JD Edwards World

Computer Aided Software Engineering Guide Release A9.3

E21955-02

April 2013



JD Edwards World Computer Aided Software Engineering Guide, Release A9.3

E21955-02

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Preface

Welcome to the JD Edwards World Computer Aided Software Engineering Guide.

Audience

This guide is intended for implementers and end users of JD Edwards World Computer Aided Software Engineering.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

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Related Documents

You can access related documents from the JD Edwards World Release Documentation Overview pages on My Oracle Support. Access the main documentation overview page by searching for the document ID, which is 1362397.1, or by using this link:

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1362397.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Overview to Computer Aided Software Engineering (CASE)

This chapter contains these topics:

- Section 1.1, "System Integration,"
- Section 1.2, "Features,"
- Section 1.3, "Terms and Concepts,"
- Section 1.4, "Detailed Information,"
- Section 1.5, "Menu Overview."

1.1 System Integration

Computer Aided Software Engineering (CASE) covers the entire application development life cycle, including:

- Design tools
- Code generation
- Automatic documentation generation
- Prototyping
- Repositories
- Other productivity improvement tools

You use these tools to develop, operate, and maintain flexible, business application software.

Application Development Cycle

There are three technical levels in the JD Edwards World Application Development Cycle (A/D Cycle):

Level	A/D Cycle		
Level 1	The Application Platform, which represents the Technical Foundation Guide.		
Level 2	The Design Platform, which represents the Advanced Programming Concepts and Skills (APCS) Guide.		

Level	A/D Cycle
Level 3	The Development Platform, which represents the Program Generator (CASE) Guide.

1.1.1 Specifications

You define a program using various Program Generator specifications. You perform the following:

- Define program purpose and type
- Specify the files
- Create help text
- Define function exits and options
- Add field-specific logic

You can also create processing options and document Automatic Accounting Instructions (AAIs). After you define the specifications, the Program Generator creates the program, adding the correct validation files and servers to complete the program.

1.1.2 Fundamentals

There are basic building blocks for a program. Program types are basic definitions of the programs. Using the Question and Answer facility, the system determines, based upon your answers, which program type to select. The program generator builds the program using primary and detail logic modules. You can add AAIs to your programs and create Control Language (CL) programs to launch programs from menu options.

1.1.3 History of the Program Generator

- Development started in 1984
- First called Clone
- First program generation was in April, 1985
- Rewrite of all systems (World Systems) done through Clone I & II
- Became known as the KBG (Knowledge Based Generator) in 1991
- Became known as the Program Generator in 1992

1.1.4 Evolution of the Program Generator

Clone II Programs

- Dynamic Data Dictionary
- Dynamic totaling and page skipping created 39 lines of code per field which caused large S002 subroutines

Clone II.5 Programs

- Started in 1989
- Dynamic totaling and page skipping creates 80 lines of code for ALL fields
- No more "?" code generated
- Cursor Sensitive Help (F1)

- F24 Window
- Code for subfile option processing generated

Current Program Generator Programs

- More utilization of file servers
- Use of the Program Design Language (PDL) allow you to make modifications instead of making changes through Source Entry Utility

1.2 Features

JD Edwards World provides several tools to help create and customize your programs.

- PDL is available to add field-specific logic to your programs.
- Quick Start asks a few basic questions, and then creates a basic Report Program Generator (RPG) or CL program.
- JD Edwards World provides many different utilities to assist you in creating and maintaining your code.
- PDL enables you to add calculations or comparisons to specific fields within the program.
- Precompiler commands are available to specialize your compile environment CASE includes the following features:
- Foundation
- **Program Generator**
- Program Design Language
- Source Modifications
- **CASE Programs**
- **Additional Tools**
- Source Inventory and Database

Note: You cannot use the Program Generator to modify existing JD Edwards World programs.

1.2.1 What are the Benefits of CASE?

Every program you create using the Program Generator automatically includes and uses JD Edwards World functionality, such as:

- Data Dictionary
- User defined codes
- Vocabulary overrides
- Action code security
- Business unit security
- Standard function exits
- Function exit and option exit security

- Cursor sensitive help
- Program help
- **DREAM Writer**
- Processing options

This functionality is consistent across all applications you generate because it is built into the Program Generator and Master Source.

The Program Generator is the same tool that JD Edwards World uses to generate the JD Edwards World application programs.

You can create simple programs in a short period of time using the Program Generator. Due to the standard structure and subroutines of the programs you generate, it is easier to incorporate complexities in either the Program Specifications or the source code.

You generate the source RPG code from Program Specifications, Program Types, and Master Source Code; therefore, you can regenerate the source as JD Edwards World enhances the functionality of its software. Because the enhanced functionality is in the Master Source Code File, you need to regenerate only the source code using the original Program Specifications.

Note: The JD Edwards Program Generator output is in RPGIII code. When you complete the program development cycle, you can use RPGIII to RPGIV converters from IBM and third party vendors. As of A7.3.14, A8.1.5 and A9.1, you can use the Software Versions Repository to manage RPGIV programs with the Function Code set to RPGL.

1.3 Terms and Concepts

1.3.1 CASE, as an industry term

As an industry term, CASE is an acronym for Computer-Aided Software Engineering. Many suppliers offer tools that implement various aspects of software engineering. These tools are either upper CASE or lower CASE tools.

