKSIZE(4600) RECFM(F B) DSORG(PS)
22 TSO ATTRIB REC80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
23 TSO ALLOC DD(CHANG) DS(RCRIS.CHANGE.DATA) SP(5,5) TR NEW CAT -
25 TSO ALLOC DD(UTLDUPTB) DS(RCRIS.UTLDUPTB.DATA) SP(10,10) TR NEW -
27 TSO FREE ATTRLIST(REC80 REC23)
33 TSO ALLOC DD(CHANG) DS(RCRIS.CHANGE.DATA) OLD REUSE
34 TSO ALLOC DD(UTLDUPTB) DS(RCRIS.UTLDUPTB.DATA) OLD REUSE
```

```

HIRPACK      ----- STRING(S) FOUND -----
      324 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPACKF     ----- STRING(S) FOUND -----

```

```

      86 TSO FREE F(HOLDIDS)
      88 TSO ALLOC F(HOLDIDS)
      91 TSO ISPSTART CMD(XDSCHECK HIRPACKF &FILENAME)
     138 TSO ALLOC F(ACKFIDS) DA(&FILENAME) SHR REUSE
     140 -? TSO DDNAME ACKFIDS
     147 TSO FREE F(DDFILEIN)
     149 TSO FREE F(ACKFIDS)
     151 TSO ALLOC F(ACKFIDS)DS(&FILENAME) -
     207 TSO FREE F(HOLDIDS)
     208 TSO FREE F(ACKFIDS)

```

```

HIRPACT      ----- STRING(S) FOUND -----

```

```

      38 TSO ALLOC DD(HOLDACT) SPACE(20,10) CYL REUSE
     267 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPCALC     ----- STRING(S) FOUND -----

```

```

     351 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPDEV      ----- STRING(S) FOUND -----

```

```

      61 TSO FREE DDNAME(&RPHIDD)
      62 TSO ALLOC DDNAME(&RPHIDD) DSNAME(FOCUS.OFFLINE2) MOD UNIT(&&TWKPACK)
      77 TSO FREE DDNAME(&RPHIDD)
      78 TSO ALLOC DDNAME(&RPHIDD) DSNAME(*)

```

```

HIRPD001     ----- STRING(S) FOUND -----

```

```

     255 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPD002     ----- STRING(S) FOUND -----

```

```

      34 TSO ALLOC F(HID002) SP(20,20) CYL
     247 TSO FREE F(HID002)
     252 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPD003     ----- STRING(S) FOUND -----

```

```

      38 TSO ALLOC F(HID003) SP(20,20) CYL
     249 TSO FREE F(HID003)
     254 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPD004     ----- STRING(S) FOUND -----

```

```

      38 TSO ALLOC F(HID004) SP(20,20) CYL
     244 TSO FREE F(HID004)
     249 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```

```

HIRPD005     ----- STRING(S) FOUND -----

```

```

      37 TSO ALLOC F(HID005) SP(20,20) CYL
     243 TSO FREE F(HID005)
     248 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

```


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```
HIRPD006      ----- STRING(S) FOUND -----
    48 TSO ALLOC F(HID006) SP(20,20) CYL
    349 TSO FREE F(HID006)
    354 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPD007      ----- STRING(S) FOUND -----
    41 TSO ALLOC F(HID007) SP(20,20) CYL
    335 TSO FREE F(HID007)
    340 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPD008      ----- STRING(S) FOUND -----
    45 TSO ALLOC F(HID008) SP(20,20) CYL
    275 TSO FREE F(HID008)
    280 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPD009      ----- STRING(S) FOUND -----
    243 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPLAB      ----- STRING(S) FOUND -----
    371 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPLET      ----- STRING(S) FOUND -----
    113 TSO FREE DDNAME(TEXTFILE)
    114 TSO FREE DSNAME(%TEXTFILE)
    269 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -
HIRPSEL1      ----- STRING(S) FOUND -----
    259 TSO ISPSTART CMD(%DSCHECK HIRPSEL1 %FILENAME)
    264 -? TSO DDNAME DDFILEIN
HIRPSEL3      ----- STRING(S) FOUND -----
    305 TSO ISPSTART CMD(%DSCHECK HIRPSEL3 %FILENAME)
    307 -? TSO DDNAME DDFILEIN
HIRPSEL4      ----- STRING(S) FOUND -----
    217 TSO ISPSTART CMD(%DDDEARCH HIRPSEL4 %TEXTFILE)
    219 TSO ISPSTART CMD(%DSCHECK HIRPSEL4 %TEXTFILE)
    221 -? TSO DDNAME TEXTFILE
    357 TSO ISPSTART CMD(%DDDEARCH HIRPSEL4 %TEXTFILE)
    359 -? TSO DSNAME TEXTFILE.DATA
    361 TSO FREE DDNAME(T1)
    363 TSO ALLOC F(T1) DA(TEXTFILE.DATA) OLD REUSE
    367 TSO FREE DDNAME(T1)
    368 TSO ALLOC F(T1)DS(TEXTFILE.DATA)LREC(57)BLK(570)RECF(F B) NEW CAT UNI(%&TWKPACK)
    379 TSO ISPSTART CMD(%DDDEARCH HIRPSEL4 %TEXTFILE)
    381 -? TSO DSNAME TEXTSAVE.DATA
    383 TSO FREE DDNAME(T1)
    385 TSO ALLOC F(T1) DA(TEXTSAVE.DATA) OLD REUSE
    389 TSO FREE DDNAME(T1)
    391 TSO ALLOC F(T1)DS(TEXTSAVE.DATA)LREC(57)BLK(570)RECF(F B) NEW CAT UNI(%&TWKPACK)
    441 TSO FREE DDNAME(TEXTFILE)
    443 TSO FREE DA(%TEXTFILE)
    468 TSO FREE DDNAME(T1)
```

```

HIRPSEL5 ----- STRING(S) FOUND -----
305 TSO ISPSTART CMD(XDSCHECK HIRPSEL5 &FILENAME)
307 -? TSO DDNAME DDFILEIN

HIRPTSDU ----- STRING(S) FOUND -----
217 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

HIRPUNIV ----- STRING(S) FOUND -----
213 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

IOREXTRT ----- STRING(S) FOUND -----
13 -? TSO DSNNAME '&FILENAME'
16 TSO ALLOC FI(OUTPUT) DSN('&FILENAME') -
25 TSO ALLOC FI(OUTPUT) DSN('&FILENAME') OLD REUSE

IORLOAD ----- STRING(S) FOUND -----
32 -? TSO DSNNAME &NAME
51 TSO ALLOC FI(INPUT) DSN(&NAME) SHR REU

IORRP ----- STRING(S) FOUND -----
30 TSO FREE FI(OFFLINE)
31 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFDUMB) OLD
40 TSO FREE FI(OFFLINE)
41 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD

ISUPCARB ----- STRING(S) FOUND -----
8 -? TSO DDNAME CAAREA
9 TSO FREE DD(CAAREA)
10 TSO ALLOC DD(CAAREAA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(CAAREAA)
18 TSO ALLOC DD(CAAREA) DS('&DSNAME') SHR REUSE

ISUPCIRB ----- STRING(S) FOUND -----
8 -? TSO DDNAME CAINST
9 TSO FREE DD(CAINST)
10 TSO ALLOC DD(CAINSTA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(CAINSTA)
18 TSO ALLOC DD(CAINST) DS('&DSNAME') SHR REUSE

ISUPCNRB ----- STRING(S) FOUND -----
8 -? TSO DDNAME CACONST
9 TSO FREE DD(CACONST)
10 TSO ALLOC DD(CACONSTA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(CACONSTA)
18 TSO ALLOC DD(CACONST) DS('&DSNAME') SHR REUSE

ISUPCTRB ----- STRING(S) FOUND -----
8 -? TSO DDNAME CETICK
9 TSO FREE DD(CETICK)
10 TSO ALLOC DD(CETICKA) DS('&DSNAME') SHR REUSE
36 TSO FREE DD(CETICKA)
37 TSO ALLOC DD(CETICK) DS('&DSNAME') SHR REUSE

```

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ISUPCVRB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME CEVIOL
9  TSO FREE DD(CEVIOL)
10 TSO ALLOC DD(CEVIOLA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(CEVIOLA)
18 TSO ALLOC DD(CEVIOL) DS('&DSNAME') SHR REUSE
```

ISUPELRB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME CEEVAL
9  TSO FREE DD(CEEVAL)
10 TSO ALLOC DD(CEEVALA) DS('&DSNAME') SHR REUSE
30 TSO FREE DD(CEEVALA)
31 TSO ALLOC DD(CEEVAL) DS('&DSNAME') SHR REUSE
```

ISUPENRB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME CEENFOR
9  TSO FREE DD(CEENFOR)
10 TSO ALLOC DD(CEENFORA) DS('&DSNAME') SHR REUSE
30 TSO FREE DD(CEENFORA)
31 TSO ALLOC DD(CEENFOR) DS('&DSNAME') SHR REUSE
```

ISUPEVRB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME EVENT
9  TSO FREE DD(EVENT)
10 TSO ALLOC DD(EVENTA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(EVENTA)
18 TSO ALLOC DD(EVENT) DS('&DSNAME') SHR REUSE
```

ISUPHCTY ----- STRING(S) FOUND -----

```
19 TSO ALLOC F(&NAME) DA('RCRS.RCRIS.&NAME1') SHR
62 TSO FREE DA('RCRS.RCRIS.STATECO2.DATA')
64 TSO FREE DA('RCRS.RCRIS.STATECO2.DATA')
66 TSO FREE DA('RCRS.RCRIS.STATECO3.DATA')
```

ISUPH1RB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME HANDLER1
9  TSO FREE DD(HANDLER1)
10 TSO ALLOC DD(HANDLR1A) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(HANDLR1A)
18 TSO ALLOC DD(HANDLER1) DS('&DSNAME') SHR REUSE
```

ISUPH2RB ----- STRING(S) FOUND -----

```
8  -? TSO DDNAME HANDLER2
9  TSO FREE DD(HANDLER2)
10 TSO ALLOC DD(HANDLR2A) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(HANDLR2A)
18 TSO ALLOC DD(HANDLER2) DS('&DSNAME') SHR REUSE
```

ISUPINST ----- STRING(S) FOUND -----

```
19 -? TSO DDNAME EVENT
22 TSO COPY '&DSNAME' -
84 -? TSO DDNAME CAINST
87 TSO COPY '&DSNAME' -
123 TSO FREE DDNAME(HLIPRINT)
```

ISUPMOUT ----- STRING(S) FOUND -----

```

7  -? TSO DDNAME MOUTABLE
8  TSO FREE DD(MOUTABLE)
9  TSO ALLOC DD(OLDMOUT) DS('&DSNAME')
16 TSO FREE DD(OLDMOUT)
17 TSO ALLOC DD(MOUTABLE) DS('&DSNAME')

```

ISUPMNRB ----- STRING(S) FOUND -----

```

8  -? TSO DDNAME PMCOMMIT
9  TSO FREE DD(PMCOMMIT)
10 TSO ALLOC DD(PMCOMMITA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(PMCOMMITA)
18 TSO ALLOC DD(PMCOMMIT) DS('&DSNAME') SHR REUSE

```

ISUPPURB ----- STRING(S) FOUND -----

```

8  -? TSO DDNAME PUNIT
9  TSO FREE DD(PUNIT)
10 TSO ALLOC DD(PUNITA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(PUNITA)
18 TSO ALLOC DD(PUNIT) DS('&DSNAME') SHR REUSE

```

ISUPPVRB ----- STRING(S) FOUND -----

```

8  -? TSO DDNAME PEVENT
9  TSO FREE DD(PEVENT)
10 TSO ALLOC DD(PEVENTA) DS('&DSNAME') SHR REUSE
17 TSO FREE DD(PEVENTA)
18 TSO ALLOC DD(PEVENT) DS('&DSNAME') SHR REUSE

```

ISUPP205 ----- STRING(S) FOUND -----

```

46 -? TSO DDNAME PEVENT
50 TSO FREE DD(PEVENT)
52 TSO COPY '&DSNAME' '&NEWDSN' NOMUM
53 TSO FREE DS('&DSNAME' '&NEWDSN')
55 TSO ALLOC DD(PEVENT) DSN('&DSNAME') SHR
266 -TSO RUN 'ISPLINK,SELECT,&COMLEN,&COMMAND

```

ISUPP302 ----- STRING(S) FOUND -----

```

39 -? TSO DDNAME PEVENT
43 TSO COPY '&DSNAME' -
45 TSO ALLOC DD(PEVENTA) DS('&OLDFILE1') SHR REU
48 -? TSO DDNAME PMCOMMIT
52 TSO COPY '&DSNAME' -
54 TSO ALLOC DD(PMCOMMITA) DS('&OLDFILE2') SHR REU
244 TSO FREE DD(PEVENTA PMCOMMITA)

```

ISUPREDO ----- STRING(S) FOUND -----

```

22 -? TSO DDNAME SECURITY
23 TSO FREE DD(SEcurity)
24 TSO ALLOC DD(SECUOLD) DS('&DSNAME')
34 TSO FREE DD(SECUOLD)
35 TSO ALLOC DD(SEcurity) DS('&DSNAME')

```

ISUPSTAR ----- STRING(S) FOUND -----

```

7  -? TSO DDNAME MOUTABLE
9  TSO COPY 'RCRS.RCRIS.PCRPSP92.DATA' -
11 TSO FREE DS('RCRS.RCRIS.PCRPSP92.DATA' -

```

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ISUPV200

----- STRING(S) FOUND -----

4 TSO CLR3270
7 TSO CLR3270
10 TSO CLR3270
13 TSO CLR3270
16 TSO CLR3270
19 TSO CLR3270
22 TSO CLR3270
25 TSO CLR3270
28 TSO CLR3270

ISUPV211

----- STRING(S) FOUND -----

4 TSO CLR3270

ISU2P205

----- STRING(S) FOUND -----

46 -? TSO DDNAME PEVENT
50 TSO FREE DD(PEVENT)
52 TSO COPY '&DSNAME' '&NEWDSN' NONUM
53 TSO FREE DS('&DSNAME' '&NEWDSN')
55 TSO ALLOC DD(PEVENT) DSN('&DSNAME') SHR

LOADCME

----- STRING(S) FOUND -----

182 TSO FREE DDNAME(CHANGEN)
183 TSO FREE ATTRLIST(REC75)
184 TSO DELETE CHANGEN.DATA
185 TSO ATTR REC75 BLKSIZE(1500) LRECL(75) DSORG(PS) RECFM(F B)
186 TSO ALLOC F(CHANGEN) DA(CHANGEN.DATA) US(REC75) SP(5,5) TR
187 TSO FREE F(CHANGEN)
188 TSO ALLOC F(CHANGEN) DA(CHANGEN.DATA) MOD
194 TSO FREE F(CHANGEEV)
195 TSO DELETE CHANGEEV.DATA
196 TSO FREE ATTRLIST(REC132)
197 TSO ATTR REC132 BLKSIZE(2640) LRECL(132) DSORG(PS) RECFM(F B)
198 TSO ALLOC F(CHANGEEV) DA(CHANGEEV.DATA) US(REC132) NEW SP(5,5) TRACKS
199 TSO FREE F(CHANGEEV)
200 TSO ALLOC F(CHANGEEV) DA(CHANGEEV.DATA) MOD

LOADIT

----- STRING(S) FOUND -----

5 TSO ALLOC DDNAME(LOAD) DSNNAME(RCRIS.AREADES.FOCTEMP) SHR
17 TSO FREE DDNAME(LOAD)

MRADCTR

----- STRING(S) FOUND -----

6 TSO ALLOC F(CONTROLF) DA(CONTROLF.MDB) OLD

MRCRMOU

----- STRING(S) FOUND -----

36 -? TSO DSNNAME '&FILENAME'
54 TSO ALLOC FI(INPUT) DSN('&FILENAME') SHR REUSE
77 TSO ALLOC FI(INPUT) DSN('&FILENAME') SHR REUSE
143 TSO FREE FI(INPUT)

MREDALLC

----- STRING(S) FOUND -----

51 TSO ALLOC DD(EDTERRS) DS(DUMMY1) SP(20,30) CYL MOD REUSE DEL -
60 TSO FREE FI(EDTERRS)

MREDEPAE ----- STRING(S) FOUND -----

16 TSO ALLOC FI(DUMP) SP(20,20) TRK NEW DEL UNIT(&TWKPACK)
35 TSO FREE FI(DUMP)

MREDPROG ----- STRING(S) FOUND -----

112 TSO ISPSTART CMD(%BATCHRP1 MREDPROG &ZDBPROG MREDPROG -
2469 TSO ALLOC FI(OUT) DSN(B) USING(K32) NEW DEL REU UNIT(&TWKPACK)
2681 TSO FREE FI(EDTERROR)

MREDTSO1 ----- STRING(S) FOUND -----

2 -? TSO DSNNAME &FNAME

MRLDIOR ----- STRING(S) FOUND -----

19 TSO FREE FI(OFFLINE)
21 TSO ALLOC FI(OFFLINE) DUMMY OLD SPACE(1 1) TRACKS LRECL(133) RECFM(F B)
31 TSO FREE FI(OFFLINE)
33 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD
46 TSO FREE FI(OFFLINE)
48 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD
54 TSO FREE FI(OFFLINE)
56 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD

MRMUCF ----- STRING(S) FOUND -----

41 -? TSO DSNNAME '&FILENAME'
48 -? TSO DSNNAME '&FILENAME'
109 TSO ALLOC FI(CONTROL) DSN('&FILENAME') OLD REUSE
129 TSO FREE FI(CONTROL)
130 TSO ALLOC FI(CONTROL) NEW DEL UNIT(&TWKPACK)
131 TSO ALLOC FI(INPUT) DSN('&FILENAME') SHR REUSE
142 TSO FREE FI(INPUT)
154 TSO ALLOC FI(OUTPUT) DSN('&FILENAME') OLD REUSE
163 TSO FREE FI(OUTPUT)
170 TSO FREE FI(OUTPUT)
183 TSO ALLOC FI(CONTROL) DSN('&FILENAME') SHR REUSE
202 TSO FREE FI(CONTROL)
203 TSO ALLOC FI(CONTROL) NEW DEL UNIT(&TWKPACK)
204 TSO ALLOC FI(INPUT) DSN('&FILENAME') SHR REUSE
215 TSO FREE FI(INPUT)
227 TSO FREE FI(CONTROL)

MRMUMAIN ----- STRING(S) FOUND -----

47 TSO FREE DD(ORIGIN)
132 TSO ISPSTART CMD(%MREXTRA2 RCRIS &ZDBPROG &EXT_TYPE)
139 TSO ISPSTART CMD(%MRUPDAT2 RCRIS &ZDBPROG)

MRREBILD ----- STRING(S) FOUND -----

32 -? TSO DDNAME &FILE

MRRPALD ----- STRING(S) FOUND -----

48 TSO FREE FI(OFFLINE)
49 TSO ALLOC FI(OFFLINE) DUMMY OLD SPACE(1 1) TRACKS LRECL(133) RECFM(F B)
65 TSO FREE FI(OFFLINE)
66 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD

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```
MRRPCF ----- STRING(S) FOUND -----
130 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

MRRPDEV ----- STRING(S) FOUND -----
95 TSO ALLOC F(OFFLINE) DA(%FILEOUT) OLD
104 TSO ALLOC F(OFFLINE) PRINTER
110 TSO ALLOC F(SYSPRINT) DD(*)

MRRPDEV2 ----- STRING(S) FOUND -----
52 TSO FREE DD(PRNTQUED)

MRRPEDDT ----- STRING(S) FOUND -----
54 -? TSO DSNAMES (%FILE2)
61 TSO ISPSTART CMD(MRRPRCAL %FILEX)
63 -? TSO DSNAMES (%FILEX)
78 TSO FREE DD(EDVAR)
85 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -

MRRPEDSU ----- STRING(S) FOUND -----
50 -? TSO DSNAMES (%FILE2)
58 TSO ISPSTART CMD(MRRPRCAL %FILEX)
60 -? TSO DSNAMES (%FILEX)
70 TSO FREE DD(EDVAR)
77 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -
129 TSO FREE DD(EDTERRO2)

MRRPFFH4 ----- STRING(S) FOUND -----
29 -? TSO DSNAMES ADDDELH4.FOCTEMP
61 TSO FREE F(ADDELH4)
62 TSO FREE F(%FILE_PREF)

MRRPFFP4 ----- STRING(S) FOUND -----
38 TSO FREE F(%FILE_PREF)

MRRPHARD ----- STRING(S) FOUND -----
65 TSO ISPSTART CMD(MRRPRCAL %HXFILE2)
67 -? TSO DSNAMES (%HXFILE2)
73 TSO FREE DD(MRRPFIL2)
74 TSO COPY (%HXFILE2) HCR.TEMP NONUM LRECL(133) BLOCK(3990) RECFM(F)
75 TSO FREE DS(%HXFILE2)
76 TSO FREE DS(HCR.TEMP)
77 TSO ALLOC DD(MRRPFIL2) DSNAMES(HCR.TEMP) SHR
95 -? TSO DSNAMES OFFLINE
97 TSO FREE DD(MRRPFIL2 OFFLINE)
99 -? TSO DSNAMES RCRIS.MRRPHARD
101 TSO DELETE RCRIS.MRRPHARD
103 TSO RENAME (%DSNAME) RCRIS.MRRPHARD
104 TSO RENAME HCR.TEMP (%DSNAME)
106 TSO ALLOC DD(OFFLINE) DS(%DSNAME) OLD REUSE
109 -? TSO DSNAMES OFFLINE
110 TSO FREE DD(OFFLINE)
111 TSO RENAME (%DSNAME) HCR.TEMP
112 TSO RENAME RCRIS.MRRPHARD (%DSNAME)
113 TSO ALLOC DD(OFFLINE) DS(%DSNAME) OLD REUSE
116 TSO DELETE HCR.TEMP
117 TSO FREE DD(MRRPFIL2)
```

MRRPHDEL ----- STRING(S) FOUND -----

40 TSO ISPSTART CMD(MRRPRCAL &FILE2)
 42 -? TSO DSNAME '&FILE2'
 48 TSO ALLOC DD(MRRPFILE) DS('&FILE2') SHR
 83 TSO FREE DD(MRRPFILE)

MRRPIOR ----- STRING(S) FOUND -----

38 TSO FREE FI(OFFLINE)
 39 TSO ALLOC FI(OFFLINE) DUMMY SPACE(1 1) RECFM(F B) TRACKS NEW -
 49 TSO FREE FI(OFFLINE)
 50 TSO ALLOC FI(OFFLINE) DA(FOCUS.OFFLINE) OLD

MRRPIMOU ----- STRING(S) FOUND -----

51 -? TSO DSNAME '&FILENAME'
 53 TSO ALLOC FI(&NAME) DSN('&FILENAME') -
 62 TSO ALLOC FI(&NAME) DSN('&FILENAME') OLD REUSE
 94 TSO FREE FI(&NAME)

MRRPIORF ----- STRING(S) FOUND -----

46 -? TSO DSNAME '&IFFILE2'
 52 TSO FREE DD(MRRPFILE)
 53 TSO ALLOC DD(MRRPFILE) DSNAME('&IFFILE2') SHR
 85 TSO FREE DD(MRRPFILE)

MRRPLOGE ----- STRING(S) FOUND -----

63 TSO ISPSTART CMD(MRRPRCAL &LEFILE2)
 65 -? TSO DSNAME '&LEFILE2'
 71 TSO FREE DD(MRRPFILE)
 72 TSO ALLOC DD(MRRPFILE) DSNAME('&LEFILE2') SHR
 103 TSO FREE DD(MRRPFILE)

MRRPORPH ----- STRING(S) FOUND -----

40 TSO ISPSTART CMD(MRRPRCAL &ORFILE2)
 42 -? TSO DSNAME '&ORFILE2'
 48 TSO FREE DD(MRRPFILE)
 49 TSO ALLOC DD(MRRPFILE) DSNAME('&ORFILE2') SHR
 78 TSO FREE DD(MRRPFILE)

MRRPPRSU ----- STRING(S) FOUND -----

48 -? TSO DSNAME '&FILE2'
 57 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -

MRRPUL01 ----- STRING(S) FOUND -----

193 -? TSO DSNAME '&NRFILE2'
 202 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -

MRRPUL02 ----- STRING(S) FOUND -----

121 -? TSO DSNAME '&ADFILE2'
 130 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -

MRRPUL03 ----- STRING(S) FOUND -----

129 -? TSO DSNAME '&XDFILE2'
 138 TSO ISPSTART CMD(%BATCHRP3 %PGMNAME %&DBPROG BATCHRP3 -

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MRRPULD4 ----- STRING(S) FOUND -----

```
454 TSO ISPSTART CMD(MRRPRCAL &EXFILE2)
456 -? TSO DSNAMES '&EXFILE2'
462 TSO FREE DD(MRRPFILE)
463 TSO ALLOC DD(MRRPFILE) DSNAMES('&EXFILE2') SHR
497 TSO FREE DD(MRRPFILE)
```

MRRPUPAC ----- STRING(S) FOUND -----

```
283 TSO ISPSTART CMD(MRRPRCAL &UPFILE2)
285 -? TSO DSNAMES '&UPFILE2'
291 TSO FREE DD(MRRPFILE)
292 TSO ALLOC DD(MRRPFILE) DSNAMES('&UPFILE2') SHR
323 TSO FREE DD(MRRPFILE)
```

MRRPUPAR ----- STRING(S) FOUND -----

```
14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(MRRPARUP) DA(MRRPARUP.WP) MOD UNIT(&&TWKPACK)
17 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
81 TSO FREE DD(&FILENAME)
82 TSO FREE DD(MRRPARUP)
```

MRRPUPCN ----- STRING(S) FOUND -----

```
14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPCNUP) DA(MRRPCNUP.WP) MOD UNIT(&&TWKPACK)
113 TSO FREE DD(MRRPCNUP)
114 TSO FREE DD(&FILENAME)
```

MRRPUPD ----- STRING(S) FOUND -----

```
12 TSO ALLOC F(MRRPDUP) DA(MRRPDUP.WP) OLD
```

MRRPUPDT ----- STRING(S) FOUND -----

```
45 TSO ISPSTART CMD(MRRPRCAL &FILE2)
47 -? TSO DSNAMES '&FILE2'
56 TSO ISPSTART CMD(XBATCHRP3 &PGMNAME &&DBPROG BATCHRP3 -
```

MRRPUPEL ----- STRING(S) FOUND -----

```
14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPELUP) DA(MRRPELUP.WP) MOD UNIT(&&TWKPACK)
160 TSO FREE DD(MRRPELUP)
161 TSO FREE DD(&FILENAME)
```

MRRPUPEN ----- STRING(S) FOUND -----

```
14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPENUP) DA(MRRPENUP.WP) MOD UNIT(&&TWKPACK)
178 TSO FREE DD(MRRPENUP)
179 TSO FREE DD(&FILENAME)
```

MRRPUPEV ----- STRING(S) FOUND -----

```
14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
```

```

17 TSO ALLOC F(MRRPEVUP) DA(MRRPEVUP.WP) MOD UNIT(&TWKPACK)
201 TSO FREE DD(&FILENAME)
202 TSO FREE DD(MRRPEVUP)

```

MRRPUPH1 ----- STRING(S) FOUND -----

```

15 -? TSO DSNAMES &TEMP
17 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
18 TSO ALLOC F(MRRPH1UP) DA(MRRPH1UP.WP) MOD UNIT(&TWKPACK)
85 TSO FREE DD(&FILENAME)
86 TSO FREE DD(MRRPH1UP)

```

MRRPUPH2 ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPH2UP) DA(MRRPH2UP.WP) MOD UNIT(&TWKPACK)
332 TSO FREE DD(&FILENAME)
333 TSO FREE DD(MRRPH2UP)

```

MRRPUPIN ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPINUP) DA(MRRPINUP.WP) MOD UNIT(&TWKPACK)
144 TSO FREE DD(MRRPINUP)
145 TSO FREE DD(&FILENAME)

```

MRRPUPNA ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPNAUP) DA(MRRPNAUP.WP) MOD UNIT(&TWKPACK)
56 TSO FREE DD(&FILENAME)
57 TSO FREE DD(MRRPNAUP)

```

MRRPUPPC ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPPCUP) DA(MRRPPCUP.WP) MOD UNIT(&TWKPACK)
132 TSO FREE DD(&FILENAME)
133 TSO FREE DD(MRRPPCUP)

```

MRRPUPPU ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPPUUP) DA(MRRPPUUP.WP) MOD UNIT(&TWKPACK)
47 TSO FREE DD(&FILENAME)
48 TSO FREE DD(MRRPPUUP)

```

MRRPUPPV ----- STRING(S) FOUND -----

```

14 -? TSO DSNAMES &TEMP
16 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD
17 TSO ALLOC F(MRRPPVUP) DA(MRRPPVUP.WP) MOD UNIT(&TWKPACK)
173 TSO FREE DD(&FILENAME)
174 TSO FREE DD(MRRPPVUP)

```

MRRPUPVI ----- STRING(S) FOUND -----

```

13 -? TSO DSNAMES &TEMP
15 TSO ALLOC F(&FILENAME) DA(&TEMP) OLD

```

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```

16 TSO ALLOC F(MRRPVIUP) DA(MRRPVIUP.WP) MOD UNIT(&&TWKPACK)
121 TSO FREE DD(&FILENAME)
122 TSO FREE DD(MRRPVIUP)

```

MRRPUTBL ----- STRING(S) FOUND -----

```

126 TSO ISPSTART CMD(MRRPRCAL &F1)
128 -? TSO DSNNAME '&F1'
130 TSO FREE DD(&FILE_NAME)
131 TSO ALLOC DD(&FILE_NAME) DSNNAME('&F1') SHR

```

MRUPIOR ----- STRING(S) FOUND -----

```

15 -? TSO DDNAME ISPTLIB

```

MRUPLMOU ----- STRING(S) FOUND -----

```

37 -? TSO DSNNAME '&FILENAME'
54 TSO ALLOC FI(INPUT) DSN('&FILENAME') SHR REUSE
125 TSO FREE FI(INPUT)

```

MZULRCRI ----- STRING(S) FOUND -----

```

373 -? TSO DDNAME MASTER
380 TSO DELETE '&ACC..&UPDT_NAME'
382 TSO COPY '&ACC..UPDTABLE.FOCUS' '&ACC..&UPDT_NAME' NONUM

```

NARRCOMP ----- STRING(S) FOUND -----

```

27 TSO ALLOC DDNAME(FCPARM) DSNNAME(RCRIS.FCPARM.DATA) SHR
28 TSO ALLOC DDNAME(NARREXIT) DSNNAME(RCRIS.NARREXIT.FOCTEMP) SHR
34 TSO ALLOC DDNAME(FMP) DSNNAME(RCRIS.FMP.DATA) SHR
44 TSO FREE DDNAME(FCPARM FMP)

```

NOACCESS ----- STRING(S) FOUND -----

```

35 TSO ALLOC F(SYSPRINT) DA(RCRIS.NULL) OLD

```

PCLDCOMP ----- STRING(S) FOUND -----

```

17 TSO ALLOC DD(HOLDPCID) DUMMY

```

PCLDFDEF ----- STRING(S) FOUND -----

```

14 TSO FREE ATTRLIST(REC14)
15 TSO FREE DDNAME(LOADUPD)
16 TSO DELETE RCRIS.LOADUPD.DATA
22 TSO ATTRIB REC14 LRECL(14) BLKSIZE(4242) RECFM(F B) DSORG(PS)
23 TSO ALLOC DD(LOADUPD) DSN(RCRIS.LOADUPD.DATA) SP(10,10) TR NEW CAT
25 TSO FREE ATTRLIST(REC14)
28 TSO ALLOC DD(LOADUPD) DSN(RCRIS.LOADUPD.DATA) OLD REUSE

```

PCMUDEVIC ----- STRING(S) FOUND -----

```

72 TSO FREE DDNAME(OFFLINE)
73 TSO ALLOC DDNAME(OFFLINE) DSNNAME(RCRIS.FOCUS.OFFLINE) MOD
80 TSO FREE DDNAME(OFFLINE)
81 TSO ALLOC DDNAME(OFFLINE) DSNNAME(RCRIS.FOCUS.OFFLINE) MOD
83 TSO COPY PERMIT OFFLINE
84 TSO FREE DDNAME(PERMIT) DELETE
120 -? TSO DSNNAME RCRIS.&OUTFILE
131 TSO FREE ATTRLIST(RC133)
132 TSO FREE DDNAME(OFFLINE)
133 TSO ATTRIB RC133 LRECL(133) BLKSIZE(3990) RECFM(F B A) DSORG(PS)

```

```

134 TSO ALLOC DD(OFFLINE) DS(RCRIS.&OUTFILE.DATA) -
136 TSO FREE ATTRLIST(RC133)
161 TSO FREE DDNAME(PERMIT) DELETE

PCRPCOMP ----- STRING(S) FOUND -----
326 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMDEV ----- STRING(S) FOUND -----
97 TSO FREE ATTRLIST(RC133)
98 TSO FREE DDNAME(OFFLINE)
99 TSO ATTRIB RC133 LRECL(133) BLKSIZE(3990) RECFM(F B A) DOSRG(PS)
100 TSO ALLOC DD(OFFLINE) DS(RCRIS.&FILEOUT.DATA) -
102 TSO FREE ATTRLIST(RC133)
110 TSO FREE DDNAME(OFFLINE)
111 TSO ALLOC DDNAME(OFFLINE) DDNAME(RCRIS.FOCUS.OFFLINE) MOD -

PCRPMMP1 ----- STRING(S) FOUND -----
190 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMMP2 ----- STRING(S) FOUND -----
161 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMGR1 ----- STRING(S) FOUND -----
228 TSO FREE DDNAME(PERMIT HOLD)

PCRPMGR2 ----- STRING(S) FOUND -----
260 TSO FREE DDNAME(PERMIT HOLD)

PCRPMILE ----- STRING(S) FOUND -----
270 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMRP1 ----- STRING(S) FOUND -----
108 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMRP2 ----- STRING(S) FOUND -----
113 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&FIL1 %&FIL1 -

PCRPMSELA ----- STRING(S) FOUND -----
191 TSO ISPSTART CMD(%&SCHECK HIRPSEL1 %&FILENAME)
193 -? TSO DDNAME DDFILEIN

PCRPMSPDR ----- STRING(S) FOUND -----
817 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&TEST %&DVLP -

PCRPMSPMS ----- STRING(S) FOUND -----
360 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&TEST %&DVLP -