Upper CASE tools focus on the business process and data models. Products that provide upper CASE capabilities include tools for organizational charts, decomposition diagrams, entity relationship diagrams, and data flow diagrams.

Lower CASE tools, on the other hand, focus on data models and generating source code. An example of a lower CASE product is J.D. Edward World CASE.

1.3.2 CASE, as a JD Edwards World term

As a JD Edwards World term, CASE refers to a set of tools that you use in the software development process. Following are the components of the CASE tools.

1.4 Detailed Information

1.4.1 CASE Profile

See CASE Profiles JD Edwards World Advanced Programming Concepts and Skills Guide for information on setting up the CASE profile. There are several methods to access the CASE profile:

- Choose CASE profile from the Computer Aided Design menu (G92)
- Choose Software Versions Repository from the Computer Aided Design menu (G92), and then choose Repository Services (F6) to access the Repository Services window.

You enter the CASE program source generation file and compiler options on this screen.

1.4.2 Computer Assisted Design (CAD)

CAD includes the following:

- Data Dictionary
- **User Defined Codes**
- File Design Aid (FDA)
- Screen Design Aid (SDA)
- Report Design Aid (RDA)

1.4.3 Computer Assisted Programming (CAP)

CAP includes the following:

- **Program Generator**
 - Program Purpose and Type
 - File Specifications
 - General Instructions (Help)
 - Option and Function Key Exits
 - **Detailed Programming Facility**
 - **Processing Options**
- **CL** Generator
 - Model CL programs (J98MODEL1 through J98MODEL8)
 - Quick Start CL Generator
- **Quick Start Application Tool**

1.4.4 About The Program Generator

The Program Generator is the JD Edwards World tool that generates source code for both RPG programs and CL programs. In many respects the Program Generator is a very simple tool that combines three functions and produces the source code as a result of combining the functions. The three functions are:

- **Program Types**
- Master Source Code
- **Program Specifications**

1.4.5 About Program Types

The Program Generator builds software depending on the program type you choose. The program types combine the features of:

- Interactive, for example, screen
- Batch, for example report or conversion
- Single record or multi-record

These program types contain a list of individual definitions which you combine to form a functional program. JD Edwards World refers to individual definitions as primary logic modules and the system uses them to build the source code for the program type. The system stores each primary logic module in the Master Source Code File. These logic modules are the components of all JD Edwards World program types.

1.4.6 About Master Source Code

The Master Source Code File consists of over 11,000 lines of RPG source code. Some lines are pure RPG source code. Others contain some RPG code and some JD Edwards World directives, which the Program Generator interprets and replaces with RPG code. The interpretation of the directives is based on the Program Specifications that you establish for generating a specific program type.

1.4.7 About Program Specifications

To generate a program, you must first complete the Program Generator Specifications. These specifications are the details of your program that the Program Generator uses to complete the RPG code it builds from the master source directives. There are six specifications. You must determine:

- A program type
- The files the program uses

After you specify this information, you can generate complete source code that you can then compile and execute.

1.4.8 Program Types

There are five categories of program types:

Interactive

- Can be either update or inquiry
- Can contain Action Codes
- Can contain a subfile
- Can interface with DREAM Writer to provide run-time options

Window

- Normally includes cursor sensitive helps (F1)
- Fits inside current interactive program

Report

Provides for accumulated values (totals)

- Interfaces with DREAM Writer
- Can contain sub-headings

Server

- Name includes a prefix of X
- Updates master files
- Can contain a report

Conversion

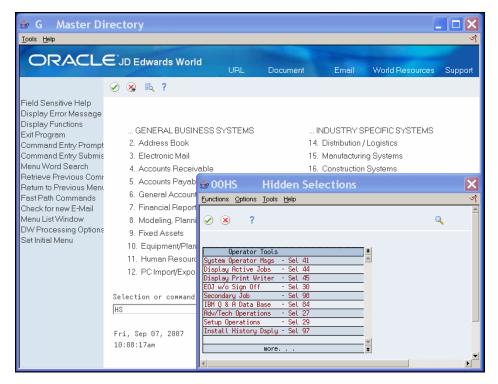
- Use this program type to convert data from one file to another
- Can contain a report

JD Edwards World currently provides 25 pre-defined program types with the Program Generator. The CASE Guide includes information to modify existing program types and to create of your own program types.

1.5 Menu Overview

JD Edwards World systems are menu driven. System functions are organized according to their function and frequency of use. The options on these screens illustrate the flow to the functions in this guide.

Figure 1-1 Master Directory screen



G9 Advanced & Technical Operations ORACLE JD Edwards World Email World Resources Support Field Sensitive Help Display Error Message Display Functions ... ADVANCED ... TECHNICAL Exit Program 2. Computer Assisted Design 14. Run Time Setup Command Entry Prompt Command Entry Submis Computer Assisted Programming 15. Documentation Services Menu Word Search 16. Computer Operations Retrieve Previous Comr 17. Project Management Return to Previous Ment 18. Security Officer Fast Path Commands Check for new E-Mail Menu List Window DW Processing Options Set Initial Menu Selection or command Tue, Feb 23, 2010 AC2901443 JUAL KAAAAS 2:56:16pm

Figure 1-2 Advanced & Technical Operations screen

Figure 1-3 Computer Assisted Programming (CAP) screen



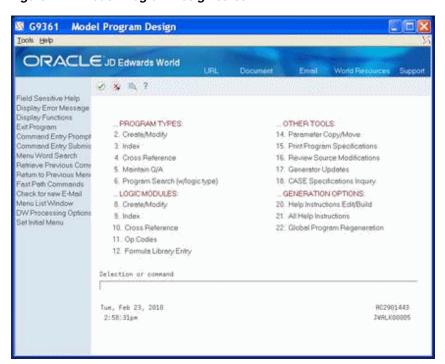


Figure 1-4 Model Program Design screen

Part I

Foundation

This part contains these chapters:

- Chapter 2, "Foundation,"
- Chapter 3, "Work with Prerequisites JD Edwards World Provides,"
- Chapter 4, "Work with User-Provided Prerequisites."