PCRPMSTDR ----- STRING(S) FOUND -----
813 TSO ISPSTART CMD(%BATCHRP1 %PGMNAME %&DBPROG BATCHRP1 %&TEST %&DVLP -

```

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```
PCRPSTD2      ----- STRING(S) FOUND -----
72 TSO FREE DD(RC1A1)
73 TSO FREE DD(RC1A4A)
179 TSO FREE DD(RC1A1)
180 TSO FREE DD(RC1A4A)
217 TSO FREE DD(RC1A1)
218 TSO FREE DD(RC1A4A)

PCRP0001      ----- STRING(S) FOUND -----
431 TSO ISPSTART CMD(XBATCHRP1 &PGMNAME &&DBPROG BATCHRP1 &&FIL1 &&FIL1 -

PCULFDEF      ----- STRING(S) FOUND -----
17 TSO FREE DDNAME(LOADUPD)

PMCOMP        ----- STRING(S) FOUND -----
24 TSO FREE DDNAME(PASS ACTION)
25 TSO ALLOC DDNAME(PASS) DUMMY
26 TSO ALLOC DDNAME(ACTION) DUMMY
39 TSO FREE DDNAME(MERGED)
40 TSO ALLOC DDNAME(MERGED) DUMMY
47 TSO FREE DDNAME(PASS ACTION MERGED)

PMHLINKF      ----- STRING(S) FOUND -----
64 ? TSO DSNNAME &FILENAME
73 TSO FREE DDNAME(LOADFILE)
76 TSO ALLOC F(LOADFILE) DS(&FILENAME) SHR REUSE
131 TSO FREE DDNAME(LOADFILE)

PMHMAIN        ----- STRING(S) FOUND -----
90 -? TSO DDNAME MASTER
98 TSO ISPSTART CMD(XPMDEARCH)
101 TSO FREE ATTRLIST(R12)
102 TSO ATTRIB R12 LRECL(12) BLKSIZE(23472) RECFM(F B) DSORG(PS)
103 TSO ALLOC DD(ACTION) DS(RCRIS.ACTION.DATA) SP(10,10) TR NEW CAT -
105 TSO FREE ATTRLIST(R12)
110 TSO ALLOC DDNAME(ACTION) DSNNAME(RCRIS.ACTION.DATA) OLD REUSE
114 TSO FREE ATTRLIST(REC26)
115 TSO ATTRIB REC26 LRECL(26) BLKSIZE(23452) RECFM(F B) DSORG(PS)
116 TSO ALLOC DD(PASS) DSN(RCRIS.PASS.DATA) SP(10,10) TR NEW CAT -
118 TSO FREE ATTRLIST(REC26)
123 TSO ALLOC DDNAME(PASS) DSNNAME(RCRIS.PASS.DATA) OLD REUSE
159 TSO FREE DDNAME(ACTION PASS)
160 TSO DELETE RCRIS.ACTION.DATA
161 TSO DELETE RCRIS.PASS.DATA

PMHMAVJ        ----- STRING(S) FOUND -----
98 -? TSO DDNAME MASTER
106 TSO FREE ATTRLIST(R12)
107 TSO ATTRIB R12 LRECL(12) BLKSIZE(4236) RECFM(F B) DSORG(PS)
108 TSO ALLOC DD(ACTION) DS(RCRIS.ACTION.DATA) SP(10,10) TR NEW CAT -
110 TSO FREE ATTRLIST(R12)
115 TSO ALLOC DDNAME(ACTION) DSNNAME(RCRIS.ACTION.DATA) OLD REUSE
119 TSO FREE ATTRLIST(REC26)
120 TSO ATTRIB REC26 LRECL(26) BLKSIZE(2600) RECFM(F B) DSORG(PS)
121 TSO ALLOC DD(PASS) DSN(RCRIS.PASS.DATA) SP(10,10) TR NEW CAT -
123 TSO FREE ATTRLIST(REC26)
128 TSO ALLOC DDNAME(PASS) DSNNAME(RCRIS.PASS.DATA) OLD REUSE
```

```

145 TSO FREE DDNAME(PASS)
146 TSO ALLOC DDNAME(PASS) DSNAME(RCRIS.PASS.DATA) SHR
208 TSO FREE DDNAME(ACTION PASS)
209 TSO DELETE RCRIS.ACTION.DATA
210 TSO DELETE RCRIS.PASS.DATA

PMRPSL1 ----- STRING(S) FOUND -----
153 -? TSO DSNAME &FILENAME
155 TSO FREE DDNAME(DDFILEIN)
157 TSO ALLOC F(DDFILEIN) DA(&FILENAME) SHR REUSE

PMUPINRE ----- STRING(S) FOUND -----
46 ? TSO DSNAME &FILENAME
65 TSO ALLOC DDNAME(IMPOFILE) DSNAME(&FILENAME) SHR REUSE
66 TSO FREE ATTRLIST(R133)
67 TSO FREE DDNAME(NOREC ERREC FOREC)
69 TSO DELETE RCRIS.NOREC.DATA
70 TSO DELETE RCRIS.ERREC.DATA
71 TSO DELETE RCRIS.FOREC.DATA
73 TSO ATTRIB R133 LRECL(133) BLKSIZE(3990) RECFM(F B) DSORG(PS)
75 TSO ALLOC DD(NOREC) DS(RCRIS.NOREC.DATA) SP(20,5)TR NEW CAT REL -
77 TSO ALLOC DD(ERREC) DS(RCRIS.ERREC.DATA) SP(20,5)TR NEW CAT REL -
79 TSO ALLOC DD(FOREC) DS(RCRIS.FOREC.DATA) SP(20,5)TR NEW CAT REL -
82 TSO FREE ATTRLIST(R133)

PRINTFIL ----- STRING(S) FOUND -----
43 TSO &&PRINTCMD FOCUS.OFFLINE &BOX -
47 TSO ISPSTART CMD(%LONGDEST &DEST &BOX &COPIES)

PRINTOFF ----- STRING(S) FOUND -----
2 TSO FREE DD(OFFLINE)
3 TSO FREE ATTRLIST(AT1)
4 TSO ATTR AT1 BLKSIZE(3990) LRECL(133) DSORG(PS) RECFM(F B)
5 TSO &&PRINTCMD FOCUS.OFFLINE &BOX DEST(&DEST) CO(&COPIES) CLASS(&CL) ASA
6 TSO ALLOC DD(OFFLINE) DA(FOCUS.OFFLINE) UNIT(SYSDA) OLD
7 TSO FREE DD(OFFLINE) DELETE
8 TSO ALLOC DD(OFFLINE) DSN(FOCUS.OFFLINE) USING(AT1) NEW CATALOG -

PRNDEST1 ----- STRING(S) FOUND -----
84 TSO FREE DD(PRN2PRNT)
91 TSO FREE DD(PRN2FILE)

PRNDEST2 ----- STRING(S) FOUND -----
14 -? TSO DDNAME PRN2PRNT
16 -? TSO DDNAME PRN2FILE
19 TSO ISPSTART CMD(%PRNDEST &DEST)

PROFFREE ----- STRING(S) FOUND -----
9 TSO FREE DDNAME(AGNDES AREADES CAAREA CACONST CAINST CEENFOR)
10 TSO FREE DDNAME(CEEVAL CETICK CEVIOL COMMITMT CONSTCD CONTROL DEFAULTS)
11 TSO FREE DDNAME(EPATHRD EREADES ETEMLAT EVENT GENIND IORAUDIT)
12 TSO FREE DDNAME(HANDLER1 HANDLER2 IORTABLE MERGE MOUTABLE NAME OWNRTYPE)
13 TSO FREE DDNAME(PERMPROJ PERMTYPE PESTATUS PEVENT PHCOMMIT)
14 TSO FREE DDNAME(PROCCODE PUNIT RCRADDSC RCRAGDSC RCRATSTAT RCRATDSC)
15 TSO FREE DDNAME(REMEDYCD RTYPDES SECURITY STATELST)
16 TSO FREE DDNAME(SPECPROC SPECUOM SPEPCDE SUMMARY UOMTYPE)
17 TSO FREE DDNAME(UPDTABLE WASTECDE WUOMTYPE UCALC)

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```
PROFILSG ----- STRING(S) FOUND -----
    69 TSO FREE DD(OFFLINE)

PROFILSU ----- STRING(S) FOUND -----
    123 TSO FREE DD(OFFLINE)

PRORCRIS ----- STRING(S) FOUND -----
    61 -? TSO DSNAMES RCRIS.RCRISPAR.DATA
    72 TSO ALLOC FILE(RCRISPAR) DSNAMES(RCRIS.RCRISPAR.DATA) SHR REUSE

RCRA ----- STRING(S) FOUND -----
    88 TSO ALLOC DDNAME(HOLDPCID) UNIT(&&TWKPACK) SPACE(1) TRACK -
    265 -? TSO DSNAMES RCRIS.LOADUPD.DATA
    269 TSO DELETE RCRIS.LOADUPD.DATA
    421 -? TSO DSNAMES RCRIS.UNIVPASS.DATA
    424 TSO DELETE RCRIS.UNIVPASS.DATA
    428 TSO FREE ATTRLIST(R14)
    429 TSO ATTRIB R14 LRECL(14) BLKSIZE(23464) RECFM(F B) DSORG(PS)
    430 TSO ALLOC DD(UNIVPASS) DS(RCRIS.UNIVPASS.DATA) TR NEW CAT US(R14) -
    432 TSO FREE ATTRLIST(R14)
    438 TSO ALLOC DDNAME(UNIVPASS) DSNAMES(RCRIS.UNIVPASS.DATA) MOD REUSE -
    445 -? TSO DSNAMES '&FIID'
    447 TSO FREE ATTRLIST(R80)
    448 TSO ATTRIB R80 LRECL(80) BLKSIZE(23440) RECFM(F B) DSORG(PS)
    449 TSO ALLOC DD(UCALC) DS('&FIID') -
    451 TSO FREE ATTRLIST(R80)
    454 TSO ALLOC DDNAME(UCALC) DSNAMES('&FIID') SHR REUSE
    459 TSO ALLOC DDNAME(UCALC) DSNAMES('&FIID') SHR REUSE
    468 -? TSO DSNAMES RCRIS.UNIVPASS.DATA
    507 TSO DELETE RCRIS.UNIVPASS.DATA
    526 -? TSO DSNAMES '&FIID'
    528 TSO FREE ATTRLIST(R80)
    529 TSO ATTRIB R80 LRECL(80) BLKSIZE(23440) RECFM(F B) DSORG(PS)
    530 TSO ALLOC DDNAME(UCALC) DSNAMES('&FIID') -
    532 TSO FREE ATTRLIST(R80)
    538 TSO ALLOC DDNAME(UCALC) DSNAMES('&FIID') SHR REUSE
    542 TSO ALLOC DDNAME(UCALCPRM) SPACE(1) TRACK NEW DELETE REUSE -
    558 TSO ISPSTART CMD(XBATCHRP1 BDMJCALC &&DBPROG BATUCALC -
    578 -? TSO DSNAMES RCRIS.LOADUPD.DATA
    582 TSO DELETE RCRIS.LOADUPD.DATA

RCRADBUG ----- STRING(S) FOUND -----
    63 TSO FREE DDNAME(HOLDPCID) ATTRLIST(PCIDATTR)
    64 TSO DELETE HOLDPCID.DATA
    65 TSO ATTRIB PCIDATTR LRECL(14) BLKSIZE(140) DSORG(PS) RECFM(F B)
    66 TSO ALLOC DD(HOLDPCID) DS(HOLDPCID.DATA) SP(1,1) TR NEW CAT US(PCIDATTR)
    222 -? TSO DSNAMES RCRIS.LOADUPD.DATA
    226 TSO DELETE RCRIS.LOADUPD.DATA
    394 TSO CLR3270
    399 -? TSO DSNAMES RCRIS.UNIVPASS.DATA
    401 TSO FREE DDNAME(UNIVPASS)
    402 TSO DELETE RCRIS.UNIVPASS.DATA
    406 TSO FREE ATTRLIST(R14)
    407 TSO ATTRIB R14 LRECL(14) BLKSIZE(4242) RECFM(F B) DSORG(PS)
    408 TSO ALLOC DD(UNIVPASS) DS(RCRIS.UNIVPASS.DATA) SP(5,5) TR NEW CAT US(R14)
    409 TSO FREE ATTRLIST(R14)
    415 TSO ALLOC DDNAME(UNIVPASS) DSNAMES(RCRIS.UNIVPASS.DATA) MOD REUSE
    444 -? TSO DSNAMES '&FIID'
    446 TSO FREE ATTRLIST(R80)
```

```

447 TSO FREE DDNAME(UCALC)
448 TSO ATTRIB R80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
449 TSO ALLOC DD(UCALC) DS('&FIID') SP(5,5) TR NEW CAT US(R80)
450 TSO FREE ATTRLIST(R80)
453 TSO ALLOC DDNAME(UCALC) DSNAME('&FIID') SHR REUSE
458 TSO FREE DDNAME(UCALC)
459 TSO ALLOC DDNAME(UCALC) DSNAME('&FIID') SHR
468 -? TSO DSNAME RCRIS.UNIVPASS.DATA
482 TSO CLR3270
507 TSO FREE DDNAME(UNIVPASS)
508 TSO DELETE RCRIS.UNIVPASS.DATA
524 -? TSO DSNAME RCRIS.LOADUPD.DATA
528 TSO DELETE RCRIS.LOADUPD.DATA

```

RCRADCRP ----- STRING(S) FOUND -----

```

32 TSO FREE DDNAME(HOLDPCID) ATTRLIST(PCIDATTR)
33 TSO DELETE HOLDPCID.DATA
34 TSO ATTRIB PCIDATTR LRECL(14) BLKSIZE(140) DSORG(PS) RECFM(F B)
35 TSO ALLOC DD(HOLDPCID) DS(HOLDPCID.DATA) SP(1,1) TR NEW CAT US(PCIDATTR)
189 -? TSO DSNAME RCRIS.LOADUPD.DATA
193 TSO DELETE RCRIS.LOADUPD.DATA
367 -? TSO DSNAME RCRIS.UNIVPASS.DATA
369 TSO FREE DDNAME(UNIVPASS)
370 TSO DELETE RCRIS.UNIVPASS.DATA
374 TSO FREE ATTRLIST(R14)
375 TSO ATTRIB R14 LRECL(14) BLKSIZE(4242) RECFM(F B) DSORG(PS)
376 TSO ALLOC DD(UNIVPASS) DS(RCRIS.UNIVPASS.DATA) SP(5,5) TR NEW CAT -
378 TSO FREE ATTRLIST(R14)
384 TSO ALLOC DDNAME(UNIVPASS) DSNAME(RCRIS.UNIVPASS.DATA) MOD REUSE -
390 -? TSO DSNAME '&FIID'
392 TSO FREE ATTRLIST(R80)
393 TSO FREE DDNAME(UCALC)
394 TSO ATTRIB R80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
395 TSO ALLOC DD(UCALC) DS('&FIID') -
397 TSO FREE ATTRLIST(R80)
400 TSO ALLOC DDNAME(UCALC) DSNAME('&FIID') SHR REUSE
405 TSO FREE DDNAME(UCALC)
406 TSO ALLOC DDNAME(UCALC) DSNAME('&FIID') SHR
415 -? TSO DSNAME RCRIS.UNIVPASS.DATA
454 TSO FREE DDNAME(UNIVPASS)
455 TSO DELETE RCRIS.UNIVPASS.DATA
471 -? TSO DSNAME RCRIS.LOADUPD.DATA
475 TSO DELETE RCRIS.LOADUPD.DATA

```

RCRISTAL ----- STRING(S) FOUND -----

```

19 TSO FREE ATTRLIST(REC80)
20 TSO FREE DDNAME(PROFILE)
21 TSO DELETE RCRIS.PROFILE.DATA
22 TSO ATTRIB REC80 LRECL(80) BLKSIZE(4240) RECFM(F B) DSORG(PS)
23 TSO ALLOC DD(PROFILE) DS(RCRIS.PROFILE.DATA) SP(1,1) TR MOD CAT -
25 TSO FREE ATTRLIST(REC80)
64 TSO FREE DDNAME(STATE)
65 TSO ALLOC DDNAME(STATE) DSNAME(RCRIS.STATE.DATA) SHR
101 TSO FREE DDNAME(STATE)
144 TSO FREE ATTRLIST(REC04)
145 TSO FREE DDNAME(RCRISPAR)
146 TSO DELETE RCRIS.RCRISPAR.DATA
147 TSO ATTRIB REC04 LRECL(4) BLKSIZE(4240) RECFM(F B) DSORG(PS)
148 TSO ALLOC DD(RCRISPAR) DS(RCRIS.RCRISPAR.DATA) SP(1,1) TR NEW CAT -
150 TSO FREE ATTRLIST(REC04)
158 TSO FREE DDNAME(RCRISPAR)
369 TSO FREE DDNAME(PROFILE)

```


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RCRISTAZ. ----- STRING(S) FOUND -----

```
16 TSO FREE DDNAME(RCRISPAR)
17 TSO ALLOC DDNAME(RCRISPAR) DSNAME(RCRIS.RCRISPAR.DATA) SHR
43 TSO FREE DDNAME(PROFILE)
44 TSO ALLOC DDNAME(PROFILE) DSNAME(RCRIS.PROFILE.DATA) MOD -
53 TSO FREE DDNAME(PROFILE)
54 TSO ALLOC DDNAME(PROFILE) DSNAME(RCRIS.PROFILE.DATA) SHR
```

REBUILD ----- STRING(S) FOUND -----

```
18 TSO CLEAR
26 TSO CLEAR
28 TSO CLEAR
36 TSO CLEAR
57 TSO CLEAR
```

RLOAD ----- STRING(S) FOUND -----

```
4 -? TSO DDNAME MASTER
17 TSO FREE DDNAME(&NAME)
18 TSO ALLOC DDNAME(&NAME) DSNAME('&ACC..RCRIS.&NAME...DATA') SHR
59 TSO FREE DDNAME(STATECO0)
60 TSO FREE DDNAME(STATECO2)
61 TSO FREE DDNAME(STATECO3)
```

SORTINDX ----- STRING(S) FOUND -----

```
1 TSO FREE F(SORTIN SORTOUT SORTWK01 SORTWK02 SORTWK03)
2 TSO FREE F(SORTWK04 SORTWK05 SORTWK06)
3 TSO ALLOC F(SORTIN) SP(5,5) TRACKS
4 TSO ALLOC F(SORTWK01) SP(5,5) TRACKS
5 TSO ALLOC F(SORTWK02) SP(5,5) TRACKS
6 TSO ALLOC F(SORTWK03) SP(5,5) TRACKS
7 TSO ALLOC F(SORTWK04) SP(5,5) TRACKS
8 TSO ALLOC F(SORTWK05) SP(5,5) TRACKS
9 TSO ALLOC F(SORTWK06) SP(5,5) TRACKS
10 TSO ALLOC F(SORTOUT) SP(5,5) TRACKS
11 TSO ALLOC F(SYSOUT) DA(*)
```

TTSVFLE ----- STRING(S) FOUND -----

```
51 -? TSO DDNAME &DDNAME
58 TSO ISPSTART CMD(%FILECOPY &DDNAME -
60 TSO FREE DS('&DSNAME' -
```



RCRIS System Technical Guide

APPENDIX E GENERAL NAMING CONVENTION FOR FOCEXEC FILES

RCRIS program names generally follow a naming convention where the first two letters denote the module to which the program pertains, the next two letters denote the program's function, and the remaining characters give an extremely brief description.

Module

CA	Corrective Action
CM	Compliance Monitoring & Enforcement
DA	Data Assessment
DB	DBA Programs
FC	Narratives
FI	FOIA Reports
FM	Facility Management Planning
H	Handler Identification
IS	Installation Utilities
MR	Merge
PC	Permitting/Closure/Post-Closure
PM	Program Management

Function

AD	Add
CH	Change ID
CI	Delete ID
DE	Delete
ED	Edit
FM	Informed Forms
LD	Load
MU	Menu
RP	Report
UL	Unload (Extract)
UP	Update

For example: PMDEEVNT would be the Program Management FOCEXEC to delete Events.

Please note that these rules are general. For various reasons, there are exceptions to these naming conventions.



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APPENDIX F - List of Programs

RCRS.RCRIS.CLIST

--MEMBERS--

ACCEPT	FFREALOC	MODESCPY	RCRIBMFL
ACCOUNT	*FFREALO2	MOUFCOPY	RCRINIT
*ALERTS	FFREPDEL	MOUFDEL	RCRIORTB
BATCHRP1	*FFRESTOR	MOUINIT	RCRIORT2
BATCHRP3	*FILECOPY	MRCRGDG	*RCRIS
BATCHSUB	*FILETRAN	*MRCYCLE2	RCRISDWN
*BATUCALC	GDDOC	MRDBUT12	*RCRISREG
CALFOCUS	GDDOCJOB	MRESTORE	*RCRISSU
CARSARCH	GDEPISPF	MREXTRA2	*RCRISVJ
CARSDEAR	GDRDOCS	MRFFUTIL	*RCRMEMDC
**CMESTAR	GDREP	MRPOP	*RCRMEMDP
CNEXCARS	GDRMAIN	*MRPRECK	RCRMENU
*CNLDCARS	GDRMENU	MRPRELD	RCRMOUTB
*CNLDCMEE	GDRUSER	MRPRERU	*RCRNIBCG
*CNLDHAND	GDVGET	MRRCGDG	*RCRNIBFL
*CNLDPERM	HEAD	MRREBILD	RCRSMAIN
CNMULOAD	INITBDT	MRRPRCAL	RCRSMVJ
*CNMUMAIN	*INSTALL	MRRPSTLS	RCRSUSER
CNPCLOAD	**INSTALL	MRSTDELS	RCRSXVER
CONVERT	*INSTALLB	MRSTLIST	RCRUSER
CONVLDCP	*INSTALLK	*MRUPDAT2	RCRXMTCG
CONVUTIL	*INSTALLO	*MRUPDT	RCRXMTFL
*COPYCOMP	*INSTREG	MRXTRCT	READVAR
*COPYFILE	IORFCOPY	NEWHAND1	*REBUILD
*COPYSOFT	IORFDEL	NEWHAND2	REPORTS
*COPYTABL	ISCHGCPY	NEWRCRIS	RLINQISH
COPYTBUP	*ISDBMAIN	#NRCRIS	RSET
*COPYUSUP	ISDBMRGE	OWNRLIST	SUATUOP
CREATETB	ISDBREG	PASTFILE	SUAUTOP
CREATET2	ISUPFOCI	PMDEARCH	SUAUTOS
CRESTTBL	*ISUPFOC2	PRDOC	SUBMIT
#DBAMAIN	ISUPINST	PREPARE	SUMAIN
DBAREBLD	ISUPI201	PREPISPF	SUMODE
DOCJOB	JOBEND	*PRINTDOC	*SUPRO
DSCHECK	KEEPDBS	PRNDEST	*SUPRO1
EDITOR	*KHDBSET	PROGCOMP	SURCRIS
*EMERG211	LONGDEST	PROGCOPY	SUREBILD
*FFALLOC	*MAKETAPE	PRTDEST	*SUSTART
**FFALLO2	MBACKUP	*RBDTEMER	SUSTART1
*FFBACKUP	MBACKUP2	RCRCPYCG	SUSTART2
*FFCOPY	MDBSLDBT	*RCRCPYFL	*SUSTATUS
FFCOPY1	MDBSLDCP	*RCRCPYSW	SUSTAT1
FFDELBKP	MDELETE	RCRDOC	*SUSTOP
FFDELETE	*MERGPRO	RCRDOCS	SUSTOP1
	MODEEXEC	RCREP	SUSTTASK
	MODEPCPY	RCRIBMCG	SYNC

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

S2KARCH
TAPEPRO
*TESTBASE
TESTLA
TSTDBCPY
TSTDBDEL
TSTDBPNL
TSTSWCPY
USRALERT
VGET
WELCOME

RCRS.RCRIS.CNTL

--MEMBERS--

BDTAFOC
BDTCFOC
BDTFOC
BDTHFOC
BDTPFOC
CCME
CCNTS
CCOMP
CHID
COMPCOBL
COMPLEX

COPYSOFT
CPMT
DSK2TAPE
ECME
ECMEOLD
EDITJCL
EHID
EPMT
EXTRDATA
HCOMP
MRCNGDG
MRLDRCRI
MRLDRCR2

MRLDRCR3
MRRNGDG
MRULRCRI
MRULRCR2
OPTECME
PCOMP
RCRBDTDB
RCRBDTLD
RCRBDTSW
RCRMARCH
RCRTPCCG
RCRTPCDB
RCRTPCSW

RCRTPLCG
RCRTPLDB
RCRTPLSW
RCRUPREG
SNAPREST
SNAPRES2
SUSTTASK
SUTABLE
TAPE1
TEMP1
TEMP2

RCRS.RCRIS.FOCCOMP.DATA

--MEMBERS--

*CAUPAREA
*CAUPCONS
*CAUPEVNT
*CAUPINST
*CAUPISLK
*CAUPUPDT
*CMDEAGCY
*CMDEAREA
*CMDEENFO
*CMDEEVAL
*CMDEREAS
*CMDEREGT
*CMDEVIOL
*CMEUNIV
*CMUPAGCY
*CMUPAREA
*CMUPENFO
*CMUPEVAL
*CMUPLINK

*CMUPREAS
*CMUPREGT
*CMUPTICK
*CMUPVIOL
*DBDEETMP
*DBDENNAME
*DBDETYPE
*DBUPCONS
*DBUPETMP
*DBUPNAME
*DBUPREM
*DBUPRESP
*DBUPTYPE
*FCDENARR
*FCLDASC2
*FCLDASC3
*FCUPNARR
*FMADCME
*FMADFMP
*FMADINFO
*FMDEEVNT

*FMDEINFO
*FMUPCAF
*FMUPINFO
*FMUPPMT
*HCNTACTC
*HCNTACTD
*HDUPUNIV
*HNDEL
*HOTHELMC
*HOTHELMD
*HOWNDEL
*HPDEL
*HPERMADD
*HPERMDEL
*HPROCADD
*HPROCDEL
*HRECDATD
*HSICADD
*HUNITC
*HUNITD
*HUPNOTIF

*HUPPARTA
*HVWNOTIF
*HVWPARTA
*HWCHARC
*HWCHARD
*HWCODEAD
*HWCODEDL
*PCDEPEST
*PCDEPJDE
*PCDEPROC
*PCDEUNIT
*PCUPEUPD
*PCUPLUPD
*PCUPPEST
*PCUPPJAD
*PCUPUNIT
*PCUPUPDT
*PCUPUSPL
*PCUPEUPD
*PCVWEUPD
*PMADUNIV

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

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*PMDECARE
 *PMDECOMM
 *PMDEENRE
 *PMDEEVNT
 *PMDEEVRE
 *PMDEPCRE
 *PMDEPMRE
 *PMHLINKM
 *PMSELECT
 *PMUPCARE
 *PMUPCOMM
 *PMUPENRE
 *PMUPEVNT
 *PMUPEVRE
 *PMUPPCRE
 *PMUPPMRE

RCRS.RCRIS.FOCEXEC.DATA

--MEMBERS--

*ALLOACTS	CARPEVN1	CARPSPL2	CARPS2C1
BACKDOOR	CARPHDR1	CARPSPL3	CARPS2C2
BATUCALC	CARPHDR2	CARPSPL4	CARPS2ER
BDMUCALC	CARPHD1	CARPSPL5	CARPS2ES
CACLEAN	CARPHD2	*CARPSPM5	CARPS2L1
CACOMME	CARPIF4	CARPSPM1	CARPS2L2
CACOMPIL	CARPIF5	CARPSPM2	CARPS2M1
CACTIVIT	**CARPIF9A	CARPSPM3	CARPS2M2
CADEAREA	**CARPIF9B	CARPSPM4	**CARPS3ER
CADECONS	*CARPINFF	CARPSPM5	**CARPS3ES
*CADEEVNT	*CARPINS1	CARPSPM6	**CARPS3L1
CADEINST	CARPLINK	CARPSPM7	**CARPS3L2
*CAMUMAIN	CARPLIST	CARPS90	**CARPS3L3
CAMUNEW	CARPM5G	CARPSTAR	**CARPS3L4
CARPARE1	CARPM5G2	CARPSTSP	**CARPS3M1
*CARPASMT	*CARPPAST	CARPS1C1	**CARPS3M2
*CARPCCMP	CARPPAS1	CARPS1C2	**CARPS3M3
*CARPCOMP	**CARPPG09	CARPS1C3	**CARPS3M4
CARPCONS	CARPSELE	CARPS1C4	CARPTX1
CARPCON1	CARPSEL1	CARPS1C5	CARPUNIV
CARPDEC1	CARPSEL2	CARPS1ER	CARP0005
CARPDEF1	CARPSEL3	CARPS1ES	CARP0006
*CARPDET1	CARPSEL4	CARPS1L1	*CARP0007
CARPDET2	CARPSEL5	CARPS1L2	CAUPAREA
CARPDEV	CARPSEL6	CARPS1L3	CAUPCONS
CARPDEV1	CARPSEL7	CARPS1L4	*CAUPEVNT
CARPDEV2	CARPSEL8	CARPS1L5	*CAUPINST
*CARPDUE	**CARPSEL9	CARPS1M1	*CAUPISLK
CARPDUE1	CARPSPDV	CARPS1M2	CAUPUPDT
CARPD001	CARPSPER	CARPS1M3	CDEVICE
	CARPSPE5	CARPS1M4	CEEVAL
	CARPSPL1	CARPS1M5	CESEL

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

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CESELHI	CMRPAACT	CMRPSMRR	CMRPS2ES
CEXTRACT	CMRPAGCY	CMRSPDV	CMRPS2L0
CFIELD	CMRPAREA	CMRSPER	CMRPS2L1
CFIELD1	*CMRPBAT	CMRSPES	CMRPS2L2
CFIELD2	*CMRPCOMP	CMRSPPLC	CMRPS2L3
CFIELD3	CMRPCONT	CMRPSPL0	CMRPS2L4
CFIELD4	*CMRPDADR	CMRPSPL1	CMRPS2M0
CFORM	CMRPDEV1	CMRPSPL2	CMRPS2M1
CHECK	CMRPD001	CMRPSPL3	CMRPS2M2
CHECK2	*CMRPD002	CMRPSPL4	CMRPS2M3
CHECK3	*CMRPD003	CMRPSPL5	CMRPS2M4
CHGVOL1	CMRPD004	*CMRPSPM5	**CMRPS3ER
CHGVOL2	CMRPD005	CMRSPM0	**CMRPS3ES
CHKACCES	*CMRPENNO	CMRSPM1	**CMRPS3L0
CHKACCE2	*CMRPENNV	CMRSPM2	**CMRPS3L1
*CHKACCXS	*CMRPEOYR	CMRSPM3	**CMRPS3L2
*CHKACCX2	CMRPEVNO	CMRSPM4	**CMRPS3L3
CMDEAGCY	CMRPEVNV	CMRSPM5	**CMRPS3L4
CMDEAREA	*CMRPFMAN	CMRSPM6	**CMRPS3L5
*CMDEENFO	CMRPFOIA	CMRSPM7	**CMRPS3M0
*CMDEEVAL	CMRPFOI1	CMRSPR0	**CMRPS3M1
CMDEPTRS	CMRPFOI2	CMRSPR1	**CMRPS3M2
CMDEREAS	CMRPGENL	CMRSPR2	**CMRPS3M3
CMDEREGT	*CMRPHD1	CMRSPR3	**CMRPS3M4
CMDEVOL	CMRPHD2	CMRSPR4	**CMRPS3M5
CMEASSES	*CMRPHIST	CMRSPR5	CMRPTADE
*CMECOMP	CMRPHIS2	CMRSPR6	CMRPTAMV
CMEUNIV	CMRPMENF	CMRSPR7	CMRPTASP
CMFMENFO	CMRPMINS	CMRSPR8	*CMRPTGIN
CMFMEVAL	CMRPPOST	CMRSPR9	*CMRPTICK
CMFMEV1	CMRPREAS	*CMRPSTAR	CMRPTNDA
CMFMEV2	CMRPREDE	CMRPSTSP	CMRPUNV1
CMFMEV3	CMRPREGT	CMRPSTUP	CMRPUNV2
CMFMEV4	CMRPSEL	*CMRPSVAR	CMRPUNV3
CMFMEV5	CMRPSEL0	CMRPS1C1	CMRPUNV4
CMFMEV6	CMRPSEL1	CMRPS1ER	CMRPUNV5
CMFULREG	CMRPSEL2	CMRPS1ES	CMRPUNV6
CMHEADIN	CMRPSEL3	CMRPS1L0	*CMRPUNV7
CMHESUMY	CMRPSEL4	CMRPS1L1	CMRPUNV8
CMLD1	CMRPSEL5	CMRPS1L2	CMRPUNV9
CMLD1A	*CMRPSEL6	CMRPS1L3	CMRPUN10
CMLD1B	CMRPSEL7	CMRPS1L4	*CMRPUN11
CMLD1C	*CMRPSEL8	CMRPS1L5	CMRPUN12
CMLD2	CMRPSEL9	CMRPS1M0	CMRPUN13
CMLD2B	CMRPSE11	CMRPS1M1	CMRPUN14
CMLD3	CMRPSE12	CMRPS1M2	CMRPUN15
CMLD3A	CMRPSE13	CMRPS1M3	*CMRPUN16
CMMUDAMU	CMRPSE14	CMRPS1M4	*CMRPUN17
CMMUGENL	CMRPSE15	CMRPS1M5	CMRPUN18
*CMMUMAIN	CMRPSE16	CMRPS2C2	CMRPUN19
*CMMUREPM	*CMRPSMRI	CMRPS2ER	CMRPVIEN