Foundation

This chapter contains the topic:

Section 2.1, "About Foundation Information."

2.1 About Foundation Information

Before the Program Generator can successfully generate source code, a number of foundation items need to be in place. JD Edwards World provides some of these and you must verify they exist. You must perform additional prerequisites.

JD Edwards World provides the following prerequisites:

- **Program Generator Files**
- Common User Defined Codes
- Source Code for Copy Modules
- Source Code for JD Edwards World Files

You provide the following prerequisites:

- **Development Libraries**
- Multi-member Source File copied from F93002 (8 fields, 142 char record)
- Job Queues
- Project Management
- **CASE Profiles**
- Object Authorities

Work with Prerequisites JD Edwards World **Provides**

This chapter contains the topic:

Section 3.1, "Working with Prerequisites JD Edwards World Provides."

3.1 Working with Prerequisites JD Edwards World Provides

The following are prerequisites JD Edwards World provides. You must verify their existence.

- Program Generator Files
- Common User Defined Codes (UDCs)
- Source Code for Copy Modules
- Source Code for JD Edwards World Files

3.1.1 Program Generator Files

The Program Generator files follow. Each has a specific function when the system generates a program. Some of these files include data; while others have no data. You need to verify that the files exist in your CASE environment and that they appropriately contain data or not.

Program Generator

The following two files are database files and include data.

- Program Types (F93000)
- Master Source (F93001)

Source Modifications/Helps

The Help/Modification Master (F93002) file is a multi-member source file, and includes an empty F93002 member.

Program Generator Specifications

The following files are database files and do not include data.

- Program Purpose and Type (F93101)
- File Specifications (F93102)
- File Formats (F93103)

- Selection/Function Exits (F93104)
- Detail Field Definitions (F93105)
- Automatic Accounting Instructions (F93106)

The DREAM Writer Master Parameter (F98301) file is a database file and includes processing options.

Program Design Language (PDL)

The following are database files. The Generation Operation Codes (F93108) file includes data; the other two files do not include data.

- Generation Operation Codes (F93108)
- Data Item Formulas (F93109)
- Calculation Parameters (F93110)

Q&A Dialogue

The following files are database files and include data.

- Dialogue Master (F00501)
- Dialogue Detail (F00502)
- Dialogue Questions (F00510)
- Dialogue Responses (F00511)
- Dialogue Text (F00512)

3.1.2 Common UDCs

The Program Generator uses the following four UDCs:

Logic Modules, 93/LM. Identifies the pieces of code within the Master Source Inventory file (F93001) that the system uses to create your RPG program.

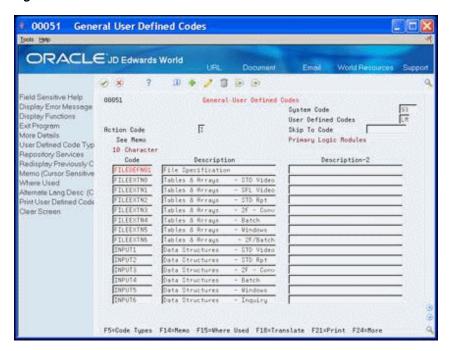


Figure 3-1 General User Defined Codes screen

Common Subroutine Copy Members, 93//C. Lists all of the copy modules on the system. Description-2 field contains any additional copy modules that are necessary to make the common subroutine function properly. For example, C0012 requires copy module E0012.

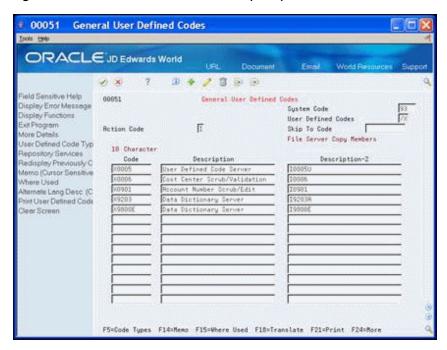
6 00051 **General User Defined Codes** Tools Help ORACLE JD Edwards World Email World Resources Support ① + / Î 🕒 🗈 ✓ X Field Sensitive Help 00051 General User Defined Codes Display Error Message Sustem Code 93 Display Functions 7c User Defined Codes Exit Program I Action Code Skip To Code More Details Common Subroutine Copy Members User Defined Code Typ 10 Character Repository Services Code C00RSC Description Description-2 Redisplay Previously C Soft Coding Server - Reports C,I Memo (Cursor Sensitive C00SC Soft Coding Server - Videos C,I Where Used C0000 Cost Center Security Check Alternate Lang Desc (C Edit Action Code C0001 D,E,C Print User Defined Code C0001A Edit Action Code - Req Inquiry D,E,C Clear Screen Next Numbering - Automatic C0010 E,I,C Center Descriptive Titles C0011 C0012 Riaht Justifu Numeric Fields E,C C0012N Right Justify Numeric Fields -C0015 Currency - Translate Video Fie C00151 Currency - Translate Video Fie C0016 Format Numeric Fields for Outp C00161 Format Numeric Fields for Outp Old full RPG version of C00161 C001610LD F5=Code Types F14=Memo F15=Where Used F18=Translate F21=Print F24=More

Figure 3-2 General User Defined Codes (93//C) screen

Alphanumeric Code	Type of Copy Module
D	Copy the member into the F specifications
E	Copy the member into the E specifications
I	Copy the member into the I specifications
С	Copy the member into the C specifications

Servers, 93//X. This is a partial list of server programs and the associated copy member for each.

Figure 3–3 General User Defined Codes (93//X) screen



Program Types, 93/PT. These are all the program types within the CASE tool.

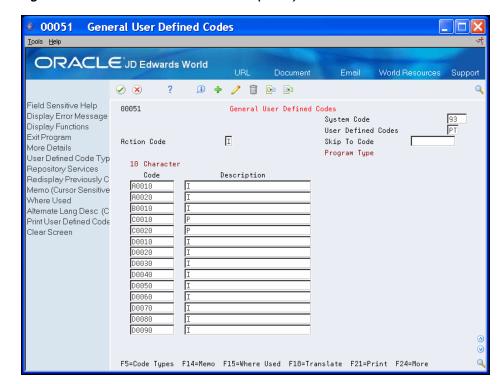


Figure 3-4 General User Defined Codes (93/PT) screen

3.1.3 Source Code for Copy Modules

The program generator requires that the source code for the Common Subroutine Copy Members be in the CASE environment. Copy modules are in file JDECPY in library JDFSRC.

3.1.4 Source Code for JD Edwards World Files

Source code for JD Edwards World database files must also be in the CASE environment. File source is in file JDESRC in library JDFSRC.

Working with	Prerequisites J	D Edwards	World	Provides
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Work with User-Provided Prerequisites

This chapter contains these topics:

- Section 4.1, "Development Libraries,"
- Section 4.2, "Multi-member Source File (JDESRC),"
- Section 4.3, "Job Queues,"
- Section 4.4, "Project Management,"
- Section 4.5, "CASE Profiles,"
- Section 4.6, "Object Authorities."

There are several prerequisites that the user must provide. These prerequisites include the program developer being signed on to a JD Edwards World environment including QGPL in the library list and additional prerequisites.

4.1 Development Libraries

You must provide three types of libraries for CASE:

- Source, which contains the Development Source File.
- Object, which contains the CASE generated programs and device files, as well as your non-CASE developed programs and device files.
- Data, which contains any CASE generated database files.

While it might be customary to create three different libraries for these purposes, this task is optional. Either of the following scenarios is acceptable.

Unique Libraries	Common Libraries
Source = DEVSRC	Source = DEVLIB
Object = DEVOBJ	Object = DEVLIB
Data = DEVDTA	Data = DEVLIB

4.2 Multi-member Source File (JDESRC)

To use the Program Generator to develop application software, the program source file record must:

- Be 142 bytes long to allow for the Program Generator serial number.
- Contain eight specific fields. For example, DSPFFD F93002.

To create the multi-member source file JDESRC

Enter the following on the Command Line:

CPYF FROMFILE(F93002) TOFILE(LIBRARY/XXXXXX) MBROPT(*NONE) CRTFILE(*YES)

You use the F93002 file because it is in the correct format to generate the program.

The To file can be any name and you can use JDESRC. However, JD Edwards World pristine source resides in JDESRC, so you can only use the JDESRC name if it is in a different library than the pristine JD Edwards World source library (JDFSRC).

Do not use CRTSRCPF as it has only three fields in it, Date, Time, and Data, and the Program Generator requires extra fields.



Figure 4-1 Copy File (CPYF) screen

After you create the JDESRC file, you can remove the empty member that the system adds.

Enter the following on the Command Line:

RMVM FILE(LIBRARY/JDESRC) MBR(F93002)



Figure 4-2 Remove Member (RMVM) screen

After you create the JDESRC file, you can remove the empty member that the system adds.

If the system incorrectly creates your JDESRC file, you receive the CPD3105 error message for incorrect source file format, due to either:

- The wrong length
- Improper formatting

4.3 Job Queues

By default, the system submits jobs to generate the program to the CLONE job queue, and the jobs to compile the program to the COMPILE job queue. If you want to use these default job queues, then you must create them and attach them to an existing subsystem.

If you want to use different job queues, or existing job queues, then you must override the defaults, either in the CASE Profile for *PUBLIC or the CASE Profile for specific

4.4 Project Management

You must determine the following regarding Project Management:

Whether to manage CASE generated programs (or any development work) using the JD Edwards World Software Action Request System (SAR). JD Edwards World includes the SAR system as part of System 00, General Back Office, under the name of Work Order Processing.

- See About SAR System Setup in the JD Edwards World Advanced Programming Concepts and Skills Guide for more information about the JD Edwards World SAR System.
- If you are going to use the JD Edwards World SAR System, you create a SAR before starting development or use the number of an existing SAR for development.
- If you are not going to use the JD Edwards World SAR system, you can disable the function that allows the system to validate the SAR number by entering *NONE in the SAR Number field on the CASE Profiles screen.
- 2. If you use the JD Edwards World SAR System to manage software development, then you must determine whether to use SAR logging.