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

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*CMRPVINO	*DBCHIDSM	EVENT	*FIRPI000
*CMRPVNEN	*DBCHIDS1	PCDENARR	*FIRPI002
*CMRPVNEV	DBCHISPA	FCLDASC1	FIRPI008
CMUPAGCY	DBDEETMP	FCLDASC2	*FIRPI010
CMUPAREA	DBDENAME	FCLDASC3	FIRPI015
*CMUPENFO	**DBDESTDS	FCMUMAIN	*FIRPI030
*CMUPEVAL	DBDETYPE	FCRPNARR	*FIRPI032
*CMUPLINK	*DBHCHGID	FCUPNARR	*FIRPI034
CMUPREAS	*DBHNDEL	FFA1	*FIRPI036
CMUPREGT	DBHNDEL2	FFA2	FIRPI038
*CMUPTICK	*DBHNDEPM	FFA3	*FIRPI050
*CMUPVIOL	*DBHNDEPU	*FFA4	*FIRPI052
CNEWVIO2	*DBMUMAIN	FFA5	*FIRPI054
CNEWVIO3	DBMUMAIX	FFA6	*FIRPI056
CNRPSTAT	DBRPBRK1	FFA7	FIRPI058
COMPALL	*DBRPCONS	FFA8	*FIRPI070
CONTROL1	DBRPDEV	*FFC1	*FIRPI072
CONTROL2	DBRPETMP	FFC2	*FIRPI074
CONVERT	DBRPHEAD	*FFC3	*FIRPI076
CRPTENF1	DBRPIF01	FFC4	FIRPI078
CRPTENF2	DBRPNAME	*FFC5	*FIRPI100
CRPTEVA1	DBRPPG01	FFC6	*FIRPI102
CRPTEVA2	DBRPREM	FFC7	FIRPI108
CRPTEVA3	DBRPSECU	**FFC8	*FIRPI120
CRPTEVA4	*DBRPSECX	FFHA	*FIRPI122
CRPTEVA5	*DBRPSEL1	FFHB	*FIRPI700
CSELECT	DBRPSTRT1	FFHC	*FIRPI702
CUTIL10	**DBRPSTDS	FFHD	*FIRPI920
CUTIL11	DBRPTYPE	FFHE	*FIRPI922
CUTIL12	DBUPCONS	FFHF	*FIRPI940
CUTIL13	DBUPETMP	FFHN	*FIRPI942
CUTIL14	DBUPNAME	FFH1	FMADCME
CUTIL15	DBUPREM	FFH2	FMADTMP
CUTIL7	DBUPRESP	FFH3	FMADINFO
CUTIL8	DBUPSECU	FFH4	FMDEEVNT
CUTIL9	*DBUPSECX	FFH5	FMDEINFO
CVAREA	**DBUPSTDS	FFH6	FMDENARR
CVCARTE	DBUPTYPE	FFH7	FMUMAIN
CVCOMMEN	DELHIDS	FFH8	FMPCOMP
CVEVENT	DELNOTYP	FFH9	FMRPAUDT
CVINST	DELNULEN	FFM1	FMRPDMFMP
CVREPORT	DELNULEV	FFM2	FMRPESCH
*DAMUMAIN	DELNULL	*FFP1	FMRPETAB
DARPPOT	DETHHAND	FFP2	FMRPHLST
DBACOMP	DETHUNIV	FFP3	FMRPMLST
*DBCHIDEA	DEVICE	FFP4	FMRPNAME
*DBCHIDEV	DSCHECK	FILPRINT	FMRPPEND
*DBCHIDE1	DUP	*FIMUBAT	FMRPWORK
*DBCHIDPA	DUP2	*FIMUDRIV	FMUPCAF
*DBCHIDPM	EDITOR	*FIMUINIT	FMUPINFO
*DBCHIDSA	ENCRYPT	FIMUOBAT	FMUPPMT

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

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*FRONTEND	*HCHGID3	HIRPPG02	IOREXTRT
FRONTEN2	*HCHGID4	HIRPPG03	IORLOAD
FRONTEVJ	*HCNTACTC	HIRPPG04	IORRP
GLOBAL	*HCNTACTD	HIRPPG05	ISDEETMP
HANDCOMP	HCOMP	HIRPSEL1	ISTPROF
HANDLER	HDUPUNIV	HIRPSEL2	*ISUPADES
HANDLER1	HFDEFCLR	HIRPSEL3	ISUPAGCY
HANDLER2	HFILEDEF	HIRPSEL4	*ISUPCARB
HANDLER3	HIDFIXP	HIRPSEL5	ISUPCAR1
HANDLER4	HIDFIXW	HIRPTSDU	**ISUPCIRB
HANDLER5	HIDLD1	*HIRPUNIV	**ISUPCNRB
HANDLER6	HIDLD10	HLABEL	ISUPCOMT
HANDLER7	HIDLD10A	HLETTER	**ISUPCTRB
HANDLER8	HIDLD11	*HNDEL	**ISUPCVRB
HANDLER9	HIDLD12	HONELINE	ISUPEAGY
HANDRPT	HIDLD2	*HOTHELMC	ISUPEAG1
HBURNRPT	HIDLD3	*HOTHELMD	ISUPECON
HCAPACTY	HIDLD4	*HOWNDEL	**ISUPELRB
HCAP1	HIDLD5	HPCADD	**ISUPENRB
*HCCIDCNA	HIDLD6	HPCDEL	ISUPEPRA
*HCCIDCN1	HIDLD7	*HPDEL	*ISUPETMP
*HCCIDCN2	HIDLD8	*HPERMADD	*ISUPEVRB
*HCCIDCRA	HIDLD9	*HPERMDEL	ISUPEVR1
*HCCIDCR1	HINSPECT	*HPROCADD	ISUPHCOT
*HCCIDCR2	HIRPACK	*HPROCDEL	ISUPHCO1
*HCCIDCTA	HIRPACKF	HPTADD	ISUPHCTY
*HCCIDCT1	HIRPACT	HPTDEL	ISUPHCT2
*HCCIDCT2	HIRPCALC	HPUADD	ISUPHTSD
*HCCIDENA	HIRPCP01	HPUDEL	*ISUPH1RB
*HCCIDEN1	HIRPDEF1	*HRECDATD	ISUPH1R1
*HCCIDEN2	HIRPDEF2	HREPGEN	*ISUPH2RB
*HCCIDEVA	HIRPDEV	*HSICADD	ISUPH2R1
*HCCIDEV1	HIRPD001	HSTORTRT	ISUPINST
*HCCIDEV2	HIRPD002	*HUNITC	ISUPIORP
*HCCIDPUA	HIRPD003	*HUNITD	ISUPKHDB
*HCCIDPU1	HIRPD004	*HUPNOTIF	*ISUPMAIN
*HCCIDPU2	HIRPD005	*HUPPARTA	**ISUPMAIX
*HCCIDPVA	HIRPD006	HUTADD	*ISUPMAI2
*HCCIDPV1	HIRPD007	HUTDEL	*ISUPMAI3
*HCCIDPV2	HIRPD008	*HVPARTA	ISUPMOUT
*HCCIDTKA	HIRPD009	*HVWNOTIF	ISUPMTRG
*HCCIDTK1	HIRPHDR1	*HVWPARTA	ISUPMTVS
*HCCIDTK2	HIRPHDR2	HWCADD	ISUPM201
*HCCIDVIA	HIRPIF01	HWCDL	ISUPM210
*HCCIDVI1	HIRPLAB	*HWCHARC	ISUPM211
*HCCIDVI2	HIRPLAB1	*HWCHARD	ISUPM212
*HCHGID	HIRPLET	*HWCODEAD	ISUPPKEY
*HCHGIDA	HIRPMSG1	*HWCODEDL	*ISUPPMRB
*HCHGIDB	HIRPMSG2	INITSYNC	ISUPPMR1
*HCHGID1	HIRPMSG3	*IORCONT	ISUPPM01
*HCHGID2	HIRPPG01	IORCONT2	ISUPPROC

Explanation of member prefixes:

- # Member deleted in this release
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- * Member changed in this release

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ISUPPSEQ	MRDECACO	MREDM1IN	MRED0044
*ISUPPURB	MRDECAIN	MREDPROG	MRED0045
ISUPPUR1	MRDECEEN	MREDP1IN	MRED0046
*ISUPPVRB	MRDECEEV	MREDP2IN	MRED0047
ISUPPVR1	MRDECEPE	MREDP4IN	MRED0048
**ISUPP190	MRDECEVI	MREDRP01	MRED0049
ISUPP205	MRDEEVEN	MREDTSO1	MRED0050
**ISUPP302	MRDEHAND	MREDULFT	MRED0051
ISUPREDO	MRDEMOUT	MRED0001	MRED0052
ISUPREG	MRDEPEVE	MRED0002	MRED0053
**ISUPRPER	MRDEPMCO	MRED0003	MRED0054
ISUPSCON	MREDALLC	MRED0004	MRED0055
**ISUPSDEF	MREDA1IN	MRED0005	MRED0056
*ISUPSDES	MREDA2IN	MRED0006	MRED0057
ISUPSECU	MREDA3IN	MRED0007	MRED0058
*ISUPSICC	MREDA6IN	MRED0008	MRED0059
ISUPSPEP	MREDCLER	MRED0009	MRED0060
ISUPSPRO	MREDC1IN	MRED0010	MRED0061
ISUPSTAR	MREDC4IN	MRED0011	MRED0062
*ISUPSTAT	MREDC7IN	MRED0012	MRED0063
ISUPSUOM	MREDC9IN	MRED0013	MRED0064
ISUPUOM	MREDDLAR	MRED0014	MRED0065
ISUPV200	MREDDL CN	MRED0015	MRED0066
ISUPV211	MREDDLDP	MRED0016	MRED0067
ISUPWCUP	MREDDL EL	MRED0017	MRED0068
ISUPWPD T	MREDDL EN	MRED0018	MRED0069
ISU2P205	MREDDLEV	MRED0019	MRED0070
LOADCARS	MREDDLFT	MRED0020	MRED0071
LOADCEEN	MREDDLH1	MRED0021	MRED0072
LOADCEEV	MREDDLH2	MRED0022	MRED0073
LOADCME	MREDDLIN	*MRED0023	MRED0074
LOADHID	MREDDLPE	MRED0024	MRED0075
LOADIT	MREDDLPM	MRED0025	MRED0076
LOADNEW	MREDDLPU	MRED0026	MRED0077
LOADNEW2	MREDDL PV	MRED0027	MRED0078
LOADPMT	MREDDLVI	MRED0028	MRED0079
LOADRMV	MREDDOS1	MRED0029	MRED0080
LOADRMVA	MREDEPAE	MRED0030	MRED0081
LOADRMVB	MREDHAND	MRED0031	MRED0082
LOADRMV2	MREDHEIN	MRED0032	MRED0083
MERGE	MREDH4IN	MRED0033	MRED0084
MERGE2	MREDH5IN	MRED0034	MRED0085
MOREPERM	MREDH6IN	MRED0035	MRED0086
MRADCNTR	MREDH7IN	MRED0036	MRED0087
MRBRCF	MREDH9IN	MRED0037	MRED0088
MRBRIOR	MREDITER	MRED0038	MRED0089
*MRCRCF	MREDJOIN	MRED0039	MRED0090
MRCREATE	MREDL DFT	MRED0040	MRED0091
MRCRMOU	MREDLDTF	MRED0041	MRED0092
MRCRUSE	MREDLOAD	MRED0042	MRED0093
MRDECAAR	MREDMAIN	MRED0043	MRED0094

Explanation of member prefixes:

- # Member deleted in this release
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MRED0095	MRED0146	MRED0197	MRLDFFC4
MRED0096	MRED0147	MRED0198	MRLDFFC5
MRED0097	MRED0148	MRED0199	MRLDFFC6
MRED0098	MRED0149	MRED0200	MRLDFFC7
MRED0099	MRED0150	MRED0201	**MRLDFFC8
MRED0100	MRED0151	MRED0202	MRLDFFHA
MRED0101	MRED0152	MRED0203	MRLDFFHB
MRED0102	MRED0153	MRED0204	MRLDFFHC
MRED0103	MRED0154	MRED0205	MRLDFFHD
MRED0104	MRED0155	MRED0206	MRLDFFHE
MRED0105	MRED0156	MRED0207	MRLDFFHF
MRED0106	MRED0157	MRED0208	MRLDFFHN
MRED0107	MRED0158	MRED0209	MRLDFFH1
MRED0108	MRED0159	MRED0210	MRLDFFH2
MRED0109	MRED0160	MRED0211	MRLDFFH3
MRED0110	MRED0161	MRED0212	MRLDFFH4
MRED0111	MRED0162	MRED0213	MRLDFFH5
MRED0112	MRED0163	MRED0214	MRLDFFH6
MRED0113	MRED0164	MRED0215	MRLDFFH7
MRED0114	MRED0165	MRED0216	MRLDFFH8
MRED0115	MRED0166	MRED0217	MRLDFFH9
MRED0116	MRED0167	MRED0218	MRLDFFM1
MRED0117	MRED0168	MRED0219	MRLDFFM2
MRED0118	MRED0169	MRED0220	MRLDFFP1
MRED0119	MRED0170	MRED0221	MRLDFFP2
MRED0120	MRED0171	MRED0222	MRLDFFP3
MRED0121	MRED0172	MRED0223	MRLDFFP4
MRED0122	MRED0173	MRED0224	MRLDF2A1
MRED0123	MRED0174	MRED0225	MRLDF2A2
MRED0124	MRED0175	MRED0226	MRLDF2A3
MRED0125	MRED0176	MRED0227	MRLDF2A4
MRED0126	MRED0177	MRED0228	MRLDF2A5
MRED0127	MRED0178	MRED0229	MRLDF2A6
MRED0128	MRED0179	MRED0230	MRLDF2A7
MRED0129	MRED0180	MRFFSTA2	MRLDF2A8
MRED0130	*MRED0181	MRLDARRC	MRLDF2C1
MRED0131	MRED0182	MRLDCNRC	MRLDF2C2
MRED0132	MRED0183	*MRLDELRC	MRLDF2C3
MRED0133	MRED0184	*MRLDENRC	MRLDF2C4
MRED0134	MRED0185	*MRLDEVRC	MRLDF2C5
MRED0135	MRED0186	MRLDFFA1	MRLDF2C6
MRED0136	MRED0187	MRLDFFA2	MRLDF2C7
MRED0137	MRED0188	MRLDFFA3	**MRLDF2C8
MRED0138	MRED0189	MRLDFFA4	MRLDF2HA
MRED0139	MRED0190	MRLDFFA5	MRLDF2HB
MRED0140	MRED0191	MRLDFFA6	MRLDF2HC
MRED0141	MRED0192	MRLDFFA7	MRLDF2HD
MRED0142	MRED0193	MRLDFFA8	MRLDF2HE
MRED0143	MRED0194	*MRLDFFC1	MRLDF2HF
MRED0144	MRED0195	MRLDFFC2	MRLDF2HN
MRED0145	MRED0196	*MRLDFFC3	

Explanation of member prefixes:

- # Member deleted in this release
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RCRIS System Technical Guide

MRLDF2H1	MRRPCM02	MRRPUPAR	MRULEXMM
MRLDF2H2	MRRPCM03	MRRPUPCN	MRULEXM1
MRLDF2H3	MRRPDEV	MRRPUPD	MRULEXM2
MRLDF2H4	MRRPDEV1	*MRRPUPDT	*MRULEXP1
MRLDF2H5	MRRPDEV2	MRRPUPEL	MRULEXP2
MRLDF2H6	MRRPEDD	MRRPUPEN	MRULEXP3
MRLDF2H7	*MRRPEDDT	MRRPUPEV	*MRULEXP4
MRLDF2H8	MRRPEDS	MRRPUPH1	MRULHOLD
MRLDF2H9	*MRRPEDSU	MRRPUPH2	MRULRCNT
MRLDF2M1	MRRPFF	MRRPUPIN	*MRULRCRI
MRLDF2M2	MRRPFFA3	MRRPUPNA	MRULUPDT
MRLDF2P1	MRRPFFC4	MRRPUPPC	MRUPARFT
MRLDF2P2	MRRPFFH1	MRRPUPPU	MRUPARNF
MRLDF2P3	MRRPFFH4	MRRPUPPV	MRUPCF
MRLDF2P4	MRRPFFP1	MRRPUPSM	MRUPCNFT
MRLDF3A5	MRRPFFP4	MRRPUPVI	MRUPCENN
MRLDF3A6	MRRPHARD	MRRPUTBL	MRUPCNTL
MRLDF3A7	MRRPHDEL	MRSTDELS	*MRUPELFT
MRLDF3C5	MRRPHI01	MRSTLIST	MRUPELNF
MRLDF3C6	MRRPHI02	MRULEXA1	*MRUPENFT
MRLDF3C7	MRRPHI03	MRULEXA2	*MRUPENN
MRLDF3H5	MRRPHI04	MRULEXA3	MRUPEVFT
MRLDF3H6	MRRPHI05	*MRULEXA4	MRUPEVNF
MRLDF3H7	MRRPHI06	MRULEXA5	MRUPH1FT
MRLDF3H8	MRRPHI07	MRULEXA6	MRUPH1NF
MRLDF3P2	MRRPHI08	*MRULEXA7	*MRUPH2FT
MRLDH1RC	MRRPIIOR	MRULEXA8	MRUPH2NF
*MRLDH2RC	MRRPIMOU	*MRULEXC1	*MRUPINFT
*MRLDINRC	*MRRPIORF	MRULEXC2	*MRUPINN
MRLDIOR	MRRPLD03	*MRULEXC3	MRUPIOR
MRLDNARC	MRRPLD04	*MRULEXC4	MRUPLMOU
*MRLDPCRC	MRRPLOGE	*MRULEXC5	MRUPNAFT
*MRLDPURC	MRRPMOU	*MRULEXC6	MRUPNANF
*MRLDPVRC	MRRPORPH	*MRULEXC7	*MRUPPCFT
*MRLDRCRI	MRRPPC01	*MRULEXC8	MRUPPCNF
MRLDSTA2	MRRPPC02	MRULEXHA	MRUPPUFT
*MRLDVIRC	MRRPPC03	MRULEXHB	MRUPPUNF
MRMOUCR	MRRPPM01	MRULEXHC	*MRUPPVFT
MRMUCF	MRRPPRS	MRULEXHD	*MRUPPVNF
MRMUOR	*MRRPPRSU	MRULEXHE	*MRUPVIFT
MRMUMAIN	MRRPSTLS	MRULEXHF	*MRUPVIN
MRMUMOU	*MRRPUL01	MRULEXHN	MRUP1MOU
*MRPRELOD	*MRRPUL02	MRULEXH1	MRUP2MOU
MRREBILD	*MRRPUL03	MRULEXH2	MTCHAREA
MRRPAUD	*MRRPUL04	MRULEXH3	M2ULMOU
MRRPCA01	MRRPUL1	MRULEXH4	M2ULRCRI
MRRPCA02	*MRRPUL1A	MRULEXH5	NARRCOMP
MRRPCA03	MRRPUL2	MRULEXH6	NOACCESS
MRRPCA04	MRRPUL3	MRULEXH7	NODBA
MRRPCF	MRRPUP	MRULEXH8	NOMOUT
MRRPCM01	MRRPUPAC	MRULEXH9	NOREPORT

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

RCRIS System Technical Guide

NOUPDATE	PCRPS18	PCRPS25	PILOTR20
ORDCNT	PCRPS19	*PCRPS26	PLINK
PASS3	PCRPS20	*PCRPS27	PMADUNIV
PASS4	PCRPS21	*PCRPS28	PMCOMP
PCDENAME	PCRPS22	*PCRPS29	PMDECARE
PCDEPEST	PCRPS23	*PCRPS30	PMDECOMM
PCDEPJDE	PCRPS24	PCRPS31	*PMDEENRE
PCDEPROC	PCRPS25	PCRPS32	*PMDEEVNT
PCDEUNIT	PCRPS26	PCRPS33	*PMDEEVRE
PCLDCOMP	PCRPS27	PCRPS34	PMDEPCRE
PCLDFDEF	PCRPS28	PCRPS35	*PMDEPMRE
PCMUDEV	PCRPS29	PCRPS36	*PMHLINKF
*PCRPCOMP	PCRPS30	*PCRPS91	*PMHLINKM
PCRPEV	PCRPS31	*PCRPO001	PMHLINKU
PCRPDMP1	PCRPS32	PCULFDEF	*PMMMAIN
PCRPDMP2	PCRPS33	*PCUPEUPD	PMMUMAVJ
PCRPEM92	PCRPS34	PCUPLUPD	**PMRPDA01
PCRPMGR1	PCRPS35	PCUPNAME	*PMRPDETC
PCRPMGR2	PCRPS36	PCUPPEST	PMRPDETE
PCRPMILE	PCRPS37	PCUPPJAD	PMRPDETH
PCRPN092	PCRPS38	PCUPUNIT	PMRPDETR
PCRPOP1	PCRPS39	PCUPUPDT	PMRPDEV
PCRPOP2	PCRPS90	PCUPUSPL	PMRPD001
PCRPSLA	PCRPS92	*PCUPEUPD	PMRPD002
PCRPSL1	*PCRPSDR	*PCVWEUPD	**PMRPELNK
PCRPSL2	#PCRPSDX	PERMDATA	PMRPEXRE
PCRPSL3	**PCRPSD1	PERMIT	PMRPSL1
PCRPSL4	PCRPS01	PERMIT1	PMRPSL2
PCRPSL5	PCRPS02	PERMIT2	PMRPSL3
PCRPSL6	PCRPS03	PERMIT3	PMRPSL4
PCRPSL7	PCRPS04	PERMIT4	PMRPSUMC
PCRPSL8	PCRPS05	PERMPROC	PMRPSUME
PCRPSDR	PCRPS06	PEVENT	PMRPSUMH
PCRPSMS	PCRPS07	PGM1	PMRPSUMR
PCRPSM1	PCRPS08	PGM14	PMSELECT
PCRPSM2	PCRPS09	PGM2	PMUPCARE
PCRPSM3	PCRPS10	PILOTRP1	PMUPCOMM
PCRPSM4	PCRPS11	PILOTRP2	*PMUPENRE
PCRPSM5	PCRPS12	PILOTRP3	*PMUPEVNT
PCRPSM6	PCRPS13	PILOTRP4	*PMUPEVRE
PCRPSM7	PCRPS14	PILOTRP5	PMUPIMRE
PCRPSM8	PCRPS15	PILOTRP6	PMUPPCRE
PCRPSM9	PCRPS16	PILOTRP7	*PMUPPMRE
PCRPS10	PCRPS17	PILOTRP8	PREUCALC
PCRPS11	PCRPS18	PILOTRP9	PRINTFIL
PCRPS12	PCRPS19	PILOTR14	PRINTOFF
PCRPS13	PCRPS20	PILOTR15	PRNDEST1
PCRPS14	PCRPS21	PILOTR16	PRNDEST2
PCRPS15	PCRPS22	PILOTR17	PROCESS
PCRPS16	PCRPS23	PILOTR18	PROCESS2
PCRPS17	PCRPS24	PILOTR19	PROCTEM

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

RCRIS System Technical Guide

PROCTEM2	UPDINST4
PROCWAIT	UPDINST5
PROFCNED	UPDTCONT
PROFCOMP	UPDTHOLD
PROFEXTR	UPDTHOL2
PROFFREE	UPDTMOU
PROFILEA	UTLDREST
PROFILEB	UTRBFIL
PROFILEC	UTULBKUP
PROFILEE	*UTUPUPTB
PROFILEF	
PROFILEG	
PROFILEL	
PROFILEM	
PROFILEP	
PROFILEQ	
PROFILES	
PROFIET	
PROFILEU	
PROFILSG	
PROFILSU	
PROFINST	
PRORCRIS	
PUNIT	
*RCRA	
RCRADBUG	
RCRADCRP	
RCRISTAL	
RCRISTA2	
REBUILD	
RECCONT	
REC2CONT	
RLOAD	
RUNFIX	
SCAN	
SORTINDX	
SUREBILD	
TEDPROF	
TTSVFLE	
UNIV1REP	
UNIV2REP	
UNIV3REP	
UNIV4REP	
UNIV5REP	
UNIV6REP	
UPDAREA	
UPDCARTE	
UPDCOMME	
UPDEVENT	
UPDINST2	
UPDINST3	

Explanation of member prefixes:

- # Member deleted in this release
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RCRS.RCRIS.FMU

--MEMBERS--

*CAWINDOW
*CMWINDOW
CNMUMAIN

DAWINDOW
*DBWINDOW
FCMUNARR
FMMURPTS
FMWINDOW

MRMUMAIM
MRMUMAIN
MRMUMAIR
MRMUMAIS
*PMWINDOW

*RCRA
RCRIS
REGMENU

RCRS.RCRIS.MSGS

--MEMBERS--

CCUMS01

MSG00
PREP00
RCRP00

RCRS00
SUMSG01
TSTDB01

RCRS.RCRIS.PANELS

--MEMBERS--

BATCHRPT
BATCHRP1
BATCHRP2
BATCHRP3
COPYUSUP
FFREPDEL
FILETRAN
FORMINFO
*GDRDOCS
GDRMAIN
GDRSUMC
GDRUSER
GDR00001
GDR00002
GDR10002
GDR50001
INSTALL
ISDBMAIN
LABFORMA
LABFORMS
MRCYPART
MRDBUT12
MREXHARD
MREXTRA2
MRFFUTIL
MRMERGE2
MRMERGE3
MRMERGE5
MRMXTRA2
MRPOP1
MRPOP2
MRSTCYCLE

MRSTDELS
MRUPDAT2
MRXTRCT
PANALLRG
PANALLST
*PANINSTH
PANINST0
PANINST1
PANINST2
PANINST3
PANINST4
PANINST5
PANINST6
PANINST7
PANINST8
PANINST9
PANRGEXH
PANRGEX0
PANRGEX1
PANRGEX2
PANRGEX3
PANRGEX4
PANRGEX5
PANRGEX6
PANRGEX7
PANRGEX8
PANRGEX9
PANRGMGH
PANRGMG0
PANRGMG1
PANRGMG2
PANRGMG3
PANRGMG4
PANRGMG5

PANRGMG6
PANRGMG7
PANRGMG8
PANRGMG9
PANRGUPH
PANRGUP0
PANRGUP1
PANRGUP2
PANRGUP3
PANRGUP4
PANRGUP5
PANRGUP6
PANRGUP7
PANRGUP8
PANRGUP9
PREPDISP
PREPINPT
PREPKEEP
PREPUNS
PREP0001
PREP1000
PREP1100
PREP1101
PREP1102
PREP2000
PREP2100
PREP3000
PREP3100
PREP4000
PREP4001
PREP4100
PREP5000
PREP5001
PREP5100

PREP6000
PREP7000
PREP7100
PREP7200
PREP7300
PREP7400
PREP7500
PRNDESTF
PRNDESTM
PRNDESTO
PRNDESTS
PROMPTBO
RCRACT
RCRDOCS
RCRMAIN
RCRSACCC
RCRSACCD
RCRSACCG
RCRSACCN
RCRSACCR
RCRSACCT
RCRSMAN
RCRSPRTO
RCRSXVER
RCRUSER
RCR00001
RCR00002
RCR10002
RCR50001
*SELECTDB
SUMAIN
SUPRO
SUPRO1
SUSTATUS

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release

RCRIS System Technical Guide

SUSTAT1
TSTDBPNL

UTIL

RCRS.RCRIS.SKELS

--MEMBERS--

ANINTRO
#BATCHRPT
*BATCHRP1
*BATCHRP2
BATCHRP3
BATUCALC
*CARPF001
*CARP0005
*CARP0006
*CARP0007
CARSARCH
DSNFORM
GDCMDBA
GDCNUG
GDCONVRT

GDCQVK
GDCRPT
GDCST
GDCTCH
GDDED
GDGDE
GDHWDED
GDJCLJES
GDJCLTOP
GDMDBA
GDPSUDO
GDQUICK
GDRCDED
GDRCDEDC
GDREPORT
GDSNFORM
GDSTART

GDSUMCHG
GDTRN
GDUSER
*HIRPF001
*HIRPF002
*HIRPF003
*INSTALL
JCLJES
JCLTOP
LISTDED
MBACKUP
MRCRGDG
*MREDPROG
*MREXTRA2
*MRPRECK
MRRCGDG
MRREBILD

MRRRGDG
*MRSTDELS
*MRUPDAT2
**NTISTAPE
*PCRPOMSE
*PCRPSMS
*PCRPPSTAR
RCRSTAR
RCRTPCCG
RCRTPCFL
RCRTPLCG
RCRTPFL
RCRXMTG
RCRXMTFL

RCRS.RCRIS.TABLES

--MEMBERS--

MRSTCYLE
PINST

RCRS.RCRIS.TRF

--MEMBERS--

*CAWINDOW
*CMWINDOW
CNMUMAIN

*DAWINDOW
DEWINDOW
FCMUNARR
FMMURPTS
FMWINDOW

MRMUMAIM
MRMUMAIN
MRMUMAIR
MRMUMAIS
PMMUSPMS

*PMWINDOW
*RCRA
*REGMENU

Explanation of member prefixes:

- # Member deleted in this release
- ** Member added in this release
- * Member changed in this release



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APPENDIX G INSTALL, RCRIS, AND MERGPRO CLISTS

```
/******  
/* PROGRAM NAME: 'XXXX.RCRIS.CLIST(INSTALL)'  
/* DESCRIPTION: Coordinates installation/reinstallation of RCRIS system  
/* PROGRAMMER: GSC/ZOJ  
/* DATE CREATED: 03/28/91  
/* LAST UPDATED:  
/* CALLED BY: none.  
/* CALLS:  
/* COMMENTS: This program is the top level CLIST for the RCRIS  
/* installation/reinstallation utility. It prompts the  
/* user for a password, checks that the user account is  
/* valid.  
/* The program will operate in one of three configurations  
/* depending on the account that the user logged on under.  
/* 1. If the user account (&ACCT) matches &PROG, then  
/* two options are presented:  
/* A. Install of next release  
/* B. Install of Production software  
/* 2. If the user account (&ACCT) matches &TEST or &DVLP  
/* then three options are available:  
/* A. Compile into TEST or PRODUCTION (depends on &ACCT  
/* B. Perform database maintenance in TEST or PROD.  
/* 3. If the account does not match &PROG, &TEST, or &DVLP  
/* Perform database maintenance only  
/******  
PROC 0 FOCVER(.)  
  
CONTROL END(ENDO) MAIN NOLIST NOMSG  
/*CONTROL END(ENDO) MAIN LIST MSG SYMLIST CONLIST  
  
GLOBAL &ACCT &B &C &D &E &F &G &H &I &J &K &L &MODE +  
      &TDSCHECK &TPRINTOF &TCLEAR &TPMDISK &TWKDISK +  
      &TFOCACNT &TFDSN &TACTRANG &TSPCMGHT &TFLDEARC +  
      &TLINEDIT &FOCVER1 &PROG &DVLP &TEST &TABLES &REGTEST  
  
ATTN GOTO QUIT  
  
/* --- Set up default values for all global command substitution parms.  
  
SET &PROG = &STR(KHDB)  
SET &TEST = &STR(RCRT)  
SET &DVLP = &STR(RCRD)  
SET &TABLES = &STR(KHDB)  
  
SET &TDSCHECK = &STR(DSCHECK)  
SET &TPRINTOF = &STR(PRINTOFF)  
SET &TCLEAR = &STR(CLR3270)  
SET &TPMDISK = &STR(DISK)  
SET &TWKDISK = &STR(DISK)  
SET &TFOCACNT = &STR(SYS2)  
SET &TFDSN = &STR(FDSN)  
SET &TACTRANG = &STR(4:7)  
SET &TSPCMGHT = &STR($SM)  
SET &TFLDEARC = &STR(HRECALL)  
SET &TLINEDIT = &STR(EDIT)  
  
/* --- Ensure that user account prefix is valid and get group acct ID
```

```

IF &STR(&ACCT) EQ &STR( ) THEN DO
  IF &LENGTH(&STR(&SYSPREF)) EQ 4 THEN +
    SET &ACCT = &STR(&SYSPREF)
  ELSE IF &LENGTH(&STR(&SYSPREF)) EQ 7 THEN +
    SET &ACCT = &SUBSTR(&TACTRANG,&SYSPREF)
  ELSE DO
    WRITE
    WRITE
    WRITE *** ACCOUNT PREFIX <&SYSPREF> IS INVALID &STR(--)+
    PLEASE CORRECT AND RERUN ***
  EXIT
ENDDO
ENDDO
/* --- SET FOCUS VERSION NUMBER
IF &FOCVER ^= &STR( ) THEN +
  SET &FOCVER = &STR(&FOCVER..)

SET &FOCVER1 = &STR(&FOCVER)

SET &MODE = &STR(P)
/* --- Prompt for mode if group account is &PROG, &TEST, &DVLP, or KHDB.
/* --- Otherwise default to P (Production).

IF &STR(&ACCT) EQ &STR(&TEST) +
OR &STR(&ACCT) EQ &STR(&DVLP) +
THEN DO
  GETMODE: +
  &TCLEAR
  WRITENR      ENTER MODE (P)RODUCTION, (T)EST OR (D)EVELOPMENT OR +
  (Q)UIT :
  READ &MODE
  IF &MODE NE &STR(P) AND &MODE NE &STR(T) AND &MODE NE &STR(D) AND +
  &MODE NE &STR(Q) THEN DO
    WRITE
    WRITE INVALID VALUE... PRESS ENTER TO CONTINUE > &STR( )
    READ &DUMMY
    GOTO GETMODE
  ENDO
  IF &MODE EQ &STR(Q) THEN GOTO QUIT99
ENDDO

/* --- Read in the system version information and
ALLOC DD(RCRVERDT) DS('&PROG..RCRIS.VERSION.RELDATE') SHR
OPENFILE RCRVERDT INPUT
GETFILE RCRVERDT
SET &VERDATE = &STR(&RCRVERDT)
SET &CURRVER = &STR(&SUBSTR(1:5,&VERDATE))
CLOSEFILE RCRVERDT

SET &XVER = &STR(XXXX)

&TFDSN  SYSPROC  PROCSAVE NOW
&TFDSN  ISPLIB  POSNSAVE NOW
&TFDSN  ISPLIB  SDSNSAVE NOW
&TFDSN  ISPTLIB TDSNSAVE NOW
&TFDSN  ISPLIB  MDSNSAVE NOW

IF &SYSDSN(TABLES) EQ OK THEN +
  SET &TBLS = &STR(TABLES)
ELSE SET &TBLS = &STR( )

```

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```
SELECT (&MODE)
  WHEN (P) ALLOC DD(SYSPROC) DS(
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (T) ALLOC DD(SYSPROC) DS(' &TEST..RCRIS.CLIST' +
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (D) ALLOC DD(SYSPROC) DS(' &DVLP..RCRIS.CLIST' +
    ' &TEST..RCRIS.CLIST' +
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
ENDDO

/* --- CALL ISPF LIBDEF TO ALLOCATE THE PANELS AND MESSAGE FILES.