SAR Logging is a process that allows you to associate a SAR number with all of the components of the software development project. These include the Data Dictionary, UDCs, Files, Programs, Vocabulary Overrides, DREAM Writer, and Menus. SAR Logging allows you to identify what components you must move from your development environment to a testing environment and a production environment.

If you use SAR Logging, you must determine what method you use to link a SAR number with each piece of the development work. There are two ways to associate a SAR number with development:

- Use a default SAR number, which you use with all development work until you change the default number.
- Enter the SAR number as you perform the development work.

The results of your decisions reside in your *PUBLIC CASE Profiles.

4.5 CASE Profiles

CASE profiles are user-defined values that can pertain to individual users or to one default *PUBLIC user profile. The system:

- Stores information in the CASE Profiles file (F98009).
- Uses the profiles to define the overall CASE operating environment.

You define various processing control parameters, including:

- Default development libraries
- Compile job queue
- Program Generator source generation job queue
- Compile print options
- SAR logging options

The system overrides the *PUBLIC default values with the individual CASE profile values.

- You must complete all fields when entering information for *PUBLIC.
- You maintain default CASE Profile values in a record with the User ID *PUBLIC. Enter CASE Profile values for individual users only if you want to override the *PUBLIC values.
- You can leave all fields blank except for the specific values you want to override when entering values for individual users.

- The system uses the values in the record for User ID *PUBLIC as the defaults for all users unless individual user profiles have been set up.
- You cannot delete the *PUBLIC record.

The system uses the values in the SAR Number and SAR Delivery fields to determine what type of SAR logging should occur.

Value in the SAR Delivery	
field	SAR Logging
*NONE	No SAR logging at all.
*LOG	The system does not include a SAR number as part of the SAR logging.
*DFT	The system uses the SAR number you specify for the SAR logging.
*PROMPT	The system prompts you for a SAR number and revision notes when it creates an entry to the SAR log.

To access CASE profiles

Navigation

From Computer Assisted Design (G92), choose Case Profiles

Alternatively, on the Software Versions Repository screen, choose Repository Services. On the Repository Services window, choose Case Profiles and then click Enter.

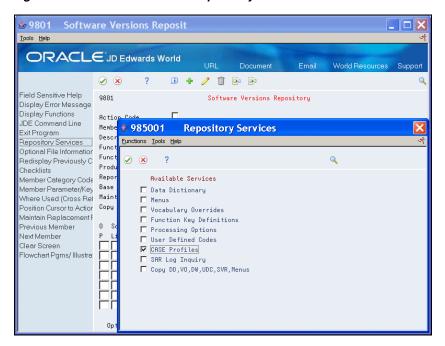
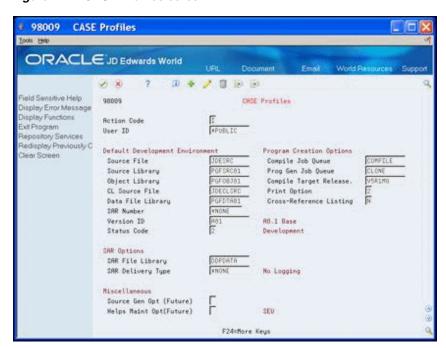


Figure 4–3 Software Versions Repository screen

The program attempts to locate the CASE profile for your User ID. An error message displays on the CASE Profiles screen if your user ID is not set up.

- On Case Profiles, locate the *PUBLIC user ID.
- Enter your Used ID, complete any of the fields and click Change to create your record.

Figure 4-4 CASE Profiles screen



Field	Explanation	
Source File	The Source File Name field contains the name of the file where the source for an object exists. In the program generator File Specifications this name is defaulted to "JDESRC". In combination with the source library name it identifies where the program generator places the generated source code. The system uses this file to find the source for each data file, display file or report file which it must analyze to create the data field parameters. As used in the automated installation processing file this is the source file of an object at the time the object was created.	
Source Library	The default library where source will be stored. The source file specified must reside within this library.	
Object Library	The default library where compiled objects will be stored.	
CL Source File	The default library where source for CL programs will be stored. This file must reside within the specified source library.	
Data File Library	The default data file library specifies the test (or development) library for physical and logical files. This library is used as the default object library for the Software Versions Repository when copying source code for physical or logical files.	
SAR Number	An abbreviation for software action request (SAR).	
	 *NONE = the SAR number will not be validated in any of the CAD/CAP programs and can be left blank. 	
	 If a SAR number is entered, it is used in conjunction with the SAR Delivery Type of *DFT (default). 	
	 If the SAR Number is left blank, you must enter a valid SAR number when using the CAD/CAP tools. 	
Version ID	The software version number to be defaulted in the Software Versions Repository file.	