SELECT (&MODE)
  WHEN (P) DO
    ALLOC DD(ISPPLIB) DS(
      ' &PROG..RCRIS.PANELS' +
      &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPSLIB) DS(
      ' &PROG..RCRIS.SKELS' +
      &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS
      ' &PROG..RCRIS.TABLES' +
      &TDSNSAVE) SHR REUSE
    ALLOC DD(ISPMLIB) DS(
      ' &PROG..RCRIS.MSGS' +
      &MDSNSAVE) SHR REUSE
  ENDO
  WHEN (T) DO
    ALLOC DD(ISPPLIB) DS(' &TEST..RCRIS.PANELS' +
      ' &PROG..RCRIS.PANELS' +
      &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPSLIB) DS(' &TEST..RCRIS.SKELS' +
      ' &PROG..RCRIS.SKELS' +
      &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS
      ' &TEST..RCRIS.TABLES' +
      ' &PROG..RCRIS.TABLES' +
      &TDSNSAVE) SHR REUSE
    ALLOC DD(ISPMLIB) DS(' &TEST..RCRIS.MSGS' +
      ' &PROG..RCRIS.MSGS' +
      &MDSNSAVE) SHR REUSE
  ENDO
  WHEN (D) DO
    ALLOC DD(ISPPLIB) DS(' &DVLP..RCRIS.PANELS' +
      ' &TEST..RCRIS.PANELS' +
      ' &PROG..RCRIS.PANELS' +
      &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPSLIB) DS(' &DVLP..RCRIS.SKELS' +
      ' &TEST..RCRIS.SKELS' +
      ' &PROG..RCRIS.SKELS' +
      &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS
      ' &DVLP..RCRIS.TABLES' +
      ' &TEST..RCRIS.TABLES' +
      ' &PROG..RCRIS.TABLES' +
      &TDSNSAVE) SHR REUSE
    ALLOC DD(ISPMLIB) DS(' &DVLP..RCRIS.MSGS' +
      ' &TEST..RCRIS.MSGS' +
      ' &PROG..RCRIS.MSGS' +
      &MDSNSAVE) SHR REUSE
  ENDO
```

```

END0 /* SELECT

/* --- create storage for panel values

IF &SYSDSN(TABLES(REBUILT2)) NE OK THEN +
  ISPSTART CMD(%CREATET2)

ISPSTART CMD(%RCRSXVER &VERDATE +
  &PROG &DVLP &TEST &MODE +
  &TACTRANG &TPMDISK &TWKDISK &TFOCACNT &FOCVER &TPRINTOF &TFDSN)
IF &MODE NE &STR(P) THEN DO
  OPENFILE RCRSXVER INPUT
  GETFILE RCRSXVER
  SET &VERDATE = &SUBSTR(1:16,&RCRSXVER)
  SET &CURRVER = &SUBSTR(1:5,&RCRSXVER)
  CLOSFILE RCRSXVER
  FREE DD(RCRSXVER)
END0

INSTMENU: +
SELECT
/*WHEN (&ACCT = &PROG) DO
  WHEN (&ACCT = XXXX) DO
    SET &VAR = &STR( )

&TCLEAR
WRITE *****
*****
WRITE *
R C R I S
*
WRITE *
Environmental Protection Agency
DATE: &SYSDATE *
WRITE *
Version &VERDATE
TIME: &SYSTIME *
WRITE *****
*****
WRITE
Production &PROG Software
WRITE
Installation Main Menu
WRITE
WRITE
1. Install Production Software and Compile
WRITE
2. Compile &PROG Software
WRITE
3. Exit Installation Main Menu
WRITE
Enter Selection >>
WRITENR
READ &VAR

SELECT (&VAR)
  WHEN (1) DO
    ALLOC DDNAME(RCRVERDT) OLD REUSE +
      DSNAME('&PROG..RCRIS.VERSION.RELDATE')
    OPENFILE RCRVERDT OUTPUT
    SET &RCRVERDT = &STR(&VERDATE)
    PUTFILE RCRVERDT
    SET &RCRVERDT = &STR(NONE)
    PUTFILE RCRVERDT
    CLOSFILE RCRVERDT
    %ISUPFOCI &PROG &PROG &DVLP &TEST &TABLES +
      &VERDATE &TWKDISK &TFOCACNT &MODE &FOCVER
    %PROGCOPY
    %PROGCOMP
    %COPYCOMP
END0

```

11/92

```

ALLOC DDNAME(ISPSLIB) DSNNAME(&SDSNSAVE) SHR REUSE
ALLOC DDNAME(ISPTLIB) DSNNAME(&TDSNSAVE) SHR REUSE
ALLOC DDNAME(ISPHLIB) DSNNAME(&MDSNSAVE) SHR REUSE

```

```

QUIT99: +
&TCLEAR
WRITE

```

```

/*****
/* PROGRAM NAME: RCRIS
/* DESCRIPTION: RCRIS MAIN MENU
/* PROGRAMMER: GSC
/*
/* DATE WRITTEN: 02/28/91 KW - Rewrite with new logic
/* DATE CHANGED: 03/22/91 KW - Removed UNIT() from shared data sets
/*               04/05/91 KW - Add FOCUS version
/*               04/17/91 KW - FREE ALL on exit
/*               04/23/91 RHE - Removed code for OFFLINE2. (#110052)
/*               04/25/91 KW - Remove FOCXECI
/*               06/05/91 RW - Added SU logic
/*               08/22/91 RHE - Added CLEAR for opening screen
/*               (CPMS #133693) to eliminate pressing <ENTER>
/*                           ALLOCate datasets outside of SU machine
/*                           when SU is up (for reports)
/*                           Pass first 4 chars of &DBPROG as first
/*                           parm to SUMODE instead of &ACCT
/*                           Use return code from SUMODE to select
/*                           proper member to ALLOC to DD PROFILE
/*               09/10/91 JED - Added main FOCCOMP to concatenation string
/*               09/27/91 JZ - Removed next release
/*               ** 02/05/92 RHE - FOC SORT, FOCSTACK, HOLD, HOLDMAST,
/*                           SAVE allocated as temp work files.
/*               ** 06/17/92 WDM - Changed HOLD back to permanent dataset.
/*                           regions 2 and 3 depend on FOCUS.OFFLINE
/*                           and HOLD being permanent datasets.
/*                           Added "DEL HOLD" after
/*                           "DEL FOCUS.OFFLINE"
/*               - Added 'WPER' to &MODE select list.
/*(CPMS #144353) 03/12/92 RHE - Added Alerts function.
/*               04/20/92 ZOJ - Added SU and single user message.
/*(CPMS #144353) 05/28/92 RHE - Pass parms &MODE &PROG &TEST &DVLP
/*                           to ALERTS CLIST.
/*(CPMS #G00013) 06/01/92 RHE - Add DDnames IDHOLD, IDHOLD2
/*                           to FREE list at end of CLIST.
/*               - Make 'NOLIST' the default value for the
/*               &LIST keyword parm. This avoids problems
/*               when &LIST keyword is not defined and is
/*               passed to a CLIST sub program.
/*               - Add &LIST() as a parm to ALERTS CLIST.
/*(CPMS #187983) 07/19/92 LIT - Change &TCLEAR value from CLR3270 to
/*                           KLEAR. Trial for regions having hang
/*                           problems (1,7,8).
/*(CPMS #      ) 08/03/92 RHE - Add parm &TCLEAR to list which
/*                           is passed to ALERTS CLIST
/*(CPMS #187026) 09/10/92 WFP - Change DSN from &TABLES to &DBPROG
/*                           for PSTATDES
/*(CPMS #157062) 09/28/92 SK - Add errfile.data allocation
/*               10/02/92 sbm - Change to &TCLEAR = &STR(KLEAR)
/* (not working with TSOEXEC)
/* CALLED FROM: NONE, MERGPRO
/* CALLS: RCRSMAIN
/*****
/*
PROC 0 CALLED() MODE() FOCVER(.) LIST(NOLIST)

```


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```
CONTROL MAIN END(ENDO) NOFLUSH NOMSG
```

```
IF &STR(&LIST) EQ LIST THEN +
  CONTROL MSG LIST SYMLIST CONLIST
```

```
ATTN GOTO QFREE
```

```
GLOBAL &A &B &C &D &E &F &G &H &I &J &K &L &M +
  &TDSCHECK &TPRINTOF &TCLEAR &TPMDISK &TWKDISK +
  &TFOCACNT &TFDSN &TACTRANG &TSPCMGHT &TFLDEARC +
  &TLINEDIT &Y &Z &PROG &DVLP &TEST
```

```
/* --- assign production, development and test accounts
```

```
SET &PROG = &STR(KHDB)
SET &DVLP = &STR(RCRD)
SET &TEST = &STR(RCRT)
SET &TABLES = &STR(KHDB)
```

```
/* --- skip clist allocations if called from MERGPRO
```

```
IF &STR(&CALLED) EQ MERGPRO THEN DO
  SET &VERDATE = &STR(&D)
  GOTO CMERGPRO
ENDO
```

```
/* --- Set FOCUS version number.
```

```
IF &FOCVER NE &STR(.) THEN +
  SET &FOCVER = &STR(&FOCVER..)
```

```
/* --- Set up default values for all global command substitution parms.
```

```
SET &TDSCHECK = &STR(DSCHECK)
SET &TPRINTOF = &STR(PRINTOFF)
SET &TCLEAR = &STR(KLEAR)
SET &TPMDISK = &STR(DISK)
SET &TWKDISK = &STR(DISK)
SET &TFOCACNT = &STR(SYS2)
SET &TFDSN = &STR(FDSN)
SET &TACTRANG = &STR(4:7)
SET &TSPCMGHT = &STR($SM)
SET &TFLDEARC = &STR(WRECALL)
SET &TLINEDIT = &STR(EDIT)
```

```
IF &LENGTH(&SYSPREF) NE 7 THEN DO
  &TCLEAR
  WRITE INVALID SYSPREF: &SYSPREF, CALL USER SUPPORT
  GOTO QUIT99
ENDO
```

```
SET &MODE = &STR(P)
```

```
/* --- RCRIS welcome screen
```

```
WELCOME: +
&TCLEAR
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE      RRRRRR      CCCCCC      RRRRRR      -
        IIII      SSSSSS
WRITE      RR      RR      CC      RR      RR      -
```

```

WRITE      II      SS      SS      CC      RR      RR      -
      II      SS      S      CC      RR      RRR      -
WRITE      II      SS      RRRRRRRR      CC      RRRRRRRR      -
      II      SSSSSSS      CC      RR      RR      -
WRITE      II      RR      RR      CC      RR      RR      -
      II      S      SS      CC      RR      RR      -
WRITE      II      RR      S      RR      CC      RR      RR      -
      II      SS      SS      RR      CCCCCC      RR      RR      -
WRITE      IIII      SSSSSSS
WRITE
WRITE
WRITE
WRITE
WRITE
      RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM

```

```

IF &FOCVER NE &STR(.) THEN +
  WRITE      (FOCUS VERSION: &FOCVER)
ELSE +
  WRITE

WRITE

IF &SUBSTR(4:6,&SYSPREF) EQ &STR(RCR) OR +
  &SUBSTR(4:7,&SYSPREF) EQ &STR(WPER) THEN DO
  WRITENR      ENTER MODE (P)RODUCTION, (T)EST, +
      (D)EVELOPMENT OR (Q)UIT :
  READ &MODE

  IF &STR(&MODE) EQ Q THEN +
    GOTO QUIT99
  ELSE IF &STR(&MODE) NE P AND &STR(&MODE) NE T AND +
    &STR(&MODE) NE D THEN DO
    WRITE
    WRITENR      INVALID VALUE, PRESS <ENTER> TO CONTINUE
    READ
    GOTO WELCOME
  ENDO

ENDO

```

```

ALLOC DDNAME(RCRVERDT) DSNAME('&PROG..RCRIS.VERSION.RELDATE') SHR REUSE

```

```

OPENFILE RCRVERDT INPUT
  GETFILE RCRVERDT
  SET &VERDATE = &STR(&RCRVERDT)
  GETFILE RCRVERDT
  SET &NVERSION = &STR(&RCRVERDT)
CLOSEFILE RCRVERDT

```

```

IF &STR(&NVERSION) NE NONE THEN +
  SET &XVER = &STR(V)+
    &SUBSTR(1:1,&NVERSION)+
    &SUBSTR(3:3,&NVERSION)+
    &SUBSTR(5:5,&NVERSION).
ELSE +
  SET &XVER = &STR(XXXX)

```

```

&TFDSN  SYSPROC,PROCSAVE,NOW
&TFDSN  ISPLIB,POSNSAVE,NOW

```

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```
&TFDSN ISPLIB,SDSNSAVE,NOW
&TFDSN ISPTLIB,TDNSAVE,NOW
&TFDSN ISPMLIB,MDSNSAVE,NOW
```

```
IF &SYSDSN(TABLES) EQ OK THEN +
  SET &TBLS = TABLES
ELSE +
  SET &TBLS = &STR( )
```

```
SELECT (&MODE)
  WHEN (P) ALLOC DDNAME(SYSPROC) DSNAME('&PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (T) ALLOC DDNAME(SYSPROC) DSNAME('&TEST..RCRIS.CLIST' +
    '&PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (D) ALLOC DDNAME(SYSPROC) DSNAME('&DVP..RCRIS.CLIST' +
    '&TEST..RCRIS.CLIST' +
    '&PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
```

END0

/* --- Call ISPF LIBDEF to allocate the Panels and Message files.

```
SELECT (&MODE)
  WHEN (P) DO
    ALLOC DDNAME(ISPPLIB) DSNAME('&PROG..RCRIS.PANELS' +
      &PDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPSLIB) DSNAME('&PROG..RCRIS.SKELS' +
      &SDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPTLIB) DSNAME(&TBLS
      '&PROG..RCRIS.TABLES' +
      &TDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPMLIB) DSNAME('&PROG..RCRIS.MSGS' +
      &MDSNSAVE) +
      SHR REUSE
```

END0

```
  WHEN (T) DO
    ALLOC DDNAME(ISPPLIB) DSNAME('&TEST..RCRIS.PANELS' +
      '&PROG..RCRIS.PANELS' +
      &PDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPSLIB) DSNAME('&TEST..RCRIS.SKELS' +
      '&PROG..RCRIS.SKELS' +
      &SDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPTLIB) DSNAME(&TBLS
      '&TEST..RCRIS.TABLES' +
      '&PROG..RCRIS.TABLES' +
      &TDNSAVE) +
      SHR REUSE
    ALLOC DDNAME(ISPMLIB) DSNAME('&TEST..RCRIS.MSGS' +
      '&PROG..RCRIS.MSGS' +
      &MDSNSAVE) +
      SHR REUSE
```

END0

```
  WHEN (D) DO
    ALLOC DDNAME(ISPPLIB) DSNAME('&DVP..RCRIS.PANELS' +
      '&TEST..RCRIS.PANELS' +
      '&PROG..RCRIS.PANELS' +
```

```

                                &POSNSAVE)      +
                                SHR REUSE
        ALLOC DDNAME(ISPSLIB) DSNAME('&DVLP..RCRIS.SKELS' +
                                '&TEST..RCRIS.SKELS' +
                                '&PROG..RCRIS.SKELS' +
                                &SDSNSAVE)      +
                                SHR REUSE
        ALLOC DDNAME(ISPTLIB) DSNAME('&TBLS' +
                                '&DVLP..RCRIS.TABLES' +
                                '&TEST..RCRIS.TABLES' +
                                '&PROG..RCRIS.TABLES' +
                                &TDSNSAVE)      +
                                SHR REUSE
        ALLOC DDNAME(ISPHLIB) DSNAME('&DVLP..RCRIS.MSGS' +
                                '&TEST..RCRIS.MSGS' +
                                '&PROG..RCRIS.MSGS' +
                                &MDSNSAVE)      +
                                SHR REUSE

        ENDO
    ENDO /* select

/* --- Display the RCRIS system Implementor Alerts.

ISPSTART CMD(%ALERTS &MODE &DVLP &TEST &PROG &TCLEAR LIST(&LIST))

ISPSTART CMD(%RCRSXVER &VERDATE &PROG &DVLP &TEST &MODE +
            &TACTRANG &TPMDISK &TWKDISK &TFOCACNT &FOCVER +
            &TPRINTOF &TFDSN)

IF &MODE NE P THEN DO
    OPENFILE RCRSXVER INPUT
    GETFILE RCRSXVER
    SET &VERDATE = &SUBSTR(1:16,&RCRSXVER)
    CLOSFILE RCRSXVER
    FREE DDNAME(RCRSXVER)
END

/* --- Create storage for panel values.

IF &SYSDSN(TABLES(RCRSMERG)) NE OK THEN DO
    &TCLEAR
    ISPSTART CMD(%CREATETB)
END

/* --- Allocate user PDS's.

%RCRSUSER

/* --- &VERDATE contains blanks - retrieves as two parameters.

CHMERGPRO: +
&TCLEAR
/* WRITE
ISPSTART CMD(%RCRSMMAIN &VERDATE &PROG &DVLP &TEST &MODE +
            &TACTRANG &TPMDISK &TWKDISK &TFOCACNT &FOCVER &TPRINTOF)

&TFDSN RCRVERDT,XVERDT,NOW
IF &XVERDT NE &STR( ) THEN +
    FREE DDNAME(RCRVERDT)
ELSE +
    SET &XVER = &STR(XXXX)

&TFDSN ACC,XACCT,NOW
IF &XACCT EQ &STR( ) THEN +

```

```
GOTO QUIT

&TCLEAR
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
```

WELCOME TO R C R I S

FILES ARE BEING ALLOCATED, PLEASE STAND BY . . .

```

OPENFILE ACC INPUT
GETFILE ACC
    SET &DBPROG = &SUBSTR(17:24,&ACC)
    SET &DBACCT4 = &SUBSTR(17:20,&ACC)
    SET &IMPL = &SUBSTR(6:8,&DBPROG)
    SET &NEXT = &SUBSTR(26:26,&ACC)
CLOSFILE ACC

SET &ACCT = &SUBSTR(4:7,&SYSPREF)

IF &LIST EQ &STR() THEN +
    SET &LIST = &STR(X)
XSNODE &DBACCT4 &IMPL &MODE &PROG &TEST &LIST
/*
/* --- allocate the correct FOCUS startup PROFILE
/* --- based on the return status from SUNODE
/*
/*      code      meaning      profile
/*      -----
/*      0         No SU       PROFILSG
/*      1         SU Up       PROFILSU
/*      99        *ATTN*      exit CLIST
/*
SET &RETN = &LASTCC
IF &RETN EQ 99 THEN                /* Interrupted by *ATTN* */ +
    GOTO QUIT99
ELSE IF &RETN EQ 1 THEN DO /* SU exists and is up */
    SET &PROFMEN = &STR(PROFILSU)
    WRITE                                S U      M O D E
END
ELSE DO                            /* No SU or SU not up */
    SET &PROFMEN = &STR(PROFILSG)
    WRITE                                S I N G L E   U S E R   M O D E
END

FREE DDNAME(OFFLINE) DSNAME(FOCUS.OFFLINE)
FREE ATTRLIST(AT1 AT2 AT3 AT4 F1 K32 MR1 MR2 MR3)

```

```

/*-----*/
/*      Set up attributes for allocations      */
/*-----*/

```

ATTR	AT1	BLKSIZE(3990)	LRECL(133)	DSORG(PS)	RECFM(F B)
ATTR	AT2	BLKSIZE(3120)	LRECL(80)	DSORG(PO)	RECFM(F B)
ATTR	AT3	BLKSIZE(4096)	LRECL(4096)	DSORG(PS)	RECFM(F)
ATTR	AT4	BLKSIZE(23440)	LRECL(80)	DSORG(PS)	RECFM(F B)
ATTR	F1	BLKSIZE(4096)	LRECL(4096)	DSORG(PS)	RECFM(F)
ATTR	K32	BLKSIZE(23472)	LRECL(48)	DSORG(PS)	RECFM(F B)
ATTR	MR1	BLKSIZE(3860)	LRECL(5)	DSORG(PS)	RECFM(F B)
ATTR	MR2	BLKSIZE(3857)	LRECL(7)	DSORG(PS)	RECFM(F B)
ATTR	MR3	BLKSIZE(23464)	LRECL(28)	DSORG(PS)	RECFM(F B)

```

/*****
/* Delete RCRIS.UNIVPASS.DATA - used for Universe Calculations */
*****/

DEL RCRIS.UNIVPASS.DATA
DEL FOCUS.OFFLINE
DEL HOLD

IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(&PROFMEM)') EQ OK +
  AND &MODE EQ D THEN +
  ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU
ELSE +
IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(&PROFMEM)') EQ OK +
  AND (&MODE EQ D OR &MODE EQ T) THEN +
  ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU
ELSE +
  ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU
/*
/* *** allocate errfile.data
/*
IF &SYSDSN('&DVLP..RCRIS.ERRFILE.DATA') EQ OK +
  AND &MODE EQ D THEN +
  ALLOC DDNAME(ERRFILE) DSNAME('&DVLP..RCRIS.ERRFILE.DATA') SHR REU
ELSE +
IF &SYSDSN('&TEST..RCRIS.ERRFILE.DATA') EQ OK +
  AND (&MODE EQ D OR &MODE EQ T) THEN +
  ALLOC DDNAME(ERRFILE) DSNAME('&TEST..RCRIS.ERRFILE.DATA') SHR REU
ELSE +
  ALLOC DDNAME(ERRFILE) DSNAME('&PROG..RCRIS.ERRFILE.DATA') SHR REU

SELECT (&MODE)
WHEN (P) DO
  ALLOC DDNAME(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
    '&PROG..RCRIS.FOCHSTER.DATA') +
    SHR REUSE
  ALLOC DDNAME(FMU) DSNAME('&ACCT..RCRIS.FMU.USER' +
    '&PROG..RCRIS.FMU') +
    SHR REUSE
  ALLOC DDNAME(TRF) DSNAME('&PROG..RCRIS.TRF') +
    SHR REUSE
  ALLOC DDNAME(FOCEXEC) DSNAME('&ACCT..RCRIS.FOCEXEC.USER' +
    '&PROG..RCRIS.MAIN.FOCEXEC.DATA' +
    '&PROG..RCRIS.HID.FOCEXEC.DATA' +
    '&PROG..RCRIS.PMT.FOCEXEC.DATA' +
    '&PROG..RCRIS.CME.FOCEXEC.DATA' +
    '&PROG..RCRIS.CA.FOCEXEC.DATA' +
    '&PROG..RCRIS.PMFMPDBA.FOCEXEC.DATA' +
    '&PROG..RCRIS.FOCEXEC.DATA') +
    SHR REUSE
  ALLOC DDNAME(FOCCOMP) DSNAME('&PROG..RCRIS.HID.FOCCOMP.DATA' +
    '&PROG..RCRIS.PMT.FOCCOMP.DATA' +
    '&PROG..RCRIS.CME.FOCCOMP.DATA' +
    '&PROG..RCRIS.CA.FOCCOMP.DATA' +
    '&PROG..RCRIS.PMFMPDBA.FOCCOMP.DATA' +
    '&PROG..RCRIS.FOCCOMP.DATA') +
    SHR REUSE

ENDS

WHEN (T) DO
  ALLOC DD(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
    '&TEST..RCRIS.FOCHSTER.DATA' +
    '&PROG..RCRIS.FOCHSTER.DATA') +
    SHR REUSE

```

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```

ALLOC DDNAME(FMU)      DSNAME('&ACCT..RCRIS.FMU.USER' +
                             '&TEST..RCRIS.FMU' +
                             '&PROG..RCRIS.FMU') +
                             SHR REUSE
ALLOC DDNAME(TRF)      DSNAME('&TEST..RCRIS.TRF' +
                             '&PROG..RCRIS.TRF') +
                             SHR REUSE
ALLOC DDNAME(FOCEXEC)  DSNAME('&TEST..RCRIS.FOCEXEC.DATA' +
                             '&ACCT..RCRIS.FOCEXEC.USER' +
                             '&PROG..RCRIS.MAIN.FOCEXEC.DATA' +
                             '&PROG..RCRIS.HID.FOCEXEC.DATA' +
                             '&PROG..RCRIS.PMT.FOCEXEC.DATA' +
                             '&PROG..RCRIS.CME.FOCEXEC.DATA' +
                             '&PROG..RCRIS.CA.FOCEXEC.DATA' +
                             '&PROG..RCRIS.PMFMPDBA.FOCEXEC.DATA' +
                             '&PROG..RCRIS.FOCEXEC.DATA') +
                             SHR REUSE
ALLOC DDNAME(FOCCOMP)  DSNAME('&TEST..RCRIS.FOCCOMP.DATA' +
                             '&PROG..RCRIS.HID.FOCCOMP.DATA' +
                             '&PROG..RCRIS.PMT.FOCCOMP.DATA' +
                             '&PROG..RCRIS.CME.FOCCOMP.DATA' +
                             '&PROG..RCRIS.CA.FOCCOMP.DATA' +
                             '&PROG..RCRIS.PMFMPDBA.FOCCOMP.DATA' +
                             '&PROG..RCRIS.FOCCOMP.DATA') +
                             SHR REUSE

ENDO

WHEN (D) DO
  ALLOC DDNAME(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
                              '&DVLP..RCRIS.FOCHSTER.DATA' +
                              '&TEST..RCRIS.FOCHSTER.DATA' +
                              '&PROG..RCRIS.FOCHSTER.DATA') +
                              SHR REUSE
  ALLOC DDNAME(FMU)     DSNAME('&ACCT..RCRIS.FMU.USER' +
                              '&DVLP..RCRIS.FMU' +
                              '&TEST..RCRIS.FMU' +
                              '&PROG..RCRIS.FMU') +
                              SHR REUSE
  ALLOC DDNAME(TRF)     DSNAME('&DVLP..RCRIS.TRF' +
                              '&TEST..RCRIS.TRF' +
                              '&PROG..RCRIS.TRF') +
                              SHR REUSE
  ALLOC DDNAME(FOCEXEC) DSNAME('&DVLP..RCRIS.FOCEXEC.DATA' +
                              '&ACCT..RCRIS.FOCEXEC.USER' +
                              '&TEST..RCRIS.FOCEXEC.DATA' +
                              '&PROG..RCRIS.MAIN.FOCEXEC.DATA' +
                              '&PROG..RCRIS.HID.FOCEXEC.DATA' +
                              '&PROG..RCRIS.PMT.FOCEXEC.DATA' +
                              '&PROG..RCRIS.CME.FOCEXEC.DATA' +
                              '&PROG..RCRIS.CA.FOCEXEC.DATA' +
                              '&PROG..RCRIS.PMFMPDBA.FOCEXEC.DATA' +
                              '&PROG..RCRIS.FOCEXEC.DATA') +
                              SHR REUSE
  ALLOC DDNAME(FOCCOMP) DSNAME('&DVLP..RCRIS.FOCCOMP.DATA' +
                              '&PROG..RCRIS.HID.FOCCOMP.DATA' +
                              '&PROG..RCRIS.PMT.FOCCOMP.DATA' +
                              '&PROG..RCRIS.CME.FOCCOMP.DATA' +
                              '&PROG..RCRIS.CA.FOCCOMP.DATA' +
                              '&PROG..RCRIS.PMFMPDBA.FOCCOMP.DATA' +
                              '&PROG..RCRIS.FOCCOMP.DATA') +
                              SHR REUSE

ENDO
/* select

```

```

SET CHECKDB = &SUBSTR(6:8,&DBPROG)
IF &CHECKDB EQ USO THEN DO
  ALLOC DD(HANDLER3) DSN('&DBPROG..RCRIS.HANDLER3.FOCUS') SHR REU
  ALLOC DD(HANDLER4) DSN('&DBPROG..RCRIS.HANDLER4.FOCUS') SHR REU
  ALLOC DD(HANDLER5) DSN('&DBPROG..RCRIS.HANDLER5.FOCUS') SHR REU
  ALLOC DD(HAND1B) DSN('&DBPROG..RCRIS.HAND1B.FOCUS') SHR REU

  SELECT (&MODE)
  WHEN (P) +
    ALLOC DDNAME(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
      'RCRO.RCRIS.FOCHSTER.DATA' +
      '&PROG..RCRIS.FOCHSTER.DATA') +
      SHR REUSE
  WHEN (T) +
    ALLOC DDNAME(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
      'RCRO.RCRIS.FOCHSTER.DATA' +
      '&TEST..RCRIS.FOCHSTER.DATA' +
      '&PROG..RCRIS.FOCHSTER.DATA') +
      SHR REUSE
  WHEN (D) +
    ALLOC DDNAME(MASTER) DSNAME('&ACCT..RCRIS.FOCHSTER.USER' +
      'RCRO.RCRIS.FOCHSTER.DATA' +
      '&DVL..RCRIS.FOCHSTER.DATA' +
      '&TEST..RCRIS.FOCHSTER.DATA' +
      '&PROG..RCRIS.FOCHSTER.DATA') +
      SHR REUSE

  ENDO /* select
END /* &checkdb eq 'uso'

  ALLOC DD(DBNAMES) DSNAME('&TABLES..RCRIS.DBNAMES.DATA') SHR REUSE
  ALLOC DD(HOLDMAST) USING(AT2) SPACE(10,10) CYLINDERS DIR(15) +
    UNIT(&TPMDISK) NEW DELETE REUSE
  ALLOC DD(OFFLINE) DSNAME(FOCUS.OFFLINE) USING(AT1) SPACE(30,20) +
    CYLINDERS UNIT(&TPMDISK) NEW CATALOG REUSE
  ALLOC DD(HOLD) DS(HOLD) SPACE(30,20) CYL REUSE UNIT(&TWKDISK) +
    NEW CATALOG
  ALLOC DD(SAVE) SPACE(30,20) CYL REUSE UNIT(&TWKDISK) NEW DELETE
  ALLOC DD(FOCSORT) SPACE(265,35) CYL REUSE UNIT(&TWKDISK) NEW DELETE
  ALLOC DD(FOCSTACK) SPACE(1,1) CYLINDERS REUSE UNIT(&TWKDISK)
  ALLOC DD(ERRORS) DS('&TFOCACNT..FOCUS&FOCVER.ERRORS.DATA') SHR REU
  ALLOC DD(USERLIB) DS('&TFOCACNT..FOCUS&FOCVER.FUSELIB.LOAD') SHR REU

  /*-----*/
  /* Allocate FOCUS user databases for RCRIS system */
  /*-----*/

  ALLOC DDNAME(AGNDES) DSNAME('&DBPROG..RCRIS.AGNDES.FOCUS') SHR REU
  ALLOC DDNAME(AREADES) DSNAME('&DBPROG..RCRIS.AREADES.FOCUS') SHR REU
  ALLOC DDNAME(CAAREA) DSNAME('&DBPROG..RCRIS.CAAREA.FOCUS') SHR REU
  ALLOC DDNAME(CACONST) DSNAME('&DBPROG..RCRIS.CACONST.FOCUS') SHR REU
  ALLOC DDNAME(CAINST) DSNAME('&DBPROG..RCRIS.CAINST.FOCUS') SHR REU
  ALLOC DDNAME(CENFOR) DSNAME('&DBPROG..RCRIS.CENFOR.FOCUS') SHR REU
  ALLOC DDNAME(CEEVAL) DSNAME('&DBPROG..RCRIS.CEEVAL.FOCUS') SHR REU
  ALLOC DDNAME(CETICK) DSNAME('&DBPROG..RCRIS.CETICK.FOCUS') SHR REU
  ALLOC DDNAME(CEVIOL) DSNAME('&DBPROG..RCRIS.CEVIOL.FOCUS') SHR REU
  ALLOC DDNAME(CMERR) DSNAME('&TABLES..RCRIS.CMERR.DATA') SHR REU
  ALLOC DDNAME(COMTMNT) DSNAME('&DBPROG..RCRIS.COMTMNT.FOCUS') SHR REU
  ALLOC DDNAME(CONSTCD) DSNAME('&DBPROG..RCRIS.CONSTCD.FOCUS') SHR REU
  ALLOC DDNAME(CONTROL) DSNAME('&DBPROG..RCRIS.CONTROL.FOCUS') SHR REU
  ALLOC DDNAME(EPATHRD) DSNAME('&DBPROG..RCRIS.EPATHRD.DATA') SHR REU
  ALLOC DDNAME(EREADES) DSNAME('&DBPROG..RCRIS.EREADES.FOCUS') SHR REU
  ALLOC DDNAME(ETEMPLAT) DSNAME('&DBPROG..RCRIS.ETEMPLAT.FOCUS') SHR REU
  ALLOC DDNAME(EVENT) DSNAME('&DBPROG..RCRIS.EVENT.FOCUS') SHR REU