Field	Explanation	
Status Code	This code determines the status of the software as well as where it resides in production. It will specify that the software is in production, in development, or in release.	
Compile Job Queue	Specifies which job queue will be used when submitting programs to compile. This job queue is used for programs with function code of RPG, CBL, PLI, C and SYSC.	
Prog Gen Job Queue	Specifies which job queue will be used when submitting jobs to the Program Generator. These jobs include the source code generation and the source code monitor from SEU.	
Compile Target Release	Used by various System CRT commands (RPG, CLP, COBOL, C) to compile an object compatible with a specified target release.	
	 A value of *CURRENT compiles an object compatible to the release of the machine at compile time. 	
	 A value of *PRV compiles an object compatible with both one release back and the current release. 	
Print Option	Used to designate whether or not a report will be generated when an object is compiled.	
	■ 0 = no print	
	■ 1 = print	
	■ 2 = print and hold spool file	
	 3 = print only, does not generate execution object (applies to COBOL and RPG only) 	
	■ 4 = print when compile or creation fails	
Cross-Reference Listing	Enter Y or N. Specifies whether a cross-reference listing will be generated for variables and fields in a program's compile listing.	
SAR File Library	Specifies which library the Software Action Request (SAR) file (F4801) being used for software development exists in. If left blank, the user's library list will be used. You may specify *NONE in the SAR number field (MSAR) if you do not want any SAR number editing.	
SAR Delivery Type	Associated with SAR logging, which tracks all modifications to JD Edwards World' software. For example, it will track when User Defined Codes are modified.	
	*NONE = no logging.	
	 *LOG = log to SAR number 00000000 (no SAR number is used for logging). 	
	 *DFT = log to a default SAR number (specified in the SAR Number field). 	
	*PROMPT = log and prompt the user for the SAR number to be used and allow the user to enter the revision notes.	
Source Gen Opt (Future)	Specifies whether to generate source interactively or in batch for programs with this option (for example, Fast Path Application Tool).	
	Allowed values are as follows:	
	1. generate source on-line (interactively)	
	2. generate source in batch	
Helps Maint Opt(Future)	Enter a user defined code, 92/HL.	

4.5.1 Function Exits

Choose Redisplay Previously Changed Member (F9) to locate the last record to which you made changes.

4.6 Object Authorities

The system checks the user's authorities to some objects at different steps in generating programs using CASE. Therefore, it is necessary that you review these authorities initially.

4.6.1 Job Control Authority

On the user's IBM User Profile, you must set the Special Authority parameter to *JOBCTL. This authority is necessary when entering the CASE Specifications.

4.6.2 Source Library

Ensure that the user has Object Management authority to the Source Library for software development.

4.6.3 Source File

Ensure that the user has Object Management authority to the Source File for software development.

4.6.4 Job Queues

Ensure that the user has authorization to use the job queues for generating source code and compiling programs.

Part II

Program Generator

This part contains these chapters:

- Chapter 5, "Overview to Program Generator,"
- Chapter 6, "Access Program Generator Specifications,"
- Chapter 7, "Define Program Purpose and Type,"
- Chapter 8, "Work with File Specifications,"
- Chapter 9, "Define General Instructions,"
- Chapter 10, "Define Option and Function Exits,"
- Chapter 11, "Work with the Detailed Programming Facility,"
- Chapter 12, "Define Processing Options."

Overview to Program Generator

This chapter contains the topic:

Section 5.1, "About Program Generator Steps."

5.1 About Program Generator Steps

You perform the following tasks to create a program using the Program Generator:

- **Define Program Generator Specifications**
- Define Program Purpose and Type
- Work with File Specifications
- **Define General Instructions**
- Define Option and Function Key Exits
- Work with the Detailed Programming Facility
- **Define Processing Options**

Access Program Generator Specifications

This chapter contains these topics:

- Section 6.1, "Accessing Program Generator Specifications,"
- Section 6.2, "Function Exits."

6.1 Accessing Program Generator Specifications

You use the specification screens in the Program Generator to create a program.

- You must enter two specifications:
 - Program Purpose and Type
 - File Specifications

The system allows a third specification, Detailed Programming Facility, which it creates after you enter the File Specifications.

- Optional specifications include:
 - General Instructions
 - **Option and Function Exits**
 - **Processing Options**
 - **Automatic Accounting Instructions**

The system only requires source for files and common copy modules during the specifications and generation steps. The system does not require objects you define externally until you compile the program.

This section contains the following tasks:

- To access the Program Generator
- To access Program Generator Options

To access the Program Generator

The Software Versions Repository screen serves as the portal screen to all JD Edwards World Design tools including the Program Generator.

Navigation

From Computer Assisted Design (G92), choose Software Versions Repository

Locate a member from the Software Versions Repository. For example, locate P92801.

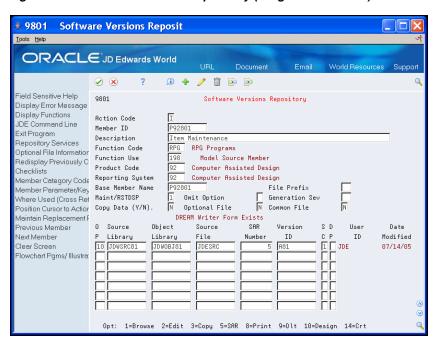
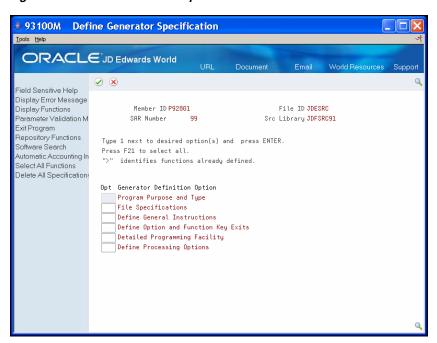


Figure 6-1 Software Versions Repository (Program Generator) screen

- Enter 10 (Design) next to the environment in the following field:
 - Option

The Program Generator Specification screen displays.