```


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```

ALLOC DDNAME(GENIND) DSNNAME('&DBPROG..RCRIS.GENIND.DATA') SHR REU
ALLOC DDNAME(HANDLER1) DSNNAME('&DBPROG..RCRIS.HANDLER1.FOCUS') SHR REU
ALLOC DDNAME(HANDLER2) DSNNAME('&DBPROG..RCRIS.HANDLER2.FOCUS') SHR REU
ALLOC DDNAME(HCOUNTY) DSNNAME('&TABLES..RCRIS.HCOUNTY.FOCUS') SHR REU
ALLOC DDNAME(IORAUDIT) DSNNAME('&DBPROG..RCRIS.IORAUDIT.FOCUS') SHR REU
ALLOC DDNAME(IORTABLE) DSNNAME('&DBPROG..RCRIS.IORTABLE.FOCUS') SHR REU
ALLOC DDNAME(MERGE) DSNNAME('&DBPROG..RCRIS.MERGE.FOCUS') SHR REU
ALLOC DDNAME(MOUTABLE) DSNNAME('&DBPROG..RCRIS.MOUTABLE.FOCUS') SHR REU
ALLOC DDNAME(NAME) DSNNAME('&DBPROG..RCRIS.NAME.FOCUS') SHR REU
ALLOC DDNAME(OWNRTYPE) DSNNAME('&DBPROG..RCRIS.OWNRTYPE.DATA') SHR REU
ALLOC DDNAME(PERMPROJ) DSNNAME('&DBPROG..RCRIS.PERMPROJ.FOCUS') SHR REU
ALLOC DDNAME(PROCTYPE) DSNNAME('&DBPROG..RCRIS.PROCTYPE.FOCUS') SHR REU
ALLOC DDNAME(PESTATUS) DSNNAME('&DBPROG..RCRIS.PESTATUS.FOCUS') SHR REU
ALLOC DDNAME(PEVENT) DSNNAME('&DBPROG..RCRIS.PEVENT.FOCUS') SHR REU
ALLOC DDNAME(PMCOMMIT) DSNNAME('&DBPROG..RCRIS.PMCOMMIT.FOCUS') SHR REU
ALLOC DDNAME(PROCCODE) DSNNAME('&DBPROG..RCRIS.PROCCODE.FOCUS') SHR REU
ALLOC DDNAME(PSTATDES) DSNNAME('&DBPROG..RCRIS.PSTATDES.FOCUS') SHR REU
ALLOC DDNAME(PUNIT) DSNNAME('&DBPROG..RCRIS.PUNIT.FOCUS') SHR REU
ALLOC DDNAME(RCRADDSC) DSNNAME('&DBPROG..RCRIS.RCRADDSC.DATA') SHR REU
ALLOC DDNAME(RCRAGDSC) DSNNAME('&DBPROG..RCRIS.RCRAGDSC.DATA') SHR REU
ALLOC DDNAME(RCRASTAT) DSNNAME('&DBPROG..RCRIS.RCRASTAT.DATA') SHR REU
ALLOC DDNAME(RCRATDSC) DSNNAME('&DBPROG..RCRIS.RCRATDSC.DATA') SHR REU
ALLOC DDNAME(RCRVERDT) DSNNAME('&PROG..RCRIS.VERSION.RELDATE') SHR REU
ALLOC DDNAME(REGION) DSNNAME('&TABLES..RCRIS.REGION.DATA') SHR REU
ALLOC DDNAME(REMEDYCD) DSNNAME('&DBPROG..RCRIS.REMEDYCD.FOCUS') SHR REU
ALLOC DDNAME(RTYPOES) DSNNAME('&DBPROG..RCRIS.RTYPOES.FOCUS') SHR REU
ALLOC DDNAME(SECURITY) DSNNAME('&DBPROG..RCRIS.SECURITY.FOCUS') SHR REU
ALLOC DDNAME(SICCODE) DSNNAME('&TABLES..RCRIS.SICCODE.FOCUS') SHR REU
ALLOC DDNAME(SPECPROC) DSNNAME('&DBPROG..RCRIS.SPECPROC.FOCUS') SHR REU
ALLOC DDNAME(SPECUCOM) DSNNAME('&DBPROG..RCRIS.SPECUCOM.FOCUS') SHR REU
ALLOC DDNAME(SPEPECODE) DSNNAME('&DBPROG..RCRIS.SPEPECODE.FOCUS') SHR REU
ALLOC DDNAME(STATE) DSNNAME('&TABLES..RCRIS.STATE.DATA') SHR REU
ALLOC DDNAME(STATELST) DSNNAME('&DBPROG..RCRIS.STATELST.FOCUS') SHR REU
ALLOC DDNAME(SUMMARY) DSNNAME('&DBPROG..RCRIS.SUMMARY.FOCUS') SHR REU
ALLOC DDNAME(UCALC) DSNNAME('&DBPROG..RCRIS.UCALC.DATA') SHR REU
ALLOC DDNAME(UOMTYPE) DSNNAME('&DBPROG..RCRIS.UOMTYPE.FOCUS') SHR REU
ALLOC DDNAME(UPDTABLE) DSNNAME('&DBPROG..RCRIS.UPDTABLE.FOCUS') SHR REU
ALLOC DDNAME(WASTECODE) DSNNAME('&DBPROG..RCRIS.WASTECODE.FOCUS') SHR REU
ALLOC DDNAME(WUOMTYPE) DSNNAME('&DBPROG..RCRIS.WUOMTYPE.DATA') SHR REU

```

```

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

```

```

ALLOC DDNAME(DATIN) DSNNAME('&TABLES..RCRIS.MRLDIOR.DATA') SHR REU
ALLOC DDNAME(IORSTATE) DSNNAME('&TABLES..RCRIS.STATE2.DATA') SHR REU
ALLOC DDNAME(HBOYSNC) DSNNAME('&TABLES..HBOYSNC.SPMS') SHR REU
ALLOC DDNAME(DEFAULTS) DSNNAME('&DBPROG..RCRIS.PCRPSPDF.DATA') SHR REU
ALLOC DDNAME(PCRPSP92) DSNNAME('&DBPROG..RCRIS.PCRPSP92.DATA') SHR REU

```

```

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

```

```

ATTN OFF
CALL 'ATFOACNT..FOCUS&FOCVER.FOCLIB.LOAD(FOCUS)'

```

```

QFREE: +
&TCLEAR
WRITE

```

```

FREE DDNAME(HOLDMAST HOLD SAVE FOC SORT FOCSTACK) DELETE
FREE DDNAME(MASTER ERRORS USERLIB FOC COMP FMU TRF FOC EXEC RCRISPAR)
FREE DDNAME(ACC AGNDES CAINST CEVIOL ETEMPLAT HCOUNTY PERMPROJ PPARMS)

```

```

FREE DDNAME(SEcurity UOMTYPE ANOLD CEENFOR COMMTNNT MERGE DBNAMES)
FREE DDNAME(PERMTYPE PROCCODE SPECPROC UPOTABLE AREADES CEEVAL CONSTCD)
FREE DDNAME(EVENT MOUTABLE PESTATUS PUNIT SPECUOM CAAREA PSTATDES)
FREE DDNAME(HANDLER1 NAME PEVENT REMEDYCD SPEPECODE STATELST)
FREE DDNAME(WASTECD CACONST CETICK EREADES HANDLER2 PMCOMMIT)
FREE DDNAME(RTYPDES SUMMARY IORSTATE IORAUDIT DATAIN CHERR STATE)
FREE DDNAME(HBOYSNC IORTABLE ERRFILE CONTROL PROFILE)
FREE DDNAME(EPATHRD GENIND OWNRTYPE RCRADDSO RCRAGDSC RCRATSTAT RCRATDSC)
FREE DDNAME(REGION UCALC UJOMTYPE OFFLINE DEFAULTS SICCODE PCRPS92)
FREE DDNAME(HANDLER3 HANDLER4 HANDLER5 HAND1B)
FREE DDNAME(PARM1T PARM2 PARM3 PARM4IT IDHOLD IDHOLD2 RCODE DDFILEIN)
FREE DSNAME(FOCUS.OFFLINE)
FREE ATTRLIST(AT1 AT2 AT3 AT4 F1 K32 MR1 MR2 MR3 CMIDATTR PCIDATTR)

```

```
DELETE FOCUS.OFFLINE
```

```

&TCLEAR
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE
WRITE

```

```
***** R C R I S   SESSION ENDED *****
```

```
ALL FILES ALLOCATED DURING THIS SESSION ARE NOW FREED.
```

```

QUIT: +
IF &STR(&CALLED) NE MERGPRO THEN DO
  FREE DDNAME(RCRVERDT)
  ALLOC DDNAME(SYSPROC) DSNAME(&PROCSAVE) SHR REUSE
  ALLOC DDNAME(ISPPLIB) DSNAME(&PDSNSAVE) SHR REUSE
  ALLOC DDNAME(ISPSLIB) DSNAME(&SDSNSAVE) SHR REUSE
  ALLOC DDNAME(ISPTLIB) DSNAME(&TDSNSAVE) SHR REUSE
  ALLOC DDNAME(ISPMLIB) DSNAME(&MDSNSAVE) SHR REUSE
END

```

```

QUIT99: +
&TCLEAR
WRITE

```

```

/*****
/* PROGRAM NAME: MERGPRO
/* DESCRIPTION : MERGPRO MAIN MENU
/* PROGRAMMER : GSC
/* DATE WRITTEN: 02/28/91 KW - REWRITE WITH NEW LOGIC
/* DATE CHANGED:
/* CALLED FROM : NONE
/* CALLS : MRFFUTIL,MRDBUT12,MREXTRA2,MRPRECK,MRUPDAT2,RCRIS
*****/
PROC 0 FOCVER(.)
  CONTROL MAIN END(ENDO) NOMSG NOLIST NOCONLIST NOSYMLIST
ATTN GOTO QUIT

```

```

GLOBAL &A &B &C &D &E &F &G &H &I &J &K &L &M +
&TDSCHECK &TPRINTF &TCLEAR &TPMDISK &TWKDISK +
&TFOCACNT &TFDSN &TACTRANG &TSPCMGMT &TFLDEARC +
&TLINEDIT &Y &Z &PROG &DVLP &TEST

```

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```
/* ASSIGN PRODUCTION, DEVELOPMENT AND TEST ACCOUNTS
```

```
SET &PROG = &STR(KHDB)
SET &DVLP = &STR(RCRD)
SET &TEST = &STR(RCRT)
SET &TABLES = &STR(KHDB)
```

```
/* --- SET FOCUS VERSION NUMBER
IF &FOCVER ^= &STR(.) THEN +
    SET &FOCVER = &STR(&FOCVER..)
```

```
/* --- Set up default values for all global command substitution parms.
```

```
SET &TDSHECK = &STR(DSCHECK)
SET &TPRINTOF = &STR(PRINTOFF)
SET &TCLEAR = &STR(CLR3270)
SET &TPMDISK = &STR(DISK)
SET &TVMDISK = &STR(DISK)
SET &TFOCACHT = &STR(SYS2)
SET &TFDSN = &STR(FDSN)
SET &TACTRANG = &STR(4:7)
SET &TSPCMGMT = &STR($SM)
SET &TFLDEARC = &STR(HRECALL)
SET &TLINEDIT = &STR(EDIT)
```

```
IF &LENGTH(&SYSPREF) NE 7 THEN DO
    &TCLEAR
    WRITE INVALID SYSPREF: &SYSPREF, CALL USER SUPPORT
    GOTO QUIT99
END0
```

```
SET &MODE = &STR(P)
```

```
/* --- RCRIS WELCOME SCREEN
```

```
WELCOME: +
&TCLEAR
WRITE
WRITE
WRITE
WRITE
WRITE
    IIII      RRRRRR      CCCCCC      RRRRRR      -
    SSSSSS
WRITE      RR      RR      CC      RR      RR      -
    II      SS      SS
WRITE      RR      RR      CC      RR      RR      -
    II      SS      S
WRITE      RR      RR      CC      RR      RRR      -
    II      SS
WRITE      RRRRRRRR      CC      RRRRRRRR      -
    II      SSSSSS
WRITE      RR      RR      CC      RR      RR      -
    II      SS
WRITE      RR      RR      CC      RR      RR      -
    II      S      SS
WRITE      RR      RR      CC      RR      RR      -
    II      SS      SS
WRITE      RR      RR      CCCCCC      RR      RR      -
    IIII      SSSSSS
WRITE
WRITE
WRITE
WRITE
    RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
```

```

IF &FOCVER ^= &STR(.) THEN +
WRITE                                     (FOCUS VERSION: &FOCVER)
ELSE +
WRITE
WRITE

IF &SUBSTR(4:6,&SYSPREF) EQ &STR(RCR) THEN DO
WRITENR      ENTER MODE (P)RODUCTION, (T)EST, (D)EVELOPMENT OR +
(Q)UIT :
READ &MODE

  IF &MODE NE &STR(P) AND &MODE NE &STR(T) AND &MODE NE &STR(D) AND +
    &MODE NE &STR(Q) THEN DO
    WRITE
    WRITE      INVALID VALUE, PRESS ENTER TO CONTINUE
    READ &DUMMY
    GOTO WELCOME
  ENDO
  IF &MODE EQ &STR(Q) THEN GOTO QUIT99
END0

ALLOC DD(RCRVERDT) DS('&PROG..RCRIS.VERSION.RELDATE') SHR
OPENFILE RCRVERDT INPUT
GETFILE RCRVERDT
SET &VERDATE = &STR(&RCRVERDT)
GETFILE RCRVERDT
SET &NVERSION = &STR(&RCRVERDT)
CLOSEFILE RCRVERDT

SET &XVER = &STR(NONE)

&TFDSN  SYSPROC PROCSAVE NOW
&TFDSN  ISPLIB PDSNSAVE NOW
&TFDSN  ISPLIB SDSNSAVE NOW
&TFDSN  ISPTLIB TDSNSAVE NOW
&TFDSN  ISPLIB MDSNSAVE NOW
IF &SYSDSN(TABLES) EQ OK THEN +
  SET &TBLS = &STR(TABLES)
ELSE SET &TBLS = &STR( )

SELECT (&MODE)
  WHEN (P) ALLOC DD(SYSPROC) DS(
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (T) ALLOC DD(SYSPROC) DS(
    ' &TEST..RCRIS.CLIST' +
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
  WHEN (D) ALLOC DD(SYSPROC) DS(
    ' &DVLP..RCRIS.CLIST' +
    ' &TEST..RCRIS.CLIST' +
    ' &PROG..RCRIS.CLIST' +
    &PROCSAVE) SHR REUSE
END0

/* --- CALL ISPF LIBDEF TO ALLOCATE THE PANELS AND MESSAGE FILES.

SELECT (&MODE)
  WHEN (P) DO
    ALLOC DD(ISPLIB) DS(
      ' &PROG..RCRIS.PANELS' +
      &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPLIB) DS(
      ' &PROG..RCRIS.SKELS' +
      &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS

```

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```

                                '&PROG..RCRIS.TABLES' +
                                &TDSNSAVE) SHR REUSE
        ALLOC DD(ISPMLIB) DS(
                                '&PROG..RCRIS.MSGS' +
                                &MDSNSAVE) SHR REUSE
    ENDO
WHEN (T) DO
    ALLOC DD(ISPPLIB) DS('&TEST..RCRIS.PANELS' +
                        '&PROG..RCRIS.PANELS' +
                        &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPSLIB) DS('&TEST..RCRIS.SKELS' +
                        '&PROG..RCRIS.SKELS' +
                        &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS
                        '&TEST..RCRIS.TABLES' +
                        '&PROG..RCRIS.TABLES' +
                        &TDSNSAVE) SHR REUSE
    ALLOC DD(ISPMLIB) DS('&TEST..RCRIS.MSGS' +
                        '&PROG..RCRIS.MSGS' +
                        &MDSNSAVE) SHR REUSE
    ENDO
WHEN (D) DO
    ALLOC DD(ISPPLIB) DS('&DVLP..RCRIS.PANELS' +
                        '&TEST..RCRIS.PANELS' +
                        '&PROG..RCRIS.PANELS' +
                        &PDSNSAVE) SHR REUSE
    ALLOC DD(ISPSLIB) DS('&DVLP..RCRIS.SKELS' +
                        '&TEST..RCRIS.SKELS' +
                        '&PROG..RCRIS.SKELS' +
                        &SDSNSAVE) SHR REUSE
    ALLOC DD(ISPTLIB) DS( &TBLS
                        '&DVLP..RCRIS.TABLES' +
                        '&TEST..RCRIS.TABLES' +
                        '&PROG..RCRIS.TABLES' +
                        &TDSNSAVE) SHR REUSE
    ALLOC DD(ISPMLIB) DS('&DVLP..RCRIS.MSGS' +
                        '&TEST..RCRIS.MSGS' +
                        '&PROG..RCRIS.MSGS' +
                        &MDSNSAVE) SHR REUSE
    ENDO
ENDO /* SELECT

/* --- create storage for panel values
IF &SYSDSN(TABLES(REBUILT1)) NE OK THEN +
    ISPSTART CMD(%CREATETB)

/* --- prompt for new version and data for development and test
/* --- also writes out global variables to ispf profile
ISPSTART CMD(%RCRSXVER &VERDATE &PROG &DVLP &TEST &MODE +
            &TACTRANG &TPMDISK &TWKDISK &TFOCACNT &FOCVER &TPRINTOF +
            &TFDSN)
IF &MODE NE &STR(P) THEN DO
    OPENFILE RCRSXVER INPUT
    GETFILE RCRSXVER
    SET &VERDATE = &SUBSTR(1:16,&RCRSXVER)
    CLOSEFILE RCRSXVER
    FREE DD(RCRSXVER)
ENDO

SET &VAR = &STR( )

```



```

DO WHILE &VAR ^= 8

&TCLEAR
WRITE *****
*****
WRITE *                               R C R I S
*
WRITE *                               ENVIRONMENTAL PROTECTION AGENCY
DATE: &SYSDATE *
WRITE *                               VERSION &VERDATE
TIME: &SYSTIME *
WRITE *****
*****
WRITE
WRITE                               MERGE PROCESSING MAIN MENU
WRITE
WRITE
WRITE                               1. FLAT FILE UTILITY MENU
WRITE                               2. DATABASE UTILITY MENU
WRITE                               3. EXTRACT PROGRAMS
WRITE                               4. TRANSLATOR PRELOAD TEST
WRITE                               5. UPDATE PROGRAM
WRITE                               6. CALL RCRIS
WRITE                               7. STATE CYCLE
WRITE                               8. EXIT MERGE PROCESSING MAIN MENU
WRITE
WRITENR                               ENTER SELECTION >>
READ &VAR

SELECT (&VAR)
  WHEN (1)  ISPSTART CMD(XMRFFUTIL)
  WHEN (2)  ISPSTART CMD(XMRDBUT12)
  WHEN (3)  ISPSTART CMD(XMRXTRA2 MERGPRO PARM1 PARM2)
  WHEN (4)  ISPSTART CMD(XMRPRECK)
  WHEN (5)  ISPSTART CMD(XMRUPDAT2 MERGPRO PARM1)
  WHEN (7)  ISPSTART CMD(XMRCYCLE2)
  WHEN (6)  DO
    SET &D = &STR(&VERDATE)
    XRCRIS CALLED(MERGPRO) +
    MODE(&MODE) FOCVER(&FOCVER)
  ENDO
  WHEN (8)  GOTO QUIT
  OTHERWISE DO
    WRITE
    WRITE                               INVALID SELECTION, PRESS ENTER TO CONTINUE
    READ &DUMMY
  ENDO /* OTHERWISE
ENDO /* SELECT
ENDO /* DO-WHILE

QUIT: +
FREE DD(RCRVERDT)
ALLOC DDNAME(SYSPROC) DS(&PROCSAVE) SHR REUSE
ALLOC DDNAME(ISPPLIB) DS(&PDSNSAVE) SHR REUSE
ALLOC DDNAME(ISPSLIB) DS(&SDSNSAVE) SHR REUSE
ALLOC DDNAME(ISPTLIB) DS(&TDSNSAVE) SHR REUSE
ALLOC DDNAME(ISPMLIB) DS(&MDSNSAVE) SHR REUSE

QUIT99: +
&TCLEAR
WRITE

```

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APPENDIX H - PANEL DISPLAYS

BATCHRP1 ----- STRING(S) FOUND -----
50 ISPEXEC DISPLAY PANEL(BATCHRP1)
87 ISPEXEC DISPLAY PANEL(PRNDESTS)
137 ISPEXEC DISPLAY PANEL(FORMINFO)
146 ISPEXEC DISPLAY PANEL(LABFORMS)

BATCHRP3 ----- STRING(S) FOUND -----
46 ISPEXEC DISPLAY PANEL(BATCHRP3)

BATCHSUB ----- STRING(S) FOUND -----
79 ISPEXEC DISPLAY PANEL(UTIL)

CNESTARS ----- STRING(S) FOUND -----
162 ISPEXEC DISPLAY PANEL(CMEFY)
272 ISPEXEC DISPLAY PANEL(CNESTARS)
304 ISPEXEC DISPLAY PANEL(STARSJOB)

CNLDCARS ----- STRING(S) FOUND -----
31 ISPEXEC DISPLAY PANEL(RCRSMAIN)

CNLDCMEE ----- STRING(S) FOUND -----
60 ISPEXEC DISPLAY PANEL(RCRSMAIN)

CNLDHAND ----- STRING(S) FOUND -----
57 ISPEXEC DISPLAY PANEL(RCRSMAIN)

CNLDPERM ----- STRING(S) FOUND -----
57 ISPEXEC DISPLAY PANEL(RCRSMAIN)

COPYTBUP ----- STRING(S) FOUND -----
35 ISPEXEC DISPLAY PANEL(COPYUSUP)

COPYUSUP ----- STRING(S) FOUND -----
35 ISPEXEC DISPLAY PANEL(COPYUSUP)
61 ISPEXEC DISPLAY PANEL(SELECTDB)

FFALLOC ----- STRING(S) FOUND -----
29 ISPEXEC DISPLAY PANEL(RCRSACCT)

FFALLO2 ----- STRING(S) FOUND -----
27 ISPEXEC DISPLAY PANEL(RCRSACCT)

FFBACKUP ----- STRING(S) FOUND -----
23 ISPEXEC DISPLAY PANEL(RCRSACCT)


```

FFCOPY          ----- STRING(S) FOUND -----
    25  ISPEXEC DISPLAY PANEL(RCRSACCC)

FFCOPY1         ----- STRING(S) FOUND -----
    24  ISPEXEC DISPLAY PANEL(RCRSACCC)

FFDEL8KP        ----- STRING(S) FOUND -----
    26  ISPEXEC DISPLAY PANEL(RCRSACCT)

FFDELETE        ----- STRING(S) FOUND -----
    27  ISPEXEC DISPLAY PANEL(RCRSACCT)

FFREPDEL        ----- STRING(S) FOUND -----
    25  ISPEXEC DISPLAY PANEL(FFREPDEL)

FFRESTOR        ----- STRING(S) FOUND -----
    23  ISPEXEC DISPLAY PANEL(RCRSACCT)

FILETRAN        ----- STRING(S) FOUND -----
    315  ISPEXEC DISPLAY PANEL(FILETRAN)

GDEPISPF        ----- STRING(S) FOUND -----
    36  ISPEXEC DISPLAY PANEL(PREPINPT)
    146 ISPEXEC DISPLAY PANEL(PREPDISP)
    178 ISPEXEC DISPLAY PANEL(PREPKEEP)

GDRDOCS         ----- STRING(S) FOUND -----
    108 ISPEXEC SELECT PANEL(GDRDOCS)

GDRMAIN         ----- STRING(S) FOUND -----
    110 ISPEXEC SELECT PANEL(GDRMAIN)

GDRMENU         ----- STRING(S) FOUND -----
    65  ISPEXEC SELECT PANEL(GDRMAIN)

GDRUSER         ----- STRING(S) FOUND -----
    24  ISPEXEC DISPLAY PANEL(GDRUSER)

ISDBMAIN        ----- STRING(S) FOUND -----
    47  ISPEXEC DISPLAY PANEL(ISDBMAIN)

ISDBMRGE        ----- STRING(S) FOUND -----
    68  ISPEXEC TDISPL PINST PANEL(PANALLRG)

ISDBREG         ----- STRING(S) FOUND -----
    101 ISPEXEC TDISPL PINST PANEL(PANALLST) CURSOR(OS1)

```

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ISUPINST      ----- STRING(S) FOUND -----
    267      ISPEXEC DISPLAY PANEL(PANINST&REGION)
ISUPI201      ----- STRING(S) FOUND -----
    306      ISPEXEC DISPLAY PANEL(PANINST&REGION)
MBACKUP       ----- STRING(S) FOUND -----
    23       ISPEXEC DISPLAY PANEL(RCRSACCD)
MBACKUP2      ----- STRING(S) FOUND -----
    28       ISPEXEC DISPLAY PANEL(RCRSACCG)
MDELETE       ----- STRING(S) FOUND -----
    23       ISPEXEC DISPLAY PANEL(RCRSACCD)
MRCRGDG       ----- STRING(S) FOUND -----
    23       ISPEXEC DISPLAY PANEL(RCRSACCG)
MRCYCLE2      ----- STRING(S) FOUND -----
    28       ISPEXEC DISPLAY PANEL(MRMERGE5)
    77       ISPEXEC TDISPL MRSTCYL PANEL(MRSTCYL) CURSOR(S1)
    198      ISPEXEC DISPLAY PANEL(MRXTRCT)
    237      ISPEXEC DISPLAY PANEL(MRXTRCT)
MRDBUT12      ----- STRING(S) FOUND -----
    18       ISPEXEC DISPLAY PANEL(MRDBUT12)
MRESTORE      ----- STRING(S) FOUND -----
    23       ISPEXEC DISPLAY PANEL(RCRSACCD)
MREXTRA2      ----- STRING(S) FOUND -----
    78       ISPEXEC DISPLAY PANEL(PROMPTBO)
    95       ISPEXEC DISPLAY PANEL(MRMERGE2)
    128      ISPEXEC DISPLAY PANEL(MREXTRA2)
    141      ISPEXEC DISPLAY PANEL(PANRGEX&REGION)
    194      ISPEXEC TDISPL MRSTCYL PANEL(MRMXTRA2) CURSOR(Y)
    323      ISPEXEC DISPLAY PANEL(MREXHARD)
MRFFUTIL      ----- STRING(S) FOUND -----
    18       ISPEXEC DISPLAY PANEL(MRFFUTIL)
MRPOP         ----- STRING(S) FOUND -----
    5        ISPEXEC DISPLAY PANEL(MRPOP1)
    22       ISPEXEC DISPLAY PANEL(MRPOP2)
    26       ISPEXEC DISPLAY PANEL(MRPOP1)
    49       ISPEXEC DISPLAY PANEL(MRPOP2)
    53       ISPEXEC DISPLAY PANEL(MRPOP1)
    76       ISPEXEC DISPLAY PANEL(MRPOP2)
    80       ISPEXEC DISPLAY PANEL(MRPOP1)
    103      ISPEXEC DISPLAY PANEL(MRPOP2)
    107      ISPEXEC DISPLAY PANEL(MRPOP1)
    130      ISPEXEC DISPLAY PANEL(MRPOP2)

```

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134 ISPEXEC DISPLAY PANEL(MRPOP1)
157 ISPEXEC DISPLAY PANEL(MRPOP2)
161 ISPEXEC DISPLAY PANEL(MRPOP1)

MRPRECK ----- STRING(S) FOUND -----

30 ISPEXEC DISPLAY PANEL(MRMERGE3)
66 ISPEXEC DISPLAY PANEL(MRUPDAT2)
79 ISPEXEC DISPLAY PANEL(PANRGUP&REGION)
86 ISPEXEC DISPLAY PANEL(PANRGMG&REGION)

MRPRELD ----- STRING(S) FOUND -----

90 ISPEXEC DISPLAY PANEL(PANRGMG&REGION)
92 ISPEXEC DISPLAY PANEL(PANRGUP&REGION)

MRRCGDG ----- STRING(S) FOUND -----

23 ISPEXEC DISPLAY PANEL(RCRSACCR)

MRRPSTLS ----- STRING(S) FOUND -----

27 ISPEXEC DISPLAY PANEL(RCRSACCN)

MRSTDELS ----- STRING(S) FOUND -----

28 ISPEXEC DISPLAY PANEL(MRSTDELS)

MRSTLIST ----- STRING(S) FOUND -----

27 ISPEXEC DISPLAY PANEL(RCRSACCN)

MRUPDAT2 ----- STRING(S) FOUND -----

32 ISPEXEC DISPLAY PANEL(MRUPDAT2)
45 ISPEXEC DISPLAY PANEL(PROMPTBO)
60 ISPEXEC DISPLAY PANEL(MRMERGE2)
97 ISPEXEC DISPLAY PANEL(MRUPDAT2)
110 ISPEXEC DISPLAY PANEL(PANRGUP&REGION)
117 ISPEXEC DISPLAY PANEL(PANRGMG&REGION)

MRXTRCT ----- STRING(S) FOUND -----

117 ISPEXEC DISPLAY PANEL(MREXHARD)

PREPISPF ----- STRING(S) FOUND -----

36 ISPEXEC DISPLAY PANEL(PREPINPT)
146 ISPEXEC DISPLAY PANEL(PREPOISP)
178 ISPEXEC DISPLAY PANEL(PREPKEEP)

PRNDEST ----- STRING(S) FOUND -----

35 ISPEXEC DISPLAY PANEL(PRNDESTM)
49 ISPEXEC DISPLAY PANEL(PRNDESTO)
82 ISPEXEC DISPLAY PANEL(PRNDESTF)
96 ISPEXEC DISPLAY PANEL(PRNDESTS)

RCRDOCS ----- STRING(S) FOUND -----

108 ISPEXEC SELECT PANEL(RCRDOCS)

```

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RCRINIT ----- STRING(S) FOUND -----
68 ISPEXEC DISPLAY PANEL(RCRSMIN)
RCRMENU ----- STRING(S) FOUND -----
63 ISPEXEC SELECT PANEL(RCRMAIN)
RCRSMIN ----- STRING(S) FOUND -----
47 ISPEXEC DISPLAY PANEL(RCRSMIN)
RCRSXVER ----- STRING(S) FOUND -----
29 ISPEXEC DISPLAY PANEL(RCRSXVER)
RCRUSER ----- STRING(S) FOUND -----
24 ISPEXEC DISPLAY PANEL(RCRUSER)
REPORTS ----- STRING(S) FOUND -----
357 ISPEXEC DISPLAY PANEL(RCROACT)
393 ISPEXEC SELECT PANEL(REPORT1)
SUMAIN ----- STRING(S) FOUND -----
48 ISPEXEC DISPLAY PANEL(SUMAIN)
SUPRO1 ----- STRING(S) FOUND -----
101 ISPEXEC TDISPL SUPRO1 PANEL(SUPRO) CSRROW(1) AUTOSEL(NO)
SUSTART1 ----- STRING(S) FOUND -----
75 ISPEXEC DISPLAY PANEL(SUPRO1)
SUSTAT1 ----- STRING(S) FOUND -----
27 ISPEXEC DISPLAY PANEL(SUSTAT1)
93 ISPEXEC TDISPL SUPRO2 PANEL(SUSTATUS) CSRROW(1) AUTOSEL(NO)
SUSTOP1 ----- STRING(S) FOUND -----
71 ISPEXEC DISPLAY PANEL(SUPRO1)
S2KARCH ----- STRING(S) FOUND -----
23 ISPEXEC DISPLAY PANEL(S2KARCH)
TSTDBPNL ----- STRING(S) FOUND -----
46 ISPEXEC DISPLAY PANEL(TSTDBPNL)

00004800

00004600

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APPENDIX I ISPF SKELETON TAILORING CALLS

BATCHRP1 ----- STRING(S) FOUND -----

185 ISPEXEC FTOPEN TEMP
186 ISPEXEC FTINCL &SKLNAME
187 ISPEXEC FTCLOSE

BATCHRP3 ----- STRING(S) FOUND -----

105 ISPEXEC FTOPEN TEMP
106 ISPEXEC FTINCL BATCHRP3
107 ISPEXEC FTCLOSE

BATCHSUB ----- STRING(S) FOUND -----

104 ISPEXEC FTOPEN TEMP
105 ISPEXEC FTINCL &SKELNEM
106 ISPEXEC FTCLOSE

BATUCALC ----- STRING(S) FOUND -----

47 ISPEXEC FTOPEN TEMP
48 ISPEXEC FTINCL BATUCALC
49 ISPEXEC FTCLOSE

CARSARCH ----- STRING(S) FOUND -----

243 ISPEXEC FTOPEN
244 ISPEXEC FTINCL CARSARCH
245 ISPEXEC FTCLOSE

CNESTARS ----- STRING(S) FOUND -----

403 ISPEXEC FTOPEN TEMP
404 ISPEXEC FTINCL STARSJOB
405 IF &PROCOPT = I THEN ISPEXEC FTINCL STARSREJ
406 ELSE ISPEXEC FTINCL STARSRFN
407 ISPEXEC FTCLOSE

DBAREBLD ----- STRING(S) FOUND -----

38 ISPEXEC FTOPEN TEMP
39 ISPEXEC FTINCL MRREBILD
40 ISPEXEC FTCLOSE

DOCJOB ----- STRING(S) FOUND -----

28 ISPEXEC FTOPEN
29 ISPEXEC FTINCL JCLTOP
30 ISPEXEC FTINCL JCLJES
31 ISPEXEC FTINCL &SKNAM
32 ISPEXEC FTCLOSE

GDDOCJOB ----- STRING(S) FOUND -----

28 ISPEXEC FTOPEN
29 ISPEXEC FTINCL GDJCLTOP
30 ISPEXEC FTINCL GDJCLJES
31 ISPEXEC FTINCL &SKNAM
32 ISPEXEC FTCLOSE

ISUPFOC2 ----- STRING(S) FOUND -----

559 ISPEXEC FTOPEN TEMP
560 ISPEXEC FTINCL INSTALL
561 ISPEXEC FTCLOSE

MBACKUP2 ----- STRING(S) FOUND -----

54 ISPEXEC FTOPEN TEMP
55 ISPEXEC FTINCL MBACKUP
56 ISPEXEC FTCLOSE

MRCRGDG ----- STRING(S) FOUND -----

47 ISPEXEC FTOPEN TEMP
48 ISPEXEC FTINCL MRCRGDG
49 ISPEXEC FTCLOSE

MREXTRA2 ----- STRING(S) FOUND -----

325 ISPEXEC FTOPEN TEMP
326 ISPEXEC FTINCL MREXTRA2
327 ISPEXEC FTCLOSE

MRPRECK ----- STRING(S) FOUND -----

312 ISPEXEC FTOPEN TEMP
313 ISPEXEC FTINCL MRPRECK
314 ISPEXEC FTCLOSE

MRRCGDG ----- STRING(S) FOUND -----

56 ISPEXEC FTOPEN TEMP
58 ISPEXEC FTINCL MRRCGDG
60 ISPEXEC FTINCL MRRCGDG
61 ISPEXEC FTCLOSE

MRREBILD ----- STRING(S) FOUND -----

19 ISPEXEC FTOPEN TEMP
20 ISPEXEC FTINCL MRREBILD
21 ISPEXEC FTCLOSE

MRSTDELS ----- STRING(S) FOUND -----

97 ISPEXEC FTOPEN TEMP
98 ISPEXEC FTINCL MRSTDELS
99 ISPEXEC FTCLOSE

MRUPDAT2 ----- STRING(S) FOUND -----

350 ISPEXEC FTOPEN TEMP
351 ISPEXEC FTINCL MRUPDAT2
352 ISPEXEC FTCLOSE

MRUPDT ----- STRING(S) FOUND -----

210 ISPEXEC FTOPEN TEMP
211 ISPEXEC FTINCL MRUPDT
212 ISPEXEC FTCLOSE

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NRXTRCT ----- STRING(S) FOUND -----

132 ISPEXEC FTOPEN TEMP
133 ISPEXEC FTINCL MREXTRA2
134 ISPEXEC FTCLOSE

RCRIBMCG ----- STRING(S) FOUND -----

332 ISPEXEC FTOPEN TEMP
333 ISPEXEC FTINCL RCRTPLCG
334 ISPEXEC FTCLOSE
348 ISPEXEC FTOPEN TEMP
349 ISPEXEC FTINCL RCRTPCCG
350 ISPEXEC FTCLOSE

RCRIBMFL ----- STRING(S) FOUND -----

367 ISPEXEC FTOPEN TEMP
368 ISPEXEC FTINCL RCRTPLFL
369 ISPEXEC FTCLOSE
381 ISPEXEC FTOPEN TEMP
382 ISPEXEC FTINCL RCRTPCFL
383 ISPEXEC FTCLOSE

RCRXMTCG ----- STRING(S) FOUND -----

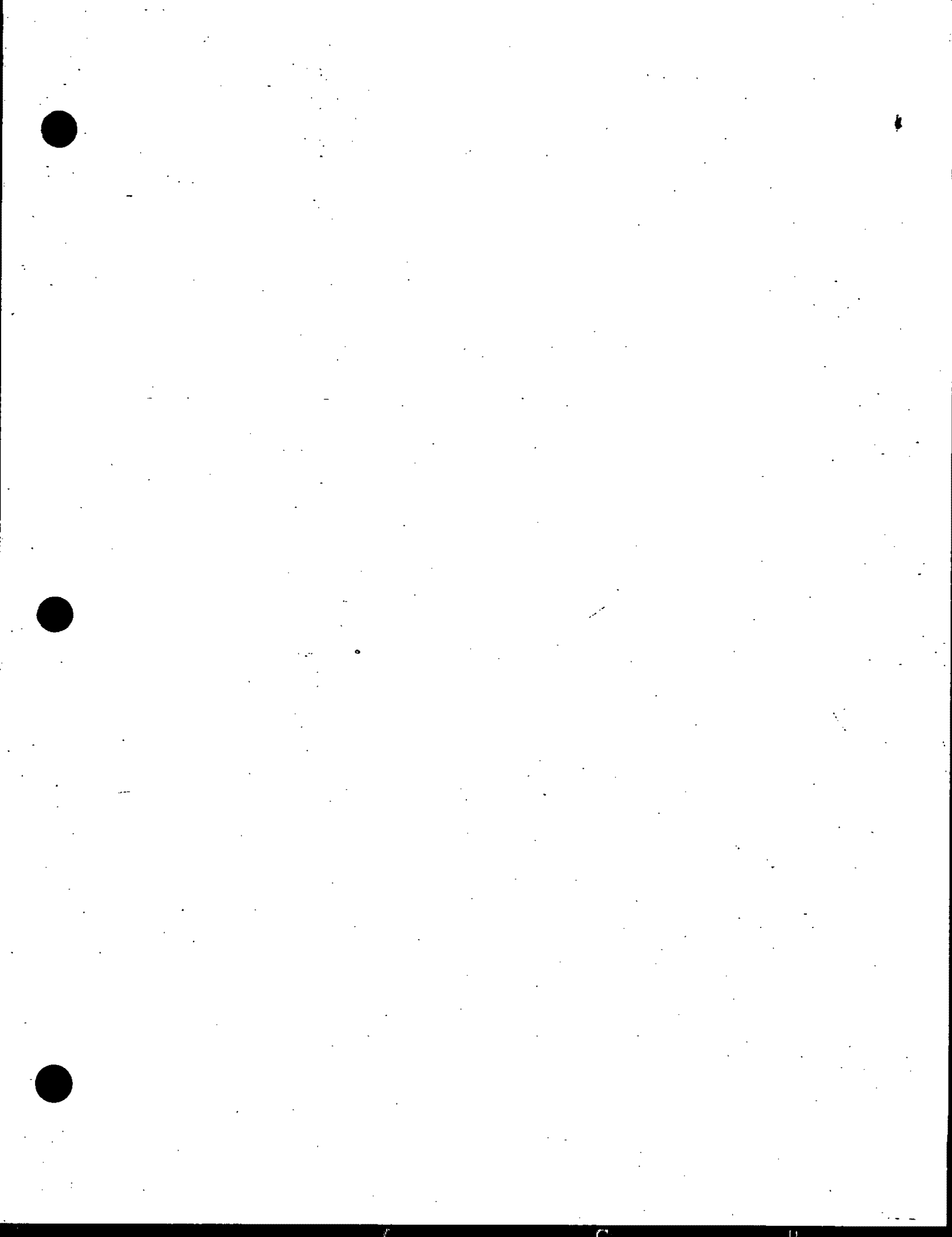
289 ISPEXEC FTOPEN TEMP
290 ISPEXEC FTINCL RCRXMTCG
291 ISPEXEC FTCLOSE

RCRXMTFL ----- STRING(S) FOUND -----

314 ISPEXEC FTOPEN TEMP
315 ISPEXEC FTINCL RCRXMTFL
316 ISPEXEC FTCLOSE

S2KARCH ----- STRING(S) FOUND -----

91 ISPEXEC FTOPEN
92 ISPEXEC FTINCL SARCH
93 ISPEXEC FTCLOSE



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APPENDIX J - PROFILE ALLOCATIONS

CALFOCUS ----- STRING(S) FOUND -----

15 FREE DD(PROFILE)

CNEXCARS ----- STRING(S) FOUND -----

```
79      ALLOC DDNAME(PROFILE) +
80          DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEE)') SHR
89      IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEE)') EQ OK THEN +
90          ALLOC DDNAME(PROFILE) SHR REUSE +
91          DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEE)')
93          ALLOC DDNAME(PROFILE) SHR REUSE +
94          CUTAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEE)')
105     IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFILEE)') EQ OK THEN +
106         ALLOC DDNAME(PROFILE) SHR REUSE +
107         DSNNAME('&DVLP..RCRIS.FOCXEC.DATA(PROFILEE)')
108     ELSE IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEE)') EQ OK THEN +
109         ALLOC DDNAME(PROFILE) SHR REUSE +
110         DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEE)')
112         ALLOC DDNAME(PROFILE) SHR REUSE +
113         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEE)')
```

CNLDCARS ----- STRING(S) FOUND -----

```
142     ALLOC DDNAME(PROFILE) +
143         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEF)') SHR
151     IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEF)') EQ OK THEN +
152         ALLOC DDNAME(PROFILE) SHR REUSE +
153         DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEF)')
155         ALLOC DDNAME(PROFILE) SHR REUSE +
156         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEF)')
166     IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFILEF)') EQ OK THEN +
167         ALLOC DDNAME(PROFILE) SHR REUSE +
168         DSNNAME('&DVLP..RCRIS.FOCXEC.DATA(PROFILEF)')
169     ELSE IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEF)') EQ OK THEN +
170         ALLOC DDNAME(PROFILE) SHR REUSE +
171         DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEF)')
173         ALLOC DDNAME(PROFILE) SHR REUSE +
174         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEF)')
```

CNLDCMEE ----- STRING(S) FOUND -----

```
119     ALLOC DDNAME(PROFILE) +
120         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEC)') SHR
128     IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEC)') EQ OK THEN +
129         ALLOC DDNAME(PROFILE) SHR REUSE +
130         DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEC)')
132         ALLOC DDNAME(PROFILE) SHR REUSE +
133         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEC)')
143     IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFILEC)') EQ OK THEN +
144         ALLOC DDNAME(PROFILE) SHR REUSE +
145         DSNNAME('&DVLP..RCRIS.FOCXEC.DATA(PROFILEC)')
146     ELSE IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEC)') EQ OK THEN +
147         ALLOC DDNAME(PROFILE) SHR REUSE +
148         DSNNAME('&TEST..RCRIS.FOCXEC.DATA(PROFILEC)')
150         ALLOC DDNAME(PROFILE) SHR REUSE +
151         DSNNAME('&PROG..RCRIS.FOCXEC.DATA(PROFILEC)')
```

CNLDHAND

----- STRING(S) FOUND -----

```

130  ALLOC DDNAME(PROFILE) +
131      DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEA)') SHR
139  IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILEA)') EQ OK THEN +
140      ALLOC DDNAME(PROFILE) SHR REUSE +
141          DSNNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILEA)')
143      ALLOC DDNAME(PROFILE) SHR REUSE +
144          DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEA)')
154  IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEA)') EQ OK THEN +
155      ALLOC DDNAME(PROFILE) SHR REUSE +
156          DSNNAME('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEA)')
157  ELSE IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILEA)') EQ OK THEN +
158      ALLOC DDNAME(PROFILE) SHR REUSE +
159          DSNNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILEA)')
161      ALLOC DDNAME(PROFILE) SHR REUSE +
162          DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEA)')

```

CNLDPERM

----- STRING(S) FOUND -----

```

129  ALLOC DDNAME(PROFILE) +
130      DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEB)') SHR
138  IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILEB)') EQ OK THEN +
139      ALLOC DDNAME(PROFILE) SHR REUSE +
140          DSNNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILEB)')
142      ALLOC DDNAME(PROFILE) SHR REUSE +
143          DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEB)')
153  IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEB)') EQ OK THEN +
154      ALLOC DDNAME(PROFILE) SHR REUSE +
155          DSNNAME('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEB)')
156  ELSE IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILEB)') EQ OK THEN +
157      ALLOC DDNAME(PROFILE) SHR REUSE +
158          DSNNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILEB)')
160      ALLOC DDNAME(PROFILE) SHR REUSE +
161          DSNNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILEB)')

```

EDITOR

----- STRING(S) FOUND -----

```

82  IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFCNED)') = OK +
84      ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(PROFCNED)') SHR
86  IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFCNED)') = OK +
88      ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(PROFCNED)') SHR
90      ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(PROFCNED)') SHR

```

ISUPFOCI

----- STRING(S) FOUND -----

```

56  IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFINST)') = OK +
58      ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(PROFINST)') SHR
60  IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFINST)') = OK +
62      ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(PROFINST)') SHR
64      ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(PROFINST)') SHR

```

ISUPFOC2

----- STRING(S) FOUND -----

```

65  ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(ISUPMAI3)') SHR
69  ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(ISUPMAI3)') SHR
71  ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(ISUPMAI3)') SHR

```

ISUPINST

----- STRING(S) FOUND -----

```

1001  REN RCRIS.FOCEXECI.DATA(PROFILEN) +
1002      RCRIS.FOCEXECI.DATA(PROFILE)

```

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```
ISUPI201      ----- STRING(S) FOUND -----
1825 REN RCRIS.FOCXECI.DATA(PROFILE) +
1826     RCRIS.FOCXECI.DATA(PROFILE)

MBSLDBT      ----- STRING(S) FOUND -----
31 DELETE RCRIS.FOCXEC.DATA(PROFILE)
33     &TLINEDIT RCRIS.FOCXEC.DATA(PROFEXTR)
34     SAVE RCRIS.FOCXEC.DATA(PROFILE)
48 DELETE RCRIS.FOCXEC.DATA(PROFILE)

MBSLDCP      ----- STRING(S) FOUND -----
32 DELETE RCRIS.FOCXEC.DATA(PROFILE)
34     &TLINEDIT RCRIS.FOCXEC.DATA(PROFEXTR)
35     SAVE RCRIS.FOCXEC.DATA(PROFILE)
49 DELETE RCRIS.FOCXEC.DATA(PROFILE)

MOUINIT      ----- STRING(S) FOUND -----
29 DELETE '&PROG..RCRIS.FOCXECK.DATA(PROFILE)'
31     &TLINEDIT '&PROG..RCRIS.FOCXECK.DATA(PROFILE1)' NONUM
38     SAVE '&PROG..RCRIS.FOCXECK.DATA(PROFILE)'

MRRPSTLS     ----- STRING(S) FOUND -----
127 IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFILEQ)') = OK +
129     ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCXEC.DATA(PROFILEQ)') SHR REU
131 IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEQ)') = OK +
133     ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCXEC.DATA(PROFILEQ)') SHR REU
135     ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCXEC.DATA(PROFILEQ)') SHR REU

MRSTLIST     ----- STRING(S) FOUND -----
132 IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFILEP)') = OK +
134     ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCXEC.DATA(PROFILEP)') SHR
136 IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFILEP)') = OK +
138     ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCXEC.DATA(PROFILEP)') SHR
140     ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCXEC.DATA(PROFILEP)') SHR

NEWRCRIS     ----- STRING(S) FOUND -----
349     SET &PROFMEM = &STR(PROFILSU)
353     SET &PROFMEM = &STR(PROFILSG)
384     ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCXEC.DATA(&PROFMEM)') SHR REU
388     ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCXEC.DATA(&PROFMEM)') SHR REU
390     ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCXEC.DATA(&PROFMEM)') SHR REU

PROGCOMP     ----- STRING(S) FOUND -----
96 FREE DDNAME(PROFILE)
202 IF &SYSDSN('&DVLP..RCRIS.FOCXEC.DATA(PROFCOMP)') = OK +
204     ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCXEC.DATA(PROFCOMP)') SHR
206 IF &SYSDSN('&TEST..RCRIS.FOCXEC.DATA(PROFCOMP)') = OK +
208     ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCXEC.DATA(PROFCOMP)') SHR
210     ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCXEC.DATA(PROFCOMP)') SHR
378 FREE DDNAME(PROFILE)

PROGCOPY     ----- STRING(S) FOUND -----
162 COPY '&CACCT..RCRIS.FOCXEC.DATA(PROFILSG)' +
163     '&CACCT..RCRIS.MAIN.FOCXEC.DATA(PROFILSG)' NONUM
```

RCRIORT2

----- STRING(S) FOUND -----

```

17 FREE DDNAME(PROFILE)
47 IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)') = OK +
49   ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)') SHR
51 IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') = OK +
53   ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') SHR
55   ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)') SHR

```

RCRIS

----- STRING(S) FOUND -----

```

353 SET &PROFMEM = &STR(PROFILSU)
357 SET &PROFMEM = &STR(PROFILSG)
388 ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU
392 ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU
394 ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR REU

```

RCRISREG

----- STRING(S) FOUND -----

```

302 SET &PROFMEM = &STR(PROFILSU)
304 SET &PROFMEM = &STR(PROFILSG)
360 ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR
364 ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR
368 ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.CHANGES.&XVER(&PROFMEM)') +
371 ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR

```

RCRISVJ

----- STRING(S) FOUND -----

```

312 SET &PROFMEM = &STR(PROFILSU)
314 SET &PROFMEM = &STR(PROFILSG)
370 ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR
374 ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(&PROFMEM)') SHR
378 ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.CHANGES.&XVER(&PROFMEM)') +
381 ALLOC DD(PROFILE) DS('&NGRCRT.RCRIS.FOCEXEC.DATA(PROFILVJ)') SHR

```

RCRMEMDC

----- STRING(S) FOUND -----

```

36 IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +
37   ALLOC DDNAME(PROFILE) SHR +
38   DSNAME('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)')
39 ELSE IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +
40   ALLOC DDNAME(PROFILE) SHR +
41   DSNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)')
43   ALLOC DDNAME(PROFILE) SHR +
44   DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')
47 IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +
48   ALLOC DDNAME(PROFILE) SHR +
49   DSNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)')
51   ALLOC DDNAME(PROFILE) SHR +
52   DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')
54 WHEN (P) ALLOC DDNAME(PROFILE) SHR +
55   DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')

```

RCRMEMDP

----- STRING(S) FOUND -----

```

34 IF &SYSDSN('&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILE)') EQ OK THEN +
35   RENAME '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILE)' +
36   '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILZZ)'
37 COPY '&CRD.RCRIS.FOCEXECI.DATA(PROFILE)' +
38   '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILE)' NONUM
45 IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +
46   ALLOC DDNAME(PROFILE) SHR +
47   DSNAME('&DVLP..RCRIS.FOCEXEC.DATA(PROFILE)')
48 ELSE IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +

```

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```

49      ALLOC DDNAME(PROFILE) SHR +
50      DSNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)')
52      ALLOC DDNAME(PROFILE) SHR +
53      DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')
56      IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)') EQ OK THEN +
57      ALLOC DDNAME(PROFILE) SHR +
58      DSNAME('&TEST..RCRIS.FOCEXEC.DATA(PROFILE)')
60      ALLOC DDNAME(PROFILE) SHR +
61      DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')
63      WHEN (P) ALLOC DDNAME(PROFILE) SHR +
64      DSNAME('&PROG..RCRIS.FOCEXEC.DATA(PROFILE)')
90      DELETE '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILE)'
91      IF &SYSDSN('&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILZZ)') EQ OK THEN +
92      RENAME '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILZZ)' +
93      '&CPYACT..RCRIS.FOCEXEC.CHANGES&VER(PROFILE)'

```

RCRMOU7B ----- STRING(S) FOUND -----

```

29      FREE DDNAME(PROFILE)
60      IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEU)') = OK +
62      ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(PROFILEU)') SHR
64      IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILEU)') = OK +
66      ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(PROFILEU)') SHR
68      ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(PROFILEU)') SHR

```

REBUILD ----- STRING(S) FOUND -----

```

160     ALLOC DD(PROFILE) +
189     ALLOC DD(PROFILE) +
223     ALLOC DD(PROFILE) +

```

SURCRIS ----- STRING(S) FOUND -----

75	IF &SYSDSN('&DVLP..RCRIS.FOCEXEC.DATA(PROFILSU)') = OK +	00750000
77	ALLOC DD(PROFILE) DS('&DVLP..RCRIS.FOCEXEC.DATA(PROFILSU)') SHR	00770000
79	IF &SYSDSN('&TEST..RCRIS.FOCEXEC.DATA(PROFILSU)') = OK +	00790000
81	ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.DATA(PROFILSU)') SHR	00810000
83	IF &SYSDSN('&TEST..RCRIS.FOCEXEC.CHANGES.&XVER(PROFILSU)') = OK +	00830000
85	ALLOC DD(PROFILE) DS('&TEST..RCRIS.FOCEXEC.CHANGES.&XVER(PROFILSU)') +	00850000
88	ALLOC DD(PROFILE) DS('&PROG..RCRIS.FOCEXEC.DATA(PROFILSU)') SHR	00880000

SUREBILD ----- STRING(S) FOUND -----

159	FREE DD(PROFILE, FOCEXEC, SYSIN)	00015900
182	ALLOC DD(PROFILE) +	00018200
185	ALLOC DD(PROFILE) +	00018500
189	ALLOC DD(PROFILE) +	00018900
192	ALLOC DD(PROFILE) +	00019200



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APPENDIX K RCRIS MENU MAP

The following five-page diagram is a complete listing of the RCRIS menus. The diagram displays each module in RCRIS, each menu option and the program name called by the menu option.

The menu map also utilizes a numbering system for the menu options. Each option is assigned a one- to four-digit number, depending upon the level of menu:

- o One-digit numbers are assigned to the first menu level (the modules from the main RCRIS menu).
- o Two-digit numbers are assigned to the second menu level (the options from each module's main menu).
- o Three-digit numbers are assigned to the third menu level (sub-options for each module).
- o Four-digit numbers are assigned to the fourth menu level (the lowest level of options).

If a menu contains more than nine options, letters are assigned after the ninth.

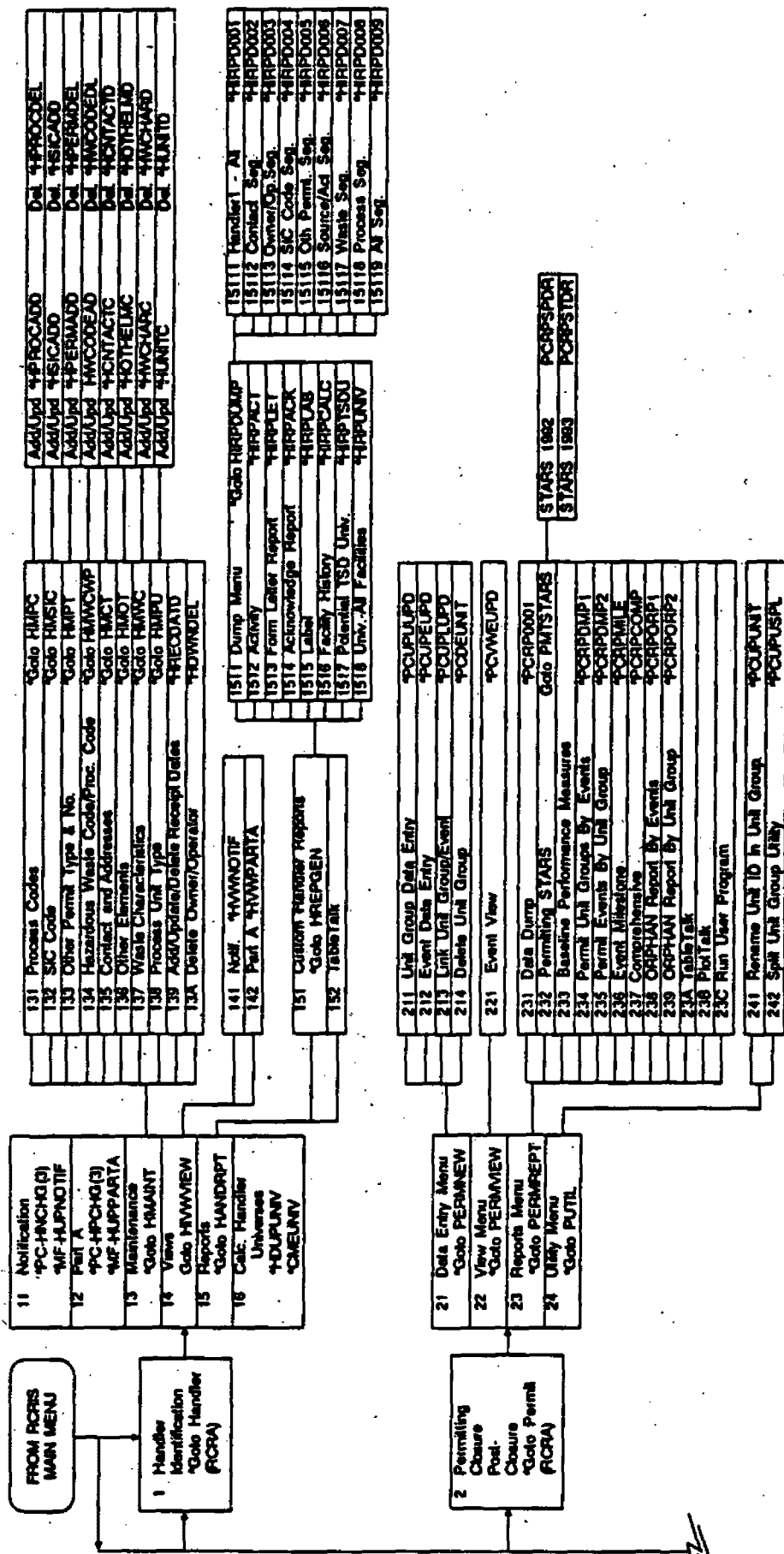
For example, the Commitment Dump has been assigned the number 5911. The meaning of this number is as follows:

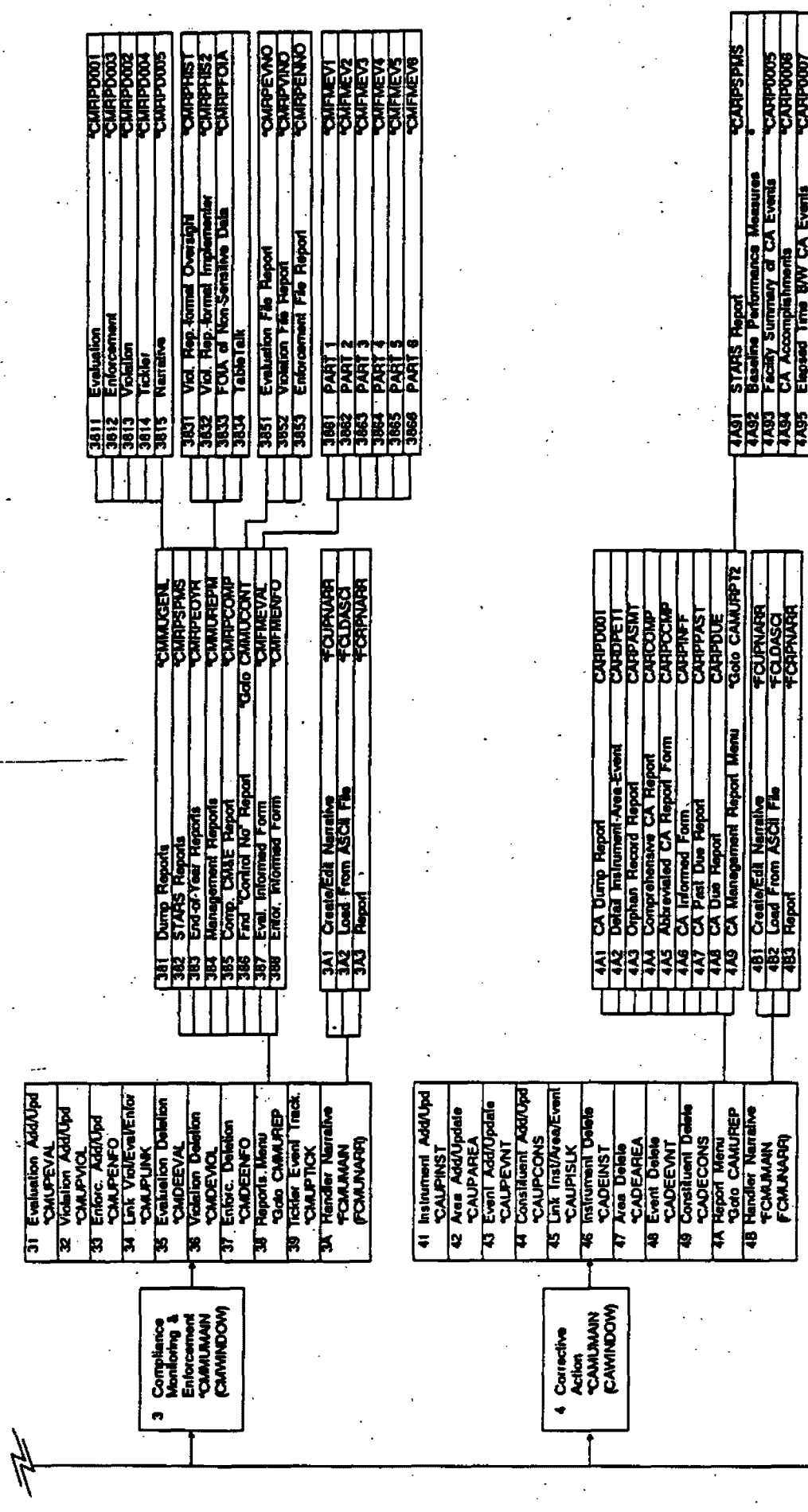
5 represents Option 5 from the RCRIS Main Menu (Program Management).

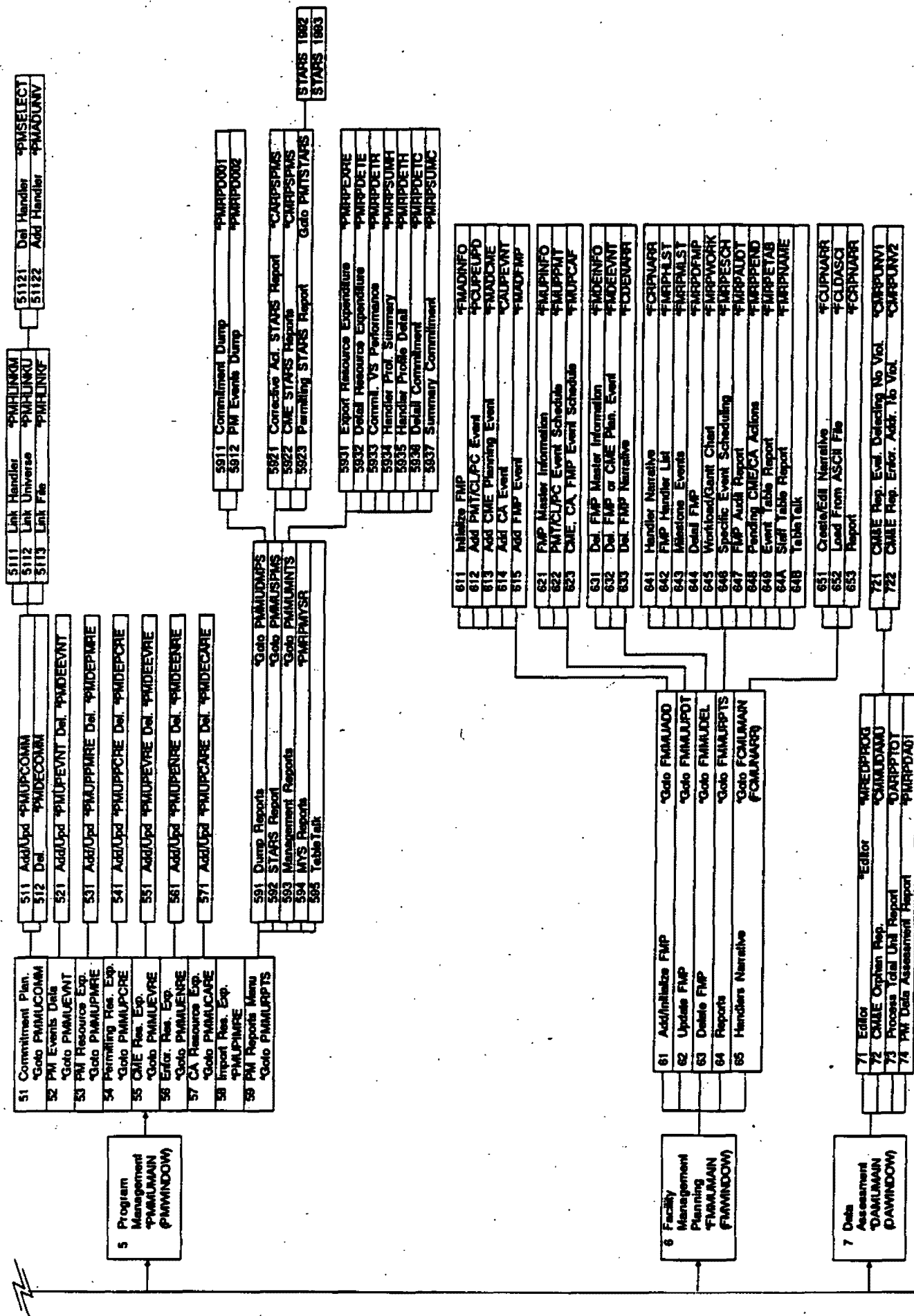
9 represents the ninth option from the Program Management Main Menu (PM Reports).

1 represents the first option from the PM Reports Menu (Dump Reports).

1 represents the first option from the Dump Reports Menu (Commitment Dump).









8251 Del Handler Identification	80HDEL
8252 Del Source Record	80SDEL
8281 Del Permit Processing No.	80DEPRDC
8282 Del Permit Unit Group	80DEUNIT
8271 Evaluation Decision	80DEVAL
8272 Del Decision	80DEVAL
8273 Error Decision	80DEINFO
8274 Invalid Pathway Decision	80DEPTIS
8281 Del CA Area	80DEAREA
8282 Del CA Instrument	80DEINST
8283 Del CA Event	80DEINST
8284 Del CA Contaminant Data	80DEINST
8281 Del PU Control/Protection	80DECONT
8282 Del Non-PUC Spec Event	80DECONT
8283 Del PU Res. Expenditure	80DECONT
8284 Del PU/CLAPC Res. Exp.	80DECONT
8285 Del CME Eval. Res. Exp.	80DECONT
8286 Del CME Eval. Res. Exp.	80DECONT
8287 Del CA Res. Exp.	80DECONT
8281 Del PUP Model Information	80DEINFO
8282 Del PUP or CME PUA Event	80DEINFO

811 AddChg Del Security Information	80DESEC
812 Del File	80DESEC
821 Del Handler ID Number	80DECH200
822 Del Handler Universes	80DECH200
823 Del Hand Person	80DECH200
824 Del HND File For Acknowledgements	80DECH200
825 Del Narrative Data	80DECH200
826 Del HND Data	80DECH200
827 Del Data PHOTO/PC Data	80DECH200
828 Del Data CME Data	80DECH200
829 Del Data CA Data	80DECH200
82A Del Data PUA Data	80DECH200
82B Del Data PUP Data	80DECH200

81 Security	80DESEC
82 Data Maintenance	80DESEC
83 Del Data Maintenance	80DESEC
84 Del Data Maintenance	80DESEC
85 Del Data Maintenance	80DESEC
86 Del Data Maintenance	80DESEC
87 Del Data Maintenance	80DESEC
88 Del Data Maintenance	80DESEC
89 Del Data Maintenance	80DESEC
90 Del Data Maintenance	80DESEC
91 Del Data Maintenance	80DESEC
92 Del Data Maintenance	80DESEC
93 Del Data Maintenance	80DESEC
94 Del Data Maintenance	80DESEC
95 Del Data Maintenance	80DESEC
96 Del Data Maintenance	80DESEC
97 Del Data Maintenance	80DESEC
98 Del Data Maintenance	80DESEC
99 Del Data Maintenance	80DESEC

831 Event File	80DESEC
832 Event File	80DESEC
833 Event File	80DESEC
834 Event File	80DESEC
835 Event File	80DESEC
836 Event File	80DESEC
837 Event File	80DESEC
838 Event File	80DESEC
839 Event File	80DESEC
840 Event File	80DESEC
841 Event File	80DESEC
842 Event File	80DESEC
843 Event File	80DESEC
844 Event File	80DESEC
845 Event File	80DESEC
846 Event File	80DESEC
847 Event File	80DESEC
848 Event File	80DESEC
849 Event File	80DESEC
850 Event File	80DESEC
851 Event File	80DESEC
852 Event File	80DESEC
853 Event File	80DESEC
854 Event File	80DESEC
855 Event File	80DESEC
856 Event File	80DESEC
857 Event File	80DESEC
858 Event File	80DESEC
859 Event File	80DESEC
860 Event File	80DESEC
861 Event File	80DESEC
862 Event File	80DESEC
863 Event File	80DESEC
864 Event File	80DESEC
865 Event File	80DESEC
866 Event File	80DESEC
867 Event File	80DESEC
868 Event File	80DESEC
869 Event File	80DESEC
870 Event File	80DESEC
871 Event File	80DESEC
872 Event File	80DESEC
873 Event File	80DESEC
874 Event File	80DESEC
875 Event File	80DESEC
876 Event File	80DESEC
877 Event File	80DESEC
878 Event File	80DESEC
879 Event File	80DESEC
880 Event File	80DESEC
881 Event File	80DESEC
882 Event File	80DESEC
883 Event File	80DESEC
884 Event File	80DESEC
885 Event File	80DESEC
886 Event File	80DESEC
887 Event File	80DESEC
888 Event File	80DESEC
889 Event File	80DESEC
890 Event File	80DESEC
891 Event File	80DESEC
892 Event File	80DESEC
893 Event File	80DESEC
894 Event File	80DESEC
895 Event File	80DESEC
896 Event File	80DESEC
897 Event File	80DESEC
898 Event File	80DESEC
899 Event File	80DESEC
900 Event File	80DESEC

851 Non Merged File Report	80DESEC
852 Add/Delete Handler Report	80DESEC
853 Error Report	80DESEC
854 Error Accounting Report	80DESEC
855 Update Table Report	80DESEC
856 Error Report	80DESEC
857 Error Report	80DESEC
858 Error Report	80DESEC
859 Error Report	80DESEC
860 Error Report	80DESEC
861 Error Report	80DESEC
862 Error Report	80DESEC
863 Error Report	80DESEC
864 Error Report	80DESEC
865 Error Report	80DESEC
866 Error Report	80DESEC
867 Error Report	80DESEC
868 Error Report	80DESEC
869 Error Report	80DESEC
870 Error Report	80DESEC
871 Error Report	80DESEC
872 Error Report	80DESEC
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890 Error Report	80DESEC
891 Error Report	80DESEC
892 Error Report	80DESEC
893 Error Report	80DESEC
894 Error Report	80DESEC
895 Error Report	80DESEC
896 Error Report	80DESEC
897 Error Report	80DESEC
898 Error Report	80DESEC
899 Error Report	80DESEC
900 Error Report	80DESEC

851 Control File Maintenance	80DESEC
852 M O U Table Maintenance	80DESEC
853 Error Table Maintenance	80DESEC
854 Update Implementation Database	80DESEC
855 Error Report Manager	80DESEC
856 Update Report Manager	80DESEC
857 Update Report Manager	80DESEC
858 Update Report Manager	80DESEC
859 Update Report Manager	80DESEC
860 Update Report Manager	80DESEC
861 Update Report Manager	80DESEC
862 Update Report Manager	80DESEC
863 Update Report Manager	80DESEC
864 Update Report Manager	80DESEC
865 Update Report Manager	80DESEC
866 Update Report Manager	80DESEC
867 Update Report Manager	80DESEC
868 Update Report Manager	80DESEC
869 Update Report Manager	80DESEC
870 Update Report Manager	80DESEC
871 Update Report Manager	80DESEC
872 Update Report Manager	80DESEC
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886 Update Report Manager	80DESEC
887 Update Report Manager	80DESEC
888 Update Report Manager	80DESEC
889 Update Report Manager	80DESEC
890 Update Report Manager	80DESEC
891 Update Report Manager	80DESEC
892 Update Report Manager	80DESEC
893 Update Report Manager	80DESEC
894 Update Report Manager	80DESEC
895 Update Report Manager	80DESEC
896 Update Report Manager	80DESEC
897 Update Report Manager	80DESEC
898 Update Report Manager	80DESEC
899 Update Report Manager	80DESEC
900 Update Report Manager	80DESEC



91	All TSD Facilities	*FIRPI000
92	Land Disposal Fac.	*FIRPI030
93	Incineration Fac.	*FIRPI050
94	Storage & Treat. Fac.	*FIRPI070
95	RCRA Header Prod.	*FIRPI015
96	Generators	*FIRPI100
97	Transporters	*FIRPI120
98	Summary of CA Core.	*FIRPI700
99	Non-Sen. CME Data	*CMRPPSMP

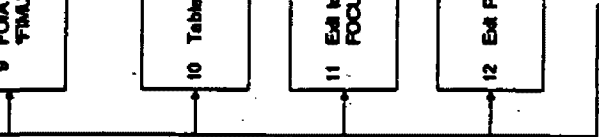
9 FOIA Reports
*FIALDRV

10 TableTalk

11 Exit to
FOCUS

12 Exit RCRIS

Exit to
RCRIS
MAIN MENU



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APPENDIX L FOCUS DATABASE FILES AND TABLE LOOKUP FILES BY MODULES

DATABASE / DATASET NAME	MODULE(S)
&DBPROG..RCRIS.AGNDES.FOCUS	ALL
&DBPROG..RCRIS.AREADES.FOCUS	CA
&DBPROG..RCRIS.CAAREA.FOCUS	CA
&DBPROG..RCRIS.CACONST.FOCUS	CA
&DBPROG..RCRIS.CAINST.FOCUS	CA
&DBPROG..RCRIS.CEENFOR.FOCUS	CME
&DBPROG..RCRIS.CEEVAL.FOCUS	CME
&DBPROG..RCRIS.CETICK.FOCUS	CME
&DBPROG..RCRIS.CEVIOL.FOCUS	CME
&DBPROG..RCRIS.COMMTMNT.FOCUS	PM
&DBPROG..RCRIS.CONSTCD.FOCUS	CA
&DBPROG..RCRIS.CONTROL.FOCUS	MERGE
&DBPROG..RCRIS.EPATHRD.DATA	ALL
&DBPROG..RCRIS.EREADES.FOCUS	CME
&DBPROG..RCRIS.ETEMPLAT.FOCUS	CA, CME, FMP, PM, PMT
&DBPROG..RCRIS.EVENT.FOCUS	CA, FMP, PM
&DBPROG..RCRIS.GENIND.DATA	HID
&DBPROG..RCRIS.HANDLER1.FOCUS	ALL
&DBPROG..RCRIS.HANDLER2.FOCUS	ALL
&DBPROG..RCRIS.IORAUDIT.FOCUS	MERGE
&DBPROG..RCRIS.IORTABLE.FOCUS	MERGE
&DBPROG..RCRIS.MERGE.FOCUS	MERGE
&DBPROG..RCRIS.MOUTABLE.FOCUS	ALL
&DBPROG..RCRIS.NAME.FOCUS	ALL
&DBPROG..RCRIS.OWNRTYPE.DATA	HID
&DBPROG..RCRIS.PERMPROJ.FOCUS	PMT
&DBPROG..RCRIS.PERMTYPE.FOCUS	PMT
&DBPROG..RCRIS.PESTATUS.FOCUS	PMT
&DBPROG..RCRIS.PEVENT.FOCUS	PMT
&DBPROG..RCRIS.PSTATDES.FOCUS	ALL
&DBPROG..RCRIS.PMCOMMIT.FOCUS	PM
&DBPROG..RCRIS.PROCCODE.FOCUS	PMT
&DBPROG..RCRIS.PUNIT.FOCUS	PMT
&DBPROG..RCRIS.RCRADDSC.DATA	HID
&DBPROG..RCRIS.RCRAGDSC.DATA	HID
&DBPROG..RCRIS.RCRASTAT.DATA	HID
&DBPROG..RCRIS.RCRATDSC.DATA	HID
&DBPROG..RCRIS.REMEDYCD.FOCUS	CA
&DBPROG..RCRIS.RTYPDES.FOCUS	CME
&DBPROG..RCRIS.SECURITY.FOCUS	ALL
&DBPROG..RCRIS.SPECPROC.FOCUS	HID
&DBPROG..RCRIS.SPECUOM.FOCUS	HID
&DBPROG..RCRIS.SPEPECDE.FOCUS	PMT
&DBPROG..RCRIS.STATELST.FOCUS	MERGE
&DBPROG..RCRIS.SUMMARY.FOCUS	CA, CME, FMP, PM
&DBPROG..RCRIS.UCALC.DATA	ALL
&DBPROG..RCRIS.UOMTYPE.FOCUS	PMT
&DBPROG..RCRIS.UPDTABLE.FOCUS	ALL
&DBPROG..RCRIS.WASTECDE.FOCUS	HID
&DBPROG..RCRIS.WUOMTYPE.DATA	HID

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&TABLES..RCRIS.CMERR.DATA	ALL
&TABLES..RCRIS.ERRFILE.DATA	ALL
&TABLES..RCRIS.HCOUNTY.FOCUS	ALL
&TABLES..RCRIS.REGION.DATA	ALL
&TABLES..RCRIS.SICCODE.FOCUS	ALL
&TABLES..RCRIS.STATE.DATA	ALL
&DBPROG..RCRIS.PCRPSP92.DATA	PMT
&DBPROG..RCRIS.PCRPSPDF.DATA	PMT
&TABLES..HBOYSNC.SPMS	CME
&TABLES..RCRIS.MRLDIOR.DATA	MERGE
&TABLES..RCRIS.STATE2.DATA	ALL
&PROG..RCRIS.VERSION.RELDATE	ALL
&TABLES..RCRIS.DBNAMES.DATA	ALL

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APPENDIX M SU PROGRAM: SUSTART, SUAUTOS, SUSTOP, SUAUTOP, PROFILSU, SUTABLE, AND SUSTATUS

SUSTART