Figure 6–2 Define Generator Specification screen

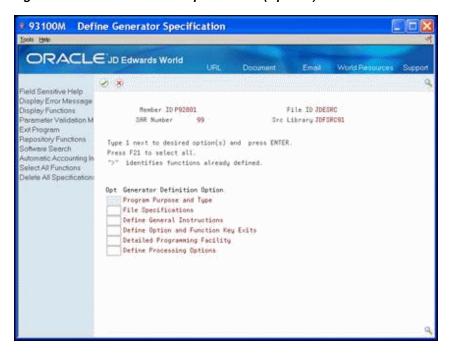


To access Program Generator Options

Enter 1 in the following field for the appropriate option on the Define Generator Specifications screen.

Option

Figure 6–3 Define Generator Specification (Options) screen



Specification	Explanation	
Program Purpose and Type	Defines what kind of program you are designing and the status of the program generation (CAP status).	
File Specifications	Allows the user to enter the data base files to be used by the program you are designing.	
Define General Instructions	Allows the user to enter program-specific help instructions.	
Define Option and Function Key Exits	Allows the user to define special program exits.	
Detailed Programming Facility	Allows the user to specify data field definition parameters for fields included in the screen, the report, and the master files.	
Define Processing Options	Allows the user to define processing options the program can use.	

6.2 Function Exits

Parameter Validation Monitor (F2)

Choose Parameter Validation Monitor after you enter all of the Program Generator specifications to determine if the monitor program can detect any pre-defined errors.

- This program verifies important features that are pertinent to generating source code by the Program Generator
- This program does not verify whether you regenerate the file specifications after you change your video file

The monitor program verifies that you:

- Specify \$\$ fields in the TOTAL formats of the report file for the a generated report program if the report includes a total column
- Define the SH#RRN field for interactive subfile programs processing by relative record number
- Define the Fie Information Data Structure for interactive programs processing by relative record number
- Choose a keyed master file for programs processing by relative record number
- Define a field as mandatory entry N for transaction processor programs (subfiles)
- Define a hidden field for interactive transaction processor programs
- Define the master file key fields as output
- Attach a validation file to fields that are set up to use next numbers

Repository Functions (F6)

Choose Repository Functions (F6) to access a window of JD Edwards World repositories. This is the same window you access from the Software Versions Repository and CASE Profiles screens.

Software Search (F9)

Choose Software Search (F9) to access the Software Search facility. On the Software Search facility, enter a program name (generic*) to view all program names that meet or are greater than the search criteria.

Automatic Accounting Instructions (F13)

Choose Automatic Accounting Instructions (F13) to access the Automatic Accounting Instructions screen. Use this screen for reference only as you cannot generate code from this screen. Data you enter on this screen appears in the AAP portion of the Help instructions you generate.

Select All Functions (F21)

Choose Select All Functions (F21) to access all of the Program Generator definition screens.

Delete All Specifications (F23)

Choose Delete All Specifications (F23) to delete all of the Program Generator specifications for the program. This removes the Pxxxxx and Hxxxxx members from the F93002 file.

Define Program Purpose and Type

This chapter contains these topics:

- Section 7.1, "Defining Program Purpose and Type,"
- Section 7.2, "Function Exits."

7.1 Defining Program Purpose and Type

Defining the program purpose and the program type is the first step in creating a program using the CASE Program Generator. Program types specify the basic function of the program. There are program types for:

- Interactive maintenance programs
- Programs with subfiles
- Report programs
- Conversion programs

The system:

- Stores information in the General Purpose/Type Parameters file (F93101)
- Creates the Pxxxxx member in the Additional Help/Modifications Master file (F93002)
- Creates a data item in the Data Item Master file (F9200)

The Program Purpose and Type screen includes:

- Software Action Request (SAR) number for the program
- Install system value
- Additional information from the Software Version Repository

The Dialogue Selection screen is a series of questions you use to determine the Program Type.

To define program purpose and type

- On Define Generator Specification, enter 1 in the following field next to Program Purpose and Type.
 - Option



Figure 7–1 Define Generator Specification (Purpose and Type) screen

- On Program Purpose and Type, complete the following fields.
 - Program ID
 - Title
 - Purpose
 - **Product Code**
 - SAR Number
 - **CAP Status**
 - Program Type
 - **Lockout Action Codes**

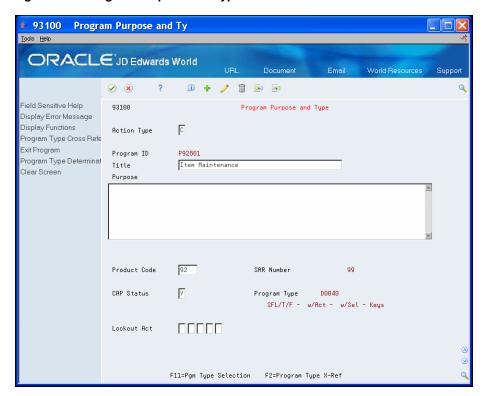


Figure 7–2 Program Purpose and Type screen

Field	Explanation	
Program ID	RPG program name specified in the Software Versions Repository. The system adds a data item by this name, with a glossary group of P to the data dictionary as part of this program definition.	
Title	The title defaults to the description in the Software Versions Repository and should not be changed.	
	When help instructions are generated, this title appears as the Help program title.	
	Serves as the alpha description for the data item previously mentioned.	
Purpose	The full glossary of terms (Data Dictionary) definition. When entering the definition, be aware that the text is wrapped around to fit within 65 characters when being printed for Help Instructions. Therefore, if you are indenting certain parts of the definition, keep the entire line to within 65 characters to retain your desired indentation.	
Product Code	Defaults to the system specified in the Software Versions Repository.	
SAR Number	Defaults to the SAR entered in the Software Versions Repository.	