```
PROC 0 LIST()
/*****
/* START FOR ALL SINK MACHINES BY USERID: CREATED 7/18/91 */
/* CREATED IN RESPONSE TO CPMS # 133736 */
/* SEARCHES THE RCRS.RCRIS.SUTABLE.DATA TABLE FOR A PRIMARY */
/* RESPONSIBLE USERID EQUAL TO THE CURRENT USERID AND THEN */
/* EXECUTES SUAUTOS CLIST FOR EACH EQUAL CONDITION. */
/* DRIVEN BY PARAMETER FILE: RCRS.RCRIS.SUTABLE.DATA */
/* TABLE COLUMNS: (FOR PARAMETERS) */
/* 01-08 SINK MACHINE START ID. */
/* 10-17 SINK MACHINE STOP ID. */
/* 19 HLIPRINT PARAMETER (BLANK = NONE, S = STAT, E = ECHO) */
/* 20-23 GROUP ACCOUNT RESPONSIBLE FOR SINK MACHINE */
/* 25-33 BATCH JOB ACCOUNT CODE */
/* 35-38 BOX CODE */
/* 40-56 REMOTE PRINTER DESIGNATION */
/* 58-60 PRIMARY RESPONSIBLE USERID */
/* 62-64 ALTERNATE RESPONSIBLE USERID */
/* 66-68 RCRIS SUPPORT USERID */
/* 70-73 SU START TIME */
/* 75-78 SU STOP TIME */
/* 80-83 RCRIS MASTER DATA BASE DEFINITION ACCOUNT CODE (MACT) */
/* 85-88 FIRST RCRIS DATA BASE ACCOUNT CODE */
/* 90-92 FIRST RCRIS DATA BASE IMPLEMENTER CODE */
/* 94-97 SECOND RCRIS DATA BASE ACCOUNT CODE */
/* 99-102 SECOND RCRIS DATA BASE IMPLEMENTER CODE */
/* 104-107 THIRD RCRIS DATA BASE ACCOUNT CODE */
/* 109-111 THIRD RCRIS DATA BASE IMPLEMENTER CODE */
/* 113-116 FOURTH RCRIS DATA BASE ACCOUNT CODE */
/* 118-120 FOURTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 122-125 FIFTH RCRIS DATA BASE ACCOUNT CODE */
/* 127-129 FIFTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 131-134 SIXTH RCRIS DATA BASE ACCOUNT CODE */
/* 136-138 SIXTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 140-143 SEVENTH RCRIS DATA BASE ACCOUNT CODE */
/* 145-147 SEVENTH RCRIS DATA BASE IMPLEMENTER CODE */
/*
/* CLIST PARAMETERS:
/* . LIST - WHEN SET TO LIST, TURNS ON DEBUG OPTIONS
/*
/* MODIFIED:
/*
*****/
CONTROL END(ENDO) NOFLUSH MSG MAIN NOLIST NOSYMLIST NOCONLIST
IF &LIST = &STR(LIST) THEN +
  CONTROL LIST SYMLIST CONLIST
IF &LIST NE &STR(LIST) THEN +
  SET &LIST = &STR(.)

SET &PREF = &SYSPREF
ATTN +
  GOTO FINISH

SET &USR = &SUBSTR(1:3,&SYSPREF)
SET &ACCT = &SUBSTR(4:7,&SYSPREF)
SET &FND = &STR(F)
```

```

IF &LIST NE &STR(LIST) THEN +
  CONTROL NOMSG
  FREE DD(SUTBLE)
  CONTROL MSG

IF &ACCT = &STR(RCRT) +
  OR &ACCT = &STR(RCRD) THEN +
  DO
    IF &SYSDSN('RCRT.RCRIS.CLIST(SUAUTOS)') = OK THEN +
      SET &PROG = &ACCT
    ELSE +
      SET &PROG = &STR(KHDB)
    IF &SYSDSN('RCRT.RCRIS.SUTABLE.DATA') = OK THEN +
      ALLOC DD(SUTBLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
    ELSE +
      ALLOC DD(SUTBLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
  ENDO
ELSE +
  DO
    SET &PROG = &STR(KHDB)
    IF &SYSDSN('RCRS.RCRIS.SUTABLE.DATA') = OK THEN +
      ALLOC DD(SUTBLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
    ELSE +
      ALLOC DD(SUTBLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
  ENDO

OPENFILE SUTBLE INPUT
GETFILE SUTBLE
SET &SUINIT = &SUBSTR(1:8,&SUTBLE)
DO WHILE &SUINIT NE &STR(#####)
  SET &SUACCT = &SUBSTR(85:88,&SUTBLE)
  SET &SUIMPL = &SUBSTR(90:92,&SUTBLE)
  SET &SUPRIM = &SUBSTR(58:60,&SUTBLE)
  SET &SUSECN = &SUBSTR(62:64,&SUTBLE)
  IF &USR = &SUPRIM +
    OR &USR = &SUSECN THEN +
    DO
      SET &FND = &STR(T)
      PROFILE PREFIX(&USR&SUACCT)
      EX ' &PROG..RCRIS.CLIST(SUAUTOS)' +
        'IMPL(&SUIMPL) LIST(&LIST)'
    ENDO
  GETFILE SUTBLE
  SET &SUINIT = &SUBSTR(1:8,&SUTBLE)
ENDDO
IF &FND = &STR(F) THEN +
  DO
    WRITE
    WRITE NO ENTRIES FOUND IN SU TABLE FOR YOUR USERID, &USR
    WRITE
  ENDO
FINISH: +
PROFILE PREFIX(&PREF)
IF &LIST NE &STR(LIST) THEN +
  CONTROL NOMSG
  CLOSFILE SUTBLE
  FREE DD(SUTBLE)
  CONTROL MSG
  EXIT

```

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SUAUTOS

```

PROC 0 IMPL() LIST() BATCH().
/*****
/* SINK MACHINE AUTO START: CREATED 3/22/91 */
/* DRIVEN BY PARAMETER FILE: RCRS.RCRIS.SUTABLE.DATA */
/* TABLE COLUMNS: (FOR PARAMETERS) */
/* 01-08 SINK MACHINE START ID. */
/* 10-17 SINK MACHINE STOP ID. */
/* 19 HLIPRINT PARAMETER (BLANK = NONE, S = STAT, E = ECHO) */
/* 20-23 GROUP ACCOUNT RESPONSIBLE FOR SINK MACHINE */
/* 25-33 BATCH JOB ACCOUNT CODE */
/* 35-38 BOX CODE */
/* 40-56 REMOTE PRINTER DESIGNATION */
/* 58-60 PRIMARY RESPONSIBLE USERID */
/* 62-64 ALTERNATE RESPONSIBLE USERID */
/* 66-68 RCRIS SUPPORT USERID */
/* 70-73 SU START TIME */
/* 75-78 SU STOP TIME */
/* 80-83 RCRIS MASTER DATA BASE DEFINITION ACCOUNT CODE (MACT) */
/* 85-88 FIRST RCRIS DATA BASE ACCOUNT CODE */
/* 90-92 FIRST RCRIS DATA BASE IMPLEMENTER CODE */
/* 94-97 SECOND RCRIS DATA BASE ACCOUNT CODE */
/* 99-102 SECOND RCRIS DATA BASE IMPLEMENTER CODE */
/* 104-107 THIRD RCRIS DATA BASE ACCOUNT CODE */
/* 109-111 THIRD RCRIS DATA BASE IMPLEMENTER CODE */
/* 113-116 FOURTH RCRIS DATA BASE ACCOUNT CODE */
/* 118-120 FOURTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 122-125 FIFTH RCRIS DATA BASE ACCOUNT CODE */
/* 127-129 FIFTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 131-134 SIXTH RCRIS DATA BASE ACCOUNT CODE */
/* 136-138 SIXTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 140-143 SEVENTH RCRIS DATA BASE ACCOUNT CODE */
/* 145-147 SEVENTH RCRIS DATA BASE IMPLEMENTER CODE */
/*
/* CLIST PARAMETERS: */
/* . IMPL - USED TO DESIGNATE THE DATA BASE IMPLEMENTER CODE */
/* . LIST - SET TO 'LIST' TO TURN ON DEBUG FEATURES */
/* . BATCH - USED BY BATCH TSO JOB (TO INDICATE BATCH USAGE (Y)) */
/*
/* MODIFIED: */
/*
/* 04-10-91 BNT - ADDED NEW PARAMETER FILE OPTIONS AND FILE NAME */
/* 07-30-91 XHT - ADDED LOGIC TO TEST IF DATA BASE IS IN USE */
/* 08-16-91 XHT - ADDED DISPLAY FOR USERID IF INUSE - CPMS 141685 */
/*****
CONTROL END(ENDO) NOFLUSH MSG MAIN NOLIST NOSYMLIST NOCONLIST
ATTN +
GOTO FINISH

IF &LIST = &STR(LIST) THEN +
CONTROL LIST SYMLIST CONLIST /* DEBUG FEATURE

CLEAR
SET &USR = &SUBSTR(1:3,&SYSPREF)
SET &ACCT = &SUBSTR(4:7,&SYSPREF)
SET &SACT = &ACCT /* INIT. SEARCH ACCOUNT
IF &BATCH NE &STR(Y) THEN +
DO /* DO FOR NON BATCH ONLY
IF &ACCT = &STR(RCRT) +
OR &ACCT = &STR(RCRD) THEN +
DO /* DO FOR RCRT OR RCRD
GETACNT: +
CLEAR

```

```

WRITENR ENTER SUTABLE ACCOUNT (IN LIEU OF &ACCT):
READ &SACT
IF &SACT = &STR() THEN +
  SET &SACT = &ACCT
ELSE +
  DO
    WRITE
    WRITE YOU ENTERED SUTABLE ACCOUNT: &SACT
    WRITE
    WRITENR IS THIS INFORMATION CORRECT? (Y OR N)
    READ &DUM1
    IF &DUM1 = &STR(N) THEN +
      GOTO GETACNT
    ENDO
  ENDO
ENDS
SET &FND = &STR(F) /* FOUND SWITCH (T OR F)
SET &AST = &STR(*) /* USED FOR JOB ROUTING
IF &ACCT = &STR(RCRT) +
OR &ACCT = &STR(RCRD) THEN +
  DO /* DO FOR RCRT OR RCRD
    IF &SYSDSN('RCRT.RCRIS.CLIST(SUAUTOS)') = OK THEN +
      SET &EXPREF = &STR(RCRT)
    ELSE +
      SET &EXPREF = &STR(RCRS)
    IF &SYSDSN('RCRT.RCRIS.SUTABLE.DATA') = OK THEN +
      ALLOC DD(SUTABLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR REUSE
    ELSE +
      ALLOC DD(SUTABLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR REUSE
    ENDO
  ELSE +
    DO
      SET &EXPREF = &STR(RCRS)
      IF &SYSDSN('RCRS.RCRIS.SUTABLE.DATA') = OK THEN +
        ALLOC DD(SUTABLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR REUSE
      ELSE +
        ALLOC DD(SUTABLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR REUSE
      ENDO
    IF &IMPL = &STR() THEN +
      DO
        IF &SUBSTR(2:2,&SACT) NE &STR(Z) THEN +
          DO
            GETIMPL: +
            WRITENR ENTER THREE CHARACTER IMPLEMENTER CODE:
            READ &IMPL
            IF &LENGTH(&IMPL) NE 3 THEN +
              GOTO GETIMPL
            WRITENR &IMPL, IS THIS VALUE CORRECT (Y OR N):
            READ &ANS
            IF &ANS = &STR(N) THEN +
              GOTO GETIMPL
            ENDO
          ELSE +
            SET &IMPL = &SUBSTR(3:4,&SACT)&STR(S)
          ENDO
        IF &LIST NE &STR(LIST) THEN +
          CONTROL NOMSG
          ALLOC DA('&SACT..&IMPL..RCRIS.SECURITY.FOCUS') OLD REUSE
          SET &DBSTAT = &LASTCC
          FREE DA('&SACT..&IMPL..RCRIS.SECURITY.FOCUS')
          IF &DBSTAT = 12 THEN +
            DO
              WRITE

```

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WRITE DATA BASE IS IN USE, SU CANNOT ALLOCATE FILES

WRITE

QSCAN '&SACT..&IMPL..RCRIS.SECURITY.FOCUS'

GOTO FINISH

ENDO

SET &BATJOB = &USR&IMPL&STR(P) /* CREATE BATCH JOB ID

OPENFILE SUTABLE INPUT

GETFILE SUTABLE

SET &SUSTOP = &SUBSTR(10:17,&SUTABLE)

DO WHILE &SUSTOP NE &STR(#####) /* #'S INDICATE EOF ON TABLE

SET &SUINIT = &SUBSTR(1:8,&SUTABLE)

SET &SUACCT = &SUBSTR(85:88,&SUTABLE)

SET &SUIMPL = &SUBSTR(90:92,&SUTABLE)

IF &SACT = &SUACCT +

AND &IMPL = &SUIMPL THEN +

DO

/* SEARCH SUTABLE FOR KEY

SET &FND = &STR(T)

SET &TIM = &SUBSTR(75:78,&SUTABLE)

SET &MACT = &SUBSTR(80:83,&SUTABLE)

IF &LIST NE &STR(LIST) THEN +

CONTROL NOMSG

FREE ATTRLIST(ADCB)

CONTROL MSG

IF &SYSDSN('&SYSPREF..&SUINIT..SUAUTOP.CNTL') = OK THEN +

DO

IF &LIST NE &STR(LIST) THEN +

CONTROL NOMSG

DEL '&SYSPREF..&SUINIT..SUAUTOP.CNTL'

CONTROL MSG

ENDO

ATTR ADCB BLKSIZE(3840) LRECL(80) RECFM(F,B) DSORG(PS)

ALLOC DD(JCLFILE) DA('&SYSPREF..&SUINIT..SUAUTOP.CNTL') +

NEW CATALOG USING(ADCB) SPACE(2,1) TRACKS

SET &SYSOUTTRAP = 100

STATUS &SUINIT

SET &SYSOUTTRAP = 0

SET &LINEO = &SYSOUTLINE

SET &LINE = &STR(&SYSNSUB(1,&SYSOUTLINE&LINEO))

SET &SYSDVAL = &LINE

READDVAL A1 A2 A3 A4

IF &A4 = &STR(EXECUTING) THEN +

DO

/* SU ALREADY EXECUTING

WRITE &LINE

WRITE

WRITE SINK MACHINE ALREADY RUNNING FOR &SUINIT

WRITE

GOTO FINISH

ENDO

ELSE +

DO

/* CHECK NEXT QUEUE STATUS

IF &SUINIT = &STR(#FOCRT4S) THEN +

CMD S &SUINIT,IMPL=&IMPL

ELSE +

CMD S &SUINIT

WRITE SU &SUINIT SUCCESSFULLY STARTED

SET &SUBIT = &STR(T) /* SUBMIT FLAG (T OR F)

SET &SYSOUTTRAP = 100

STATUS (&USR&IMPL&STR(P),&USR&IMPL&STR(S))

SET &SYSOUTTRAP = 0

SET &SUBLINE = &SYSOUTLINE

SET &SUB2 = 1

DO WHILE &SUB2 LE &SUBLINE

SET &LINE2 = &STR(&SYSNSUB(1,&SYSOUTLINE&SUB2))

SET &SYSDVAL = &LINE2

```

READDVAL A1 A2 A3 A4 A5 A6
IF &A6 = &STR(EXECUTION) THEN +
  DO
    /* JOB ALREADY IN HOLD
    SET &SUBIT = &STR(F)
    SET &SUB2 = &SUBLINE + 1
  ENDO
ELSE +
  SET &SUB2 = &SUB2 + 1
ENDO
IF &SUBIT = &STR(T) THEN +
  DO
    /* SUBMIT SU STOP JOB
    OPENFILE JCLFILE OUTPUT
    SET &JOBACCT = &SUBSTR(25:33,&SUTABLE)
    SET &BOX = &SUBSTR(35:38,&SUTABLE)
    IF &SUBSTR(4:7,&SYSPREF) = &STR(RCRT) +
      OR &SUBSTR(4:7,&SYSPREF) = &STR(RCRD) THEN +
      DO
        /* SPECIAL CASE
        SET &JOBACCT = +
          &STR(&SUBSTR(4:7,&SYSPREF)&SUBSTR(29:33,&SUTABLE))
        IF &BATCH NE &STR(Y) THEN +
          DO
            WRITENR ENTER YOUR BOX NUMBER ==>
            READ &BOX
          ENDO
        ENDO
      SET &RMT = &SUBSTR(40:56,&SUTABLE)
      SET &JCLFILE = +
        &STR(//BATJOB JOB (&JOBACCT,&BOX),)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//          'STOP SU',)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//          MSGLEVEL=(1,1),)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//          MSGCLASS=A,)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//          NOTIFY=&USR.)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(/&AST.ROUTE PRINT &RMT)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(/&AST.AFTER &TIM)
      PUTFILE JCLFILE
      SET &JCLFILE = +
        &STR(//TSO          EXEC PGM=IKJEFT01,DYNAMNBR=25)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//SYSTSPRT DD SYSOUT=*)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//SYSTSIN DD *)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(TIME)
      PUTFILE JCLFILE
      SET &JCLFILE = +
        &STR(EX 'RCRS.RCRIS.CLIST(SUAUTOP)' +
          'IMPL(&IMPL) BATCH(Y)')
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(/*)
      PUTFILE JCLFILE
      SET &JCLFILE = &STR(//)
      PUTFILE JCLFILE
      CLOSFILE JCLFILE
      SUBMIT '&SYSPREF..&SUNIT..SUAUTOP.CNTL'
      SE 'SINK MACHINE &SUNIT AUTO START EXECUTED BY &SYSPREF' +
        USER(&BNT) LOGON
    ENDO
  ENDO
ENDO

```

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```
      ENDO
      GETFILE SUTABLE
      SET &SUSTOP = &SUBSTR(10:17,&SUTABLE)
      ENDO
      IF &FND = &STR(F) THEN +
      DO
      WRITE
      WRITE NO ENTRIES FOUND IN SU TABLE FOR YOUR ACCOUNT, &SACT
      WRITE
      ENDO
      CLOSEFILE SUTABLE
      FINISH: +
      IF &LIST NE &STR(LIST) THEN +
      CONTROL NOMSG
      FREE ATTRLIST(ADCB)
      FREE DD(SUTABLE JCLFILE)
      DEL '&SYSPREF..&SUNIT..SUAUTOP.CNTL'
      CONTROL MSG
      EXIT
```

SUSTOP

```

PROC O LIST()
/*****
/* STOP FOR ALL SINK MACHINES BY USERID: CREATED 7/22/91 */
/* CREATE IN RESPONSE TO CPMS # 133736 */
/* SEARCHES THE RCRS.RCRIS.SUTABLE.DATA TABLE FOR A PRIMARY */
/* RESPONSIBLE USERID EQUAL TO THE CURRENT USERID AND THEN */
/* EXECUTES SUAUTOP CLIST FOR EACH EQUAL CONDITION. */
/* DRIVEN BY PARAMETER FILE: RCRS.RCRIS.SUTABLE.DATA */
/* TABLE COLUMNS: (FOR PARAMETERS) */
/* 01-08 SINK MACHINE START ID. */
/* 10-17 SINK MACHINE STOP ID. */
/* 19 HCIPRINT PARAMETER (BLANK = NONE, S = STAT, E = ECHO) */
/* 20-23 GROUP ACCOUNT RESPONSIBLE FOR SINK MACHINE */
/* 25-33 BATCH JOB ACCOUNT CODE */
/* 35-38 BOX CODE */
/* 40-56 REMOTE PRINTER DESIGNATION */
/* 58-60 PRIMARY RESPONSIBLE USERID */
/* 62-64 ALTERNATE RESPONSIBLE USERID */
/* 66-68 RCRIS SUPPORT USERID */
/* 70-73 SU START TIME */
/* 75-78 SU STOP TIME */
/* 80-83 RCRIS MASTER DATA BASE DEFINITION ACCOUNT CODE (MACT) */
/* 85-88 FIRST RCRIS DATA BASE ACCOUNT CODE */
/* 90-92 FIRST RCRIS DATA BASE IMPLEMENTER CODE */
/* 94-97 SECOND RCRIS DATA BASE ACCOUNT CODE */
/* 99-102 SECOND RCRIS DATA BASE IMPLEMENTER CODE */
/* 104-107 THIRD RCRIS DATA BASE ACCOUNT CODE */
/* 109-111 THIRD RCRIS DATA BASE IMPLEMENTER CODE */
/* 113-116 FOURTH RCRIS DATA BASE ACCOUNT CODE */
/* 118-120 FOURTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 122-125 FIFTH RCRIS DATA BASE ACCOUNT CODE */
/* 127-129 FIFTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 131-134 SIXTH RCRIS DATA BASE ACCOUNT CODE */
/* 136-138 SIXTH RCRIS DATA BASE IMPLEMENTER CODE */
/* 140-143 SEVENTH RCRIS DATA BASE ACCOUNT CODE */
/* 145-147 SEVENTH RCRIS DATA BASE IMPLEMENTER CODE */
/*
/* CLIST PARAMETERS:
/* . LIST - WHEN SET TO LIST, TURNS ON DEBUG OPTIONS
/*
/* MODIFIED:
/*
*****/
CONTROL END(ENDO) NOFLUSH MSG MAIN NOLIST NOSYMLIST NOCONLIST
IF &LIST = &STR(LIST) THEN +
  CONTROL LIST SYMLIST CONLIST
IF &LIST NE &STR(LIST) THEN +
  SET &LIST = &STR(.)

SET &PREF = &SYSPREF
ATTN +
  GOTO FINISH

SET &USR = &SUBSTR(1:3,&SYSPREF)
SET &ACCT = &SUBSTR(4:7,&SYSPREF)
SET &FND = &STR(F)

IF &LIST NE &STR(LIST) THEN +
  CONTROL NOMSG
FREE DD(SUTBLE)
CONTROL MSG

```


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```

IF &ACCT = &STR(RCRT) +
OR &ACCT = &STR(RCRD) THEN +
- DO
    IF &SYSDSN('RCRT.RCRIS.CLIST(SUAUTOP)') = OK THEN +
        SET &PROG = &ACCT
    ELSE +
        SET &PROG = &STR(KHDB)
    IF &SYSDSN('RCRT.RCRIS.SUTABLE.DATA') = OK THEN +
        ALLOC DD(SUTBLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
    ELSE +
        ALLOC DD(SUTBLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
    ENDO
ELSE +
    DO
        SET &PROG = &STR(KHDB)
        IF &SYSDSN('RCRS.RCRIS.SUTABLE.DATA') = OK THEN +
            ALLOC DD(SUTBLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
        ELSE +
            ALLOC DD(SUTBLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
        ENDO
    ENDO
OPENFILE SUTBLE INPUT
GETFILE SUTBLE
SET &SUINIT = &SUBSTR(1:8,&SUTBLE)
DO WHILE &SUINIT NE &STR(#####)
    SET &SUACCT = &SUBSTR(85:88,&SUTBLE)
    SET &SUIMPL = &SUBSTR(90:92,&SUTBLE)
    SET &SUPRIM = &SUBSTR(58:60,&SUTBLE)
    SET &SUSECN = &SUBSTR(62:64,&SUTBLE)
    IF &USR = &SUPRIM +
        OR &USR = &SUSECN THEN +
        DO
            SET &FND = &STR(T)
            PROFILE PREFIX(&USR&SUACCT)
            EX '&PROG..RCRIS.CLIST(SUAUTOP)' +
                'IMPL(&SUIMPL) LIST(&LIST)'
        ENDO
    GETFILE SUTBLE
    SET &SUINIT = &SUBSTR(1:8,&SUTBLE)
ENDDO
IF &FND = &STR(F) THEN +
    DO
        WRITE
        WRITE NO ENTRIES FOUND IN SU TABLE FOR YOUR USERID, &USR
        WRITE
    ENDO
FINISH: +
PROFILE PREFIX(&PREF)
IF &LIST NE &STR(LIST) THEN +
    CONTROL NOMSG
CLOSEFILE SUTBLE
FREE DD(SUTBLE)
CONTROL MSG
EXIT

```

SUAUTOP

```

PROC 0 IMPL() FOCVER() LIST() BATCH()
/*****
/* SINK MACHINE AUTO STOP: CREATED 3/22/91
/* DRIVEN BY PARAMETER FILE: RCRS.RCRIS.SUTABLE.DATA
/* TABLE COLUMNS: (FOR PARAMETERS)
/* 01-08 SINK MACHINE START ID.
/* 10-17 SINK MACHINE STOP ID.
/* 19 HLIPRINT PARAMETER (BLANK = NONE, S = STAT, E = ECHO)
/* 20-23 GROUP ACCOUNT RESPONSIBLE FOR SINK MACHINE
/* 25-33 BATCH JOB ACCOUNT CODE
/* 35-38 BOX CODE
/* 40-56 REMOTE PRINTER DESIGNATION
/* 58-60 PRIMARY RESPONSIBLE USERID
/* 62-64 ALTERNATE RESPONSIBLE USERID
/* 66-68 RCRIS SUPPORT USERID
/* 70-73 SU START TIME
/* 75-78 SU STOP TIME
/* 80-83 RCRIS MASTER DATA BASE DEFINITION ACCOUNT CODE (MACT)
/* 85-88 FIRST RCRIS DATA BASE ACCOUNT CODE
/* 90-92 FIRST RCRIS DATA BASE IMPLEMENTER CODE
/* 94-97 SECOND RCRIS DATA BASE ACCOUNT CODE
/* 99-102 SECOND RCRIS DATA BASE IMPLEMENTER CODE
/* 104-107 THIRD RCRIS DATA BASE ACCOUNT CODE
/* 109-111 THIRD RCRIS DATA BASE IMPLEMENTER CODE
/* 113-116 FOURTH RCRIS DATA BASE ACCOUNT CODE
/* 118-120 FOURTH RCRIS DATA BASE IMPLEMENTER CODE
/* 122-125 FIFTH RCRIS DATA BASE ACCOUNT CODE
/* 127-129 FIFTH RCRIS DATA BASE IMPLEMENTER CODE
/* 131-134 SIXTH RCRIS DATA BASE ACCOUNT CODE
/* 136-138 SIXTH RCRIS DATA BASE IMPLEMENTER CODE
/* 140-143 SEVENTH RCRIS DATA BASE ACCOUNT CODE
/* 145-147 SEVENTH RCRIS DATA BASE IMPLEMENTER CODE
/*
/* CLIST PARAMETERS:
/* . FOCVER - USED TO TEST A NEW FOCUS SOFTWARE VERSION
/* . LIST - SET TO 'LIST' TO TURN ON DEBUG FEATURES
/* . BATCH - USED BY BATCH TSO JOB (TO INDICATE BATCH USAGE (Y))
/* . IMPL - USED TO DESIGNATE THE DATA BASE IMPLEMENTER CODE
/*
/* MODIFIED:
/*
/* 04-10-91 BNT - ADDED NEW PARAMETER FILE OPTIONS AND FILE NAME
/* 07-01-91 XHT - ADDED SU NAME TO TEMPORARY FILES FOR UNIQUENESS
/* 10-28-91 XHT - CPMS ITEM #152540
/* BATCH JOB TIMED OUT (S322) WAITING FOR USER TO
/* LOGOFF. MODIFIED CLIST TO DETERMINE ONLINE USERS
/* VIA GQSCAN AND A PROGRAM CALL FOR WAIT STATE.
*****/
CONTROL END(ENDO) NOFLUSH MSG MAIN NOLIST NOSYMLIST NOCONLIST

IF &LIST = &STR(LIST) THEN +
CONTROL LIST CONLIST SYMLIST

ATTN +
GOTO FINISH
IF &FOCVER NE &STR() THEN +
IF &SUBSTR(1:1,&FOCVER) NE &STR(.) THEN +
SET &FOCVER = &STR(.)&FOCVER

CLEAR
SET &USRCHK = &STR(T)
SET &USR = &SUBSTR(1:3,&SYSPREF)

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SET &ACCT = &SUBSTR(4:7,&SYSPREF)
SET &SACT = &ACCT                                /* INITIALIZE SEARCH ACCOUNT
IF &BATCH NE &STR(Y) THEN +
DO                                                    /* NOT A BATCH JOB
    IF (&ACCT = &STR(RCRT) +
        OR &ACCT = &STR(RCRD)) THEN +
        DO                                            /* ONLY FOR RCRT AND RCRD
            GETACNT: +
            CLEAR
            WRITE
            WRITENR ENTER SUTABLE ACCOUNT (IN LIEU OF &ACCT):
            READ &SACT
            IF &SACT = &STR() THEN +
                SET &SACT = &ACCT
            ELSE +
                DO
                    WRITE
                    WRITE YOU ENTERED SUTABLE ACCOUNT: &SACT
                    WRITE
                    WRITENR IS THIS INFORMATION CORRECT? (Y OR N)
                    READ &DUM1
                    IF &DUM1 = &STR(N) THEN +
                        GOTO GETACNT
                ENDO
            ENDO
        ENDO
    SET &FND = &STR(F)                                /* FOUND FLAG (T OR F)
    SET &AST = &STR(*)                                /* USED FOR JOB ROUTING
    IF (&ACCT = &STR(RCRT) +
        OR &ACCT = &STR(RCRD)) THEN +
        DO                                            /* ONLY FOR RCRT AND RCRD
            IF &SYSDSN('RCRT.RCRIS.CLIST(SUAUTOP)') = OK THEN +
                SET &EXPREF = &STR(RCRT)
            ELSE +
                SET &EXPREF = &STR(RCRS)
            IF &SYSDSN('RCRT.RCRIS.SUTABLE.DATA') = OK THEN +
                ALLOC DD(SUTABLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
            ELSE +
                ALLOC DD(SUTABLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
            ENDO
        ELSE +
            DO
                SET &EXPREF = &STR(RCRS)
                IF &SYSDSN('RCRS.RCRIS.SUTABLE.DATA') = OK THEN +
                    ALLOC DD(SUTABLE) DA('RCRS.RCRIS.SUTABLE.DATA') SHR
                ELSE +
                    ALLOC DD(SUTABLE) DA('RCRT.RCRIS.SUTABLE.DATA') SHR
            ENDO
        IF &IMPL = &STR() THEN +
            DO
                IF &SUBSTR(2:2,&SACT) NE &STR(Z) THEN +
                    DO
                        GETIMPL: +
                        WRITE
                        WRITENR ENTER THREE CHARACTER IMPLEMENTER CODE:
                        READ &IMPL
                        IF &LENGTH(&IMPL) NE 3 THEN +
                            GOTO GETIMPL
                        WRITE
                        WRITENR &IMPL, IS THIS VALUE CORRECT (Y OR N):
                        READ &ANS
                        IF &ANS = &STR(N) THEN +
                            GOTO GETIMPL
                    ENDO
                ENDO
            ENDO
        ENDO
    ENDO

```

```

      ENDO
    ELSE +
      SET &IMPL = &SUBSTR(3:4,&SACT)&STR(S)
    ENDO
  SET &BATJOB = &USR&IMPL&STR(S)          /* CREATE BATCH JOB ID
  OPENFILE SUTABLE INPUT
  GETFILE SUTABLE
  SET &SUSTOP = &SUBSTR(10:17,&SUTABLE)
  DO WHILE &SUSTOP NE &STR(#####)      /* #'S INDICATE EOF ON TABLE
    SET &SUINIT = &SUBSTR(1:8,&SUTABLE)
    SET &SUACCT = &SUBSTR(85:88,&SUTABLE)
    SET &SUIMPL = &SUBSTR(90:92,&SUTABLE)
    IF &SACT = &SUACCT +
      AND &IMPL = &SUIMPL THEN +
        DO                                /* KEYS FOUND IN SUTABLE
          SET &FND = &STR(T)
          SET &TIM = &SUBSTR(70:73,&SUTABLE)
          SET &ACNT = &SUBSTR(85:88,&SUTABLE)
          SET &MACT = &SUBSTR(80:83,&SUTABLE)
          IF &LIST NE &STR(LIST) THEN +
            CONTROL NOMSG
            FREE ATTRLIST(ADCB)
            CONTROL MSG
            IF &SYSOSN('&SYSPREF..&SUINIT..SUAUTOS.CNTL') = OK THEN +
              DO
                IF &LIST NE &STR(LIST) THEN +
                  CONTROL NOMSG
                  FREE DA('&SYSPREF..&SUINIT..SUAUTOS.CNTL')
                  DEL '&SYSPREF..&SUINIT..SUAUTOS.CNTL'
                  CONTROL MSG
                ENDO
                ATTR ADCB BLKSIZE(3840) LRECL(80) RECFM(F,B) DSORG(PS)
                ALLOC DD(JCLFILE) DA('&SYSPREF..&SUINIT..SUAUTOS.CNTL') +
                  NEW CATALOG USING(ADCB) SPACE(2,1) TRACKS
                SET &SYSOUTTRAP = 100
                STATUS &SUINIT
                SET &SYSOUTTRAP = 0
                SET &LINENO = &SYSOUTLINE
                /* CHECK STATUS OF SU
                SET &LINE = &STR(&SYSNSUB(1,&SYSOUTLINE&LINENO))
                SET &SYSDVAL = &LINE
                READDVAL A1 A2 A3 A4
                IF &A4 = &STR(EXECUTING) THEN +
                  DO
                    /* SU IS EXECUTING
                    DO WHILE &USRCHK = &STR(T) /* TEST IF USERS ARE ON
                      SET &SYSOUTTRAP = 999
                      GOSCAN '&SACT..&IMPL..RCRIS.SECURITY.FOCUS'
                      SET &SYSOUTTRAP = 0
                      SET &LINENO = &SYSOUTLINE
                      SET &WAIT5 = &STR(F)
                      IF &LIST = &STR(LIST) THEN +
                        SET &SUBX = 2
                      ELSE +
                        SET &SUBX = 1
                      DO WHILE &SUBX LE &LINENO /* USER ONLINE TEST
                        SET &LINE = &STR(&SYSNSUB(1,&SYSOUTLINE&SUBX))
                        SET &SYSDVAL = &LINE
                        READDVAL A1 A2 A3
                        IF &A1 NE &STR(DATASET) +
                          AND &A1 NE &STR(&SUINIT) THEN +
                            DO /* USER(S) ARE ONLINE
                              WRITE USER &A1 ON SINK MACHINE &SUINIT
                              SET &WAIT5 = &STR(T)
                              SEND +

```

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        'SINK MACHINE &SUINIT COMING DOWN IN 5 MINUTES' +
        USER(&A1) NOW NOWAIT
    ENDO
    SET &SUBX = &SUBX + 1
    ENDO /* END USER ONLINE TEST
    SET &KNT = 1
    IF &WAIT5 = &STR(F) THEN +
    SET &USRCHK = &STR(F)
    ELSE +
    DO /* WAIT 5 MINUTES
    CALL 'RCRS.RCRIS.LOADLIB(WAITER)' '/300'
    SET &KNT = &KNT + 1
    IF &BATCH = &STR(Y) THEN +
    IF &KNT > 1 THEN +
    DO
    SET &WAIT5 = &STR(F)
    SET &USRCHK = &STR(F)
    ENDO
    ELSE + /* WAIT ONCE FOR ONLINE */
    DO
    SET &WAIT5 = &STR(F)
    SET &USRCHK = &STR(F)
    ENDO
    ENDO /* END WAIT 5 MINUTES */
    ENDO /* END USER ONLINE CHECK
    CMD S &SUSTOP
    WRITE
    WRITE SINK MACHINE &SUINIT HAS BEEN SUCCESSFULLY STOPPED
    WRITE
    SET &SUBIT = &STR(T)
    SET &SYSOUTTRAP = 100
    STATUS (&USR&IMPL&STR(S),&USR&IMPL&STR(P))
    SET &SYSOUTTRAP = 0
    SET &SUBLINE = &SYSOUTLINE
    SET &SUB2 = 1
    DO WHILE &SUB2 LE &SUBLINE /* TEST FOR JOB IN QUEUE
    SET &LINE2 = &STR(&SYSNSUB(1,&SYSOUTLINE&SUB2))
    SET &SYSDVAL = &LINE2
    READDVAL A1 A2 A3 A4 A5 A6
    IF &A6 = &STR(EXECUTION) THEN +
    DO
    SET &SUBIT = &STR(F) /* JOB ALREADY IN QUEUE
    SET &SUB2 = &SUBLINE + 1
    ENDO
    ELSE +
    SET &SUB2 = &SUB2 + 1
    ENDO /* END TEST FOR JOB
    IF &SUBIT = &STR(T) THEN +
    DO /* SUBMIT START JOB
    SET &JOBACCT = &SUBSTR(25:33,&SUTABLE)
    SET &BOX = &SUBSTR(35:38,&SUTABLE)
    IF &SUBSTR(4:7,&SYSPREF) = &STR(RCRT) +
    OR &SUBSTR(4:7,&SYSPREF) = &STR(RCRD) THEN +
    DO
    SET &JOBACCT = +
    &STR(&SUBSTR(4:7,&SYSPREF)&SUBSTR(29:33,&SUTABLE))
    IF &BATCH NE &STR(Y) THEN +
    DO
    WRITENR ENTER YOUR BOX NUMBER ==>
    READ &BOX
    ENDO
    ENDO
    SET &RMT = &SUBSTR(40:56,&SUTABLE)
    OPENFILE JCLFILE OUTPUT

```

00760005

```

SET &JCLFILE = &STR(//&BATJOB JOB (&JOBACCT,&BOX),)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//          'START SU',)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//          MSGLEVEL=(1,1),)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//          MSGCLASS=A,)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//          NOTIFY=&USR.)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//&AST.ROUTE PRINT &RMT)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//&AST.AFTER &TIM)
PUTFILE JCLFILE
SET &JCLFILE = +
    &STR(//TSO          EXEC PGM=IKJEFT01,DYNAMNBR=25)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//SYSTSPRT DD SYSOUT=*)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//SYSTSIN DD *)
PUTFILE JCLFILE
SET &JCLFILE = &STR(TIME)
PUTFILE JCLFILE
SET &JCLFILE = +
    &STR(EX 'EXPREF..RCRIS.CLIST(SUAUTOS)' +
        'IMPL(&IMPL) BATCH(Y)')
PUTFILE JCLFILE
SET &JCLFILE = &STR(/*)
PUTFILE JCLFILE
SET &JCLFILE = &STR(//)
PUTFILE JCLFILE
CLOSFILE JCLFILE
SUBMIT '&SYSPREF..&SUNIT..SUAUTOS.CNTL'
SE 'AUTO STOP FOR SINK MACHINE &SUNIT EXECUTED BY &SYSPREF' +
    USER(BNT) LOGON
    ENDO                                /* END SUBMIT START JOB
    ENDO                                /* END SU IS EXECUTING
ELSE +
    DO
        WRITE
        WRITE SINK MACHINE &SUNIT IS NOT RUNNING
        WRITE
    ENDO
    ENDO                                /* END SU KEYS FOUND
    GETFILE SUTABLE
    SET &SUSTOP = &SUBSTR(10:17,&SUTABLE)
    ENDO                                /* END SUTABLE SEARCH
    IF &FND = &STR(F) THEN +
        DO
            WRITE
            WRITE NO ENTRIES FOUND IN SU TABLE FOR YOUR ACCOUNT, &ACCT
            WRITE
        ENDO
        CLOSFILE SUTABLE
    FINISH: +
    IF &LIST NE &STR(LIST) THEN +
        CONTROL NOMSG
        FREE DD(JCLFILE)
        FREE DD(SUTABLE)
        FREE ATTRLIST(ADCB)
        DEL '&SYSPREF..&SUNIT..SUAUTOS.CNTL'
        CONTROL MSG
        EXIT

```

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PROFILSU

```
*****
-* PROGRAM NAME: PROFILSU
-*
-* PROGRAM DESCRIPTION: 'PROFILSU' IS A SPECIAL FOCEXEC WHICH WILL BE
-* EXECUTED EVERY TIME FOCUS IS INVOKED. IT IS USED TO SET UP
-* SYSTEM DEFAULTS, ALLOCATE FILES AND EVENTUALLY TO EXECUTE
-* MAIN MENU DRIVER 'RCRAMENU'.
*****
-* --- MAINTENANCE
-* 07/15/91 - XHT, ADDED MULTI-THREADED REPORTING TO USE STATEMENT
-*
*****
-* --- SET SYSTEM DEFAULTS
-*
*****
-* 10/05/89 -READ FROM FILE ACC FOR PREFIX INFO
*****
-READ ACC &&ACCT.A4. &&PROG.A4. &&DVLP.A4. &&TEST.A4. &&BPREF.A5.,
-      ,&&IMPL.A3. &&DTP.A1. &&NEXT.A5.
-*
-*SET ECHO = ALL;
-SET &&DBPROG = &&BPREF ) &&IMPL;
-SET &&ACT = &&ACCT;
-SET &&SYSTEM = 'TSO';
-SET &&BATCHSEL = 'N';
-SET &&PRINTCMD = 'PRINTOFF';
-SET &&TMPACK = 'DISK';
-SET &&TWKPACK = 'DISK';
-*
-SET &&PLACE = ' ';
-SET &&STATE = ' ';
-SET &&TITLE = ' ';
-SET &&EPA = ' ';
-SET &&PRT = ' ';
-SET &&FIL1 = '2';
-SET &&TNT = 0;
-SET &&DUM = ' ';
-*
SET PREFIX = &&PROG
SET MSG = OFF
SET PAUSE = OFF
SET LINES = 55
SET LINES/PAGE=55
-RUN
-*
USE
AGNDES ON SYNCA
AGNDES LOCAL
AREADES ON SYNCA
AREADES LOCAL
CAAREA ON SYNCA
CAAREA LOCAL
CACONST ON SYNCA
CACONST LOCAL
CAINST ON SYNCA
CAINST LOCAL
CEENFOR ON SYNCA
CEENFOR LOCAL
CEEVAL ON SYNCA
CEEVAL LOCAL
CETICK ON SYNCA
```

```

CETICK    LOCAL
CEVIOL    ON SYNCA
CEVIOL    LOCAL
COMTMNT    ON SYNCA
COMTMNT    LOCAL
EREADES    ON SYNCA
EREADES    LOCAL
ETEMPLAT    ON SYNCA
ETEMPLAT    LOCAL
EVENT      ON SYNCA
EVENT      LOCAL
HANDLER1    ON SYNCA
HANDLER1    LOCAL
HANDLER2    ON SYNCA
HANDLER2    LOCAL
MOUTABLE    ON SYNCA
MOUTABLE    LOCAL
NAME        ON SYNCA
NAME        LOCAL
PERMPROJ    ON SYNCA
PERMPROJ    LOCAL
PESTATUS    ON SYNCA
PESTATUS    LOCAL
PEVENT      ON SYNCA
PEVENT      LOCAL
PMCOMMIT    ON SYNCA
PMCOMMIT    LOCAL
PROCCODE    ON SYNCA
PROCCODE    LOCAL
PUNIT       ON SYNCA
PUNIT       LOCAL
REMEDYCD    ON SYNCA
REMEDYCD    LOCAL
RTYPDES     ON SYNCA
RTYPDES     LOCAL
SECURITY    ON SYNCA
SECURITY    LOCAL
SPECPROC    ON SYNCA
SPECPROC    LOCAL
SPECUOM     ON SYNCA
SPECUOM     LOCAL
SPEPECODE   ON SYNCA
SPEPECODE   LOCAL
SUMMARY     ON SYNCA
SUMMARY     LOCAL
UOMTYPE     ON SYNCA
UOMTYPE     LOCAL
UPOTABLE    ON SYNCA
UPOTABLE    LOCAL
WASTECODE   ON SYNCA
WASTECODE   LOCAL
END
-RUN
-#
EX DBRPHEAD
-#
LET MENU = EX PROFILE
EX FRONTEND
OFFLINE CLOSE
ONLINE
TSO FREE DD(OFFLINE)
-RUN
FIN

```


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SUTABLE

#FOC1MAS	#FOC1MAP	K1DB	K1DBRCRSP	NIWN	HOLD	IWN	UHY	ZOJ	0700	1800	K1DB	K1DB	MAR	MRP	BAK	VFB	LIT
#FOC1CTS	#FOC1CTP	K1DB	K1DBRCRSP	NIWN	HOLD	IWN	UHY	ZOJ	0700	1800	K1DB	K1DB	CTR	MRP	BAK	VFB	LIT
#FOC2NJS	#FOC2NJP	K2DB	K2DBRCRSP	MLSU	HOLD	AEL	OER	ZOJ	0605	2000	K2DB	K2DB	NJR	MRP	BAK	VFB	LIT
#FOC2NYS	#FOC2NYP	K2DB	K2DBRCRSP	MLSU	HOLD	AEL	OER	ZOJ	0605	2000	K2DB	K2DB	NYR	MRP	BAK	VFB	LIT
#FOC2PRS	#FOC2PRP	K2DB	K2DBRCRSP	MLSU	HOLD	AEL	OER	ZOJ	0600	2000	K2DB	K2DB	PRR	MRP	BAK	VFB	LIT
#FOC3DCS	#FOC3DCP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	OCR	MRP	BAK	VFB	LIT
#FOC3DES	#FOC3DEP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	DER	MRP	BAK	VFB	LIT
#FOC3MDS	#FOC3MDP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	MOR	MRP	BAK	VFB	LIT
#FOC3PAS	#FOC3PAP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	PAR	MRP	BAK	VFB	LIT
#FOC3VAS	#FOC3VAP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	VAR	MRP	BAK	VFB	LIT
#FOC3WVS	#FOC3WVP	K3DB	K3DBRCRSP	MNGA	HOLD	HGA	MRI	ZOJ	0600	2000	K3DB	K3DB	VWR	MRP	BAK	VFB	LIT
#FOC5ILS	#FOC5ILP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	ILR	MRP	BAK	VFB	LIT
#FOC5INS	#FOC5INP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	INR	MRP	BAK	VFB	LIT
#FOC5NIS	#FOC5NIP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	MIR	MRP	BAK	VFB	LIT
#FOC5MNS	#FOC5MNP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	MNR	MRP	BAK	VFB	LIT
#FOC5OHS	#FOC5OHP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	ONR	MRP	BAK	VFB	LIT
#FOC5WIS	#FOC5WIP	K5DB	K5DBRCRSP	B106	HOLD	ODB	MRO	ZOJ	0600	2000	K5DB	K5DB	WIR	MRP	BAK	VFB	LIT
#FOC6ARS	#FOC6ARP	K6DB	K6DBRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	K6DB	K6DB	ARR	MRP	BAK	VFB	LIT
#FOC6LAS	#FOC6LAP	K6DB	K6DBRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	K6DB	K6DB	LAR	MRP	BAK	VFB	LIT
#FOC6NMS	#FOC6NMP	K6DB	K6DBRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	K6DB	K6DB	MNR	MRP	BAK	VFB	LIT
#FOC6OKS	#FOC6OKP	K6DB	K6DBRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	K6DB	K6DB	OKR	MRP	BAK	VFB	LIT
#FOC6TXS	#FOC6TXP	K6DB	K6DBRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	K6DB	K6DB	TXR	MRP	BAK	VFB	LIT
#FOC8WYS	#FOC8WYP	K8DB	K8DBRCRSP	MLRK	HOLD	LRK	JON	ZOJ	0600	2000	K8DB	K8DB	WYR	MRP	BAK	VFB	LIT
#FOC9AZS	#FOC9AZP	K9DB	K9DBRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	K9DB	K9DB	AZR	MRP	BAK	VFB	LIT
#FOC9CAS	#FOC9CAP	K9DB	K9DBRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	K9DB	K9DB	CAR	MRP	BAK	VFB	LIT
#FOC9HIS	#FOC9HIP	K9DB	K9DBRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	K9DB	K9DB	HIR	MRP	BAK	VFB	LIT
#FOC9NVS	#FOC9NVP	K9DB	K9DBRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	K9DB	K9DB	NVR	MRP	BAK	VFB	LIT
#FOCRT4S	#FOCRT4P	KHDB	KHDBRCRSP	C802	HOLD	DPA	WUJ	ZOJ	0600	2000	KHDB	KHDB	PRR	BNG	BEF	VFB	LIT
#FOCSARS	#FOCSARP	KZAR	KZARRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	KZAR	KZAR	ARS	MRP	BAK	VFB	LIT
#FOCSAZS	#FOCSAZP	KZAZ	KZAZRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	KZAZ	KZAZ	AZS	MRP	BAK	VFB	LIT
#FOCSCAS	#FOCSCAP	KZCA	KZCARCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	KZCA	KZCA	CAS	MRP	BAK	VFB	LIT
#FOCSCOS	#FOCSCOP	KZCO	KZCORCRSP	MNNA	HOLD	MNA	LRK	ZOJ	0600	2000	KZCO	KZCO	COS	MRP	BAK	VFB	LIT
#FOCSFLS	#FOCSFLP	KZFL	KZFLRCRSP	MRGD	HOLD	RGD	LLN	ZOJ	0600	2000	KZFL	KZFL	FLS	MRP	BAK	VFB	LIT
#FOCSILS	#FOCSILP	KZIL	KZILRCRSP	MMMP	HOLD	MMP	MRO	ZOJ	0600	2000	KZIL	KZIL	ILS	MRP	BAK	VFB	LIT
#FOCSKSS	#FOCSKSP	KZKS	KZKSRCRSP	MBWM	HOLD	BWM	RUJ	ZOJ	0600	2000	KZKS	KZKS	KSS	MRP	BAK	VFB	LIT
#FOCSLAS	#FOCSLAP	KZLA	KZLARCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	KZLA	KZLA	LAS	MRP	BAK	VFB	LIT
#FOCSNIS	#FOCSNIP	KZNI	KZNIRCRSP	FKTP	HOLD	KTP	MRO	ZOJ	0600	2000	KZNI	KZNI	NIS	MRP	BAK	VFB	LIT
#FOCSMOS	#FOCSMOP	KZMO	KZMORCRSP	MEEW	HOLD	EEW	KDD	ZOJ	0600	2000	KZMO	KZMO	MOS	MRP	BAK	VFB	LIT
#FOCSMTS	#FOCSMTP	KZMT	KZMTRCRSP	MNIG	HOLD	NIG	LRK	ZOJ	0600	2000	KZMT	KZMT	MTS	MRP	BAK	VFB	LIT
#FOCSNES	#FOCSNEP	KZNE	KZNERCRSP	MBDB	HOLD	BDB	BND	ZOJ	0600	2000	KZNE	KZNE	NES	MRP	BAK	VFB	LIT
#FOCSNMS	#FOCSNMP	KZNM	KZNMRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	KZNM	KZNM	NMS	MRP	BAK	VFB	LIT
#FOCSNVS	#FOCSNVP	KZNV	KZNVRCRSP	MQVC	HOLD	QVC	QJC	ZOJ	0600	2000	KZNV	KZNV	NVS	MRP	BAK	VFB	LIT
#FOCSNYS	#FOCSNYP	KZNY	KZNYRCRSP	MLSU	HOLD	AEL	OER	ZOJ	0605	2000	KZNY	KZNY	NYS	MRP	BAK	VFB	LIT
#FOCSOHS	#FOCSOHP	KZOH	KZOHRCRSP	MDPT	HOLD	DPT	MRO	ZOJ	0600	2000	KZOH	KZOH	OHS	MRP	BAK	VFB	LIT
#FOCSOKS	#FOCSOKP	KZOK	KZOKRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	KZOK	KZOK	OKS	MRP	BAK	VFB	LIT
#FOCSPRS	#FOCSPRP	KZPR	KZPRRCRSP	MLSU	HOLD	AEL	OER	ZOJ	0600	2000	KZPR	KZPR	PRS	MRP	BAK	VFB	LIT
#FOCSSDS	#FOCSSDP	KZSD	KZSDRCRSP	MLRK	HOLD	LRK	CLJ	ZOJ	0600	2000	KZSD	KZSD	SDS	MRP	BAK	VFB	LIT
#FOCSTXS	#FOCSTXP	KZTX	KZTXRCRSP	MPNT	HOLD	PNT	USJ	ZOJ	0600	2000	KZTX	KZTX	TXS	MRP	BAK	VFB	LIT
#FOCSUTS	#FOCSUTP	KZUT	KZUTRCRSP	MKTN	HOLD	KTN	LRK	ZOJ	0600	2000	KZUT	KZUT	UTS	MRP	BAK	VFB	LIT

(DENOTES END OF FILE FOR CLIST'S)

SINK MACHINE PARAMETER TABLE

SEPTEMBER 27, 1991

TABLE COLUMNS: (FOR PARAMETERS)

01-08	SINK MACHINE START ID.
10-17	SINK MACHINE STOP ID.
20-23	GROUP ACCOUNT
25-33	BATCH JOB ACCOUNT CODE
35-38	BOX CODE
40-56	REMOTE PRINTER DESIGNATION
58-60	PRIMARY RESPONSIBLE USERID
62-64	ALTERNATE RESPONSIBLE USERID

66-68 RCRIS SUPPORT USERID
70-73 SU START TIME
75-78 SU STOP TIME
80-83 RCRIS MASTER DATA BASE DEFINITION ACCOUNT CODE (MACT #FOCRT4S)
85-88 FIRST RCRIS DATA BASE ACCOUNT CODE | PRIMARY MATCH
90-92 FIRST RCRIS DATA BASE IMPLEMENTER CODE | FIELDS
94-96 BACKUP SU ADMINISTRATOR
98-100 BACKUP SU ADMINISTRATOR
102-104 BACKUP SU ADMINISTRATOR
106-108 BACKUP SU ADMINISTRATOR

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SUSTATUS

```
/* *****  
/* PROGRAM NAME: SUPRO  
/* DESCRIPTION: MAIN DRIVER FOR SINK MACHINE  
/* PROGRAMMER: GSC  
/* DATE WRITTEN: 03/05/92 KW  
/* DATE CHANGED:  
/* *****  
PROC 0 LIST(NUL)  
  
PROFILE NOMSGID  
IF &LIST = LIST THEN +  
    CONTROL MSG NOFLUSH END(ENDO) LIST CONLIST SYMLIST  
ELSE +  
    CONTROL MSG NOFLUSH END(ENDO)  
  
ATTN EXIT  
  
/* --- ASSIGN PRODUCTION, DEVELOPMENT AND TEST ACCOUNTS  
SET &PROG = &STR(KHDB)  
SET &TEST = &STR(RCRT)  
SET &DVLP = &STR(RCRD)  
  
/* CHECK THAT USER IS NOT LOGGED INTO A GROUP ACCOUNT  
IF &LENGTH(&STR(&SYSPREF)) NE 7 OR +  
    &SUBSTR(1:3,&SYSPREF) NE &SYSUID THEN DO  
    WRITE  
    WRITE ***** INVALID ACCOUNT PREFIX -- PROGRAM TERMINATED *****  
    WRITE  
    EXIT  
ENDO  
  
/* --- SET DEFAULT FOR RMODE OR PROMPT DEPENDING ON USER ACCOUNT.  
SELECT &SUBSTR(4:7,&SYSPREF)  
    WHEN (RCRD ) RCRT ) RCRS ) RCRO ) WPER) DO  
        GETMODE: +  
        CLR3270  
        WRITENR ENTER MODE: (P)RODUCTION, (T)EST, (D)EVELOPMENT, +  
            (Q)UIT ? &STR()  
        READ &MODE  
        SELECT &STR(&MODE)  
            WHEN (Q) EXIT  
            WHEN (D ) T ) P)  
            OTHERWISE DO  
                WRITE  
                WRITENR INVALID VALUE -- PRESS ENTER TO CONTINUE:  
                READ &DUMMY  
                GOTO GETMODE  
            ENDO /* --- OTHERWISE  
        ENDO /* --- SELECT  
    ENDO /* --- WHEN  
    OTHERWISE SET &MODE = &STR(P)  
ENDO  
  
CLR3270  
WRITE LOADING SU STATUS MENU .....  
  
IF &SYSDSN(TABLES) = OK THEN +  
    SET &TBLS = &STR(TABLES)  
ELSE +  
    SET &TBLS = &STR( )
```

```

ATTN OFF
FDSN SYSPROC,SYSP,NOW
FDSN ISPMLIB,MDSNRPT,NOW
FDSN ISPPLIB,PDSNRPT,NOW
FDSN ISPSLIB,SDSNRPT,NOW
FDSN ISPTLIB,TDSNRPT,NOW

SELECT (&MODE)
  WHEN (P) DO
    ALLOC DD(SYSPROC) DA('&PROG..RCRIS.CLIST' +
      &SYSP) SHR REUSE
    ALLOC DD(ISPMLIB) DA('&PROG..RCRIS.MSGS' +
      &MDSNRPT) SHR REUSE
    ALLOC DD(ISPPLIB) DA('&PROG..RCRIS.PANELS' +
      &PDSNRPT) SHR REUSE
    ALLOC DD(ISPSLIB) DA('&PROG..RCRIS.SKELS' +
      &SDSNRPT) SHR REUSE
    ALLOC DD(ISPTLIB) DA( &TBLS +
      '&PROG..RCRIS.TABLES' +
      &TDSNRPT) SHR REUSE
  ENDO
  WHEN (T) DO
    ALLOC DD(SYSPROC) DA('&TEST..RCRIS.CLIST' +
      '&PROG..RCRIS.CLIST' +
      &SYSP) SHR REUSE
    ALLOC DD(ISPMLIB) DA('&TEST..RCRIS.MSGS' +
      '&PROG..RCRIS.MSGS' +
      &MDSNRPT) SHR REUSE
    ALLOC DD(ISPPLIB) DA('&TEST..RCRIS.PANELS' +
      '&PROG..RCRIS.PANELS' +
      &PDSNRPT) SHR REUSE
    ALLOC DD(ISPSLIB) DA('&TEST..RCRIS.SKELS' +
      '&PROG..RCRIS.SKELS' +
      &SDSNRPT) SHR REUSE
    ALLOC DD(ISPTLIB) DA( &TBLS +
      '&TEST..RCRIS.TABLES' +
      '&PROG..RCRIS.TABLES' +
      &TDSNRPT) SHR REUSE
  ENDO
  WHEN (D) DO
    ALLOC DD(SYSPROC) DA('&DVL..RCRIS.CLIST' +
      '&TEST..RCRIS.CLIST' +
      '&PROG..RCRIS.CLIST' +
      &SYSP) SHR REUSE
    ALLOC DD(ISPMLIB) DA('&DVL..RCRIS.MSGS' +
      '&TEST..RCRIS.MSGS' +
      '&PROG..RCRIS.MSGS' +
      &MDSNRPT) SHR REUSE
    ALLOC DD(ISPPLIB) DA('&DVL..RCRIS.PANELS' +
      '&TEST..RCRIS.PANELS' +
      '&PROG..RCRIS.PANELS' +
      &PDSNRPT) SHR REUSE
    ALLOC DD(ISPSLIB) DA('&DVL..RCRIS.SKELS' +
      '&TEST..RCRIS.SKELS' +
      '&PROG..RCRIS.SKELS' +
      &SDSNRPT) SHR REUSE
    ALLOC DD(ISPTLIB) DA( &TBLS +
      '&DVL..RCRIS.TABLES' +
      '&TEST..RCRIS.TABLES' +
      '&PROG..RCRIS.TABLES' +
      &TDSNRPT) SHR REUSE
  ENDO
  OTHERWISE EXIT
END / * --- SELECT

```

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ATTN GOTO RESET

/* --- START THE ISPF ENVIRONMENT.

ISPSTART CMD(XSUSTAT1 &DVLP &TEST &PROG &MODE &LIST)

/* --- WRITE EXIT MESSAGE AT END OF RUN.

RESET: +

ATTN OFF

CLR3270

WRITE

WRITE LEAVING THE SU STATUS MENU

WRITE

/* --- AT END OF RUN, RESTORE ALL ALLOCATIONS BACK TO SAVED VALUES.

IF &LIST NE &STR(LIST) THEN +

CONTROL NOMSG

FREE DD(SYSPARM)

CONTROL MSG

ALLOC DD(SYSPROC) DA(&SYSP) SHR REUSE

ALLOC DD(ISPMLIB) DA(&MDSNRPT) SHR REUSE

ALLOC DD(ISPPLIB) DA(&PDSNRPT) SHR REUSE

ALLOC DD(ISPSLIB) DA(&SDSNRPT) SHR REUSE

ALLOC DD(ISPTLIB) DA(&TDSNRPT) SHR REUSE

EXIT