Field	Explanation	
CAP Status	This field indicates whether the source code for a program can be generated using the program generator. The default for this field is "Y" (Yes, can be generated). The generation program will only generate source code for programs having a code of "Y". This should be set to "N" (No, cannot be generated) if the Program Generator should not be used to generate the program source or if the source generation process is complete and the program has moved into production.	
	Screen-specific information	
	This field also indicates whether the source code for a program can be modified using the program generator.	
	The five additional serial number fields are still included in the source file (142 characters).	
	When the source generation process is complete and the program has moved into a production source file (92 characters)	
Program Type	The Program Type is a name used to identify the basic functions of a program. Each program type is made up of several logic modules. Each logic module contains small sections of RPG code. The program type determines which particular logic modules go together to create the desired program.	
Lockout Act (action)	Allows the user to specify which action codes they do not want included in the program.	
	Any codes listed will not be allowed. That is, the program will not allow the indicator associated with the action code being locked out to ever be turned on. The source to process the Action Code will still be included but the associated indicator will never be allowed to be turned on.	
	Utilizes array @NAC in the programs.	

To identify program type

- **1.** On Program Purpose and Type, choose Program Type Determination (F11).
- **2.** On Dialogue Selection, answer the questions.

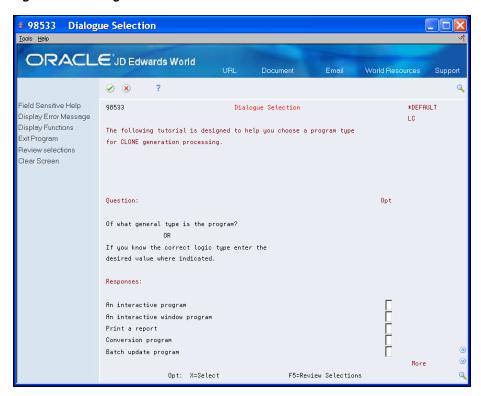


Figure 7–3 Dialogue Selection screen

The following graphics illustrate the flow you use in selecting the proper program type.

Figure 7–4 Selecting the Proper Program Type

What is the general type of program?		
Interactive	A	
Interactive form	E0010	
Print a report	В	
Conversion program	С	
Batch update program	D	

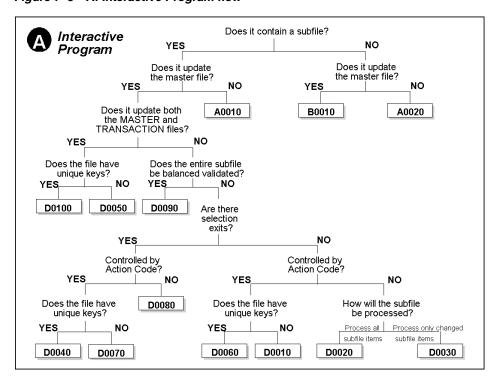


Figure 7–5 A: Interactive Program flow

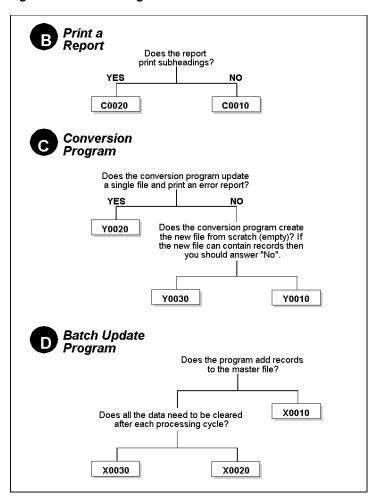


Figure 7-6 Three Program flow

7.2 Function Exits

Program Type Cross-Reference (F2)

Choose Program Type Cross-Reference (F2) to access Program Type Cross-Reference which allows you to view all the programs with the same program type.

Program Type Determination (F11)

Choose Program Type Determination (F11) to access the first dialogue screen if there is no program type.

When you copy a program with specifications, it is not necessary to complete the question and answer process, which the system uses to determine the program or logic type.

Work with File Specifications

This chapter contains these topics:

- Section 8.1, "What Are File Specifications?"
- Section 8.2, "Function Exits."

The program generator requires that you specify the files for your program. The program generator adds any necessary validation files and servers.

File specifications allow you to enter the database files your program uses. After you select your specific program type, continue by completing the File Specifications screen. The system stores information in F93102 and F93103 and creates the F93105 records.

A significant feature of the Program Generator is its interpretive ability to include secondary editing and referencing files.

This chapter includes the following tasks:

- To enter file specifications
- To generate source code from file specifications

8.1 What Are File Specifications?

A key step in generating source code is that you correctly specify the master files for a program. The database Input/Output operations depend on the files you specify.

PROGRAM TYPE	DESCRIPTION	SPECIFICATION
A0010	SFL (IBM Subfile)	Specify the master file with an M or 1 in the Input field.
A0020	Inquiry	neia.
C0010	Single Record Inquiry	
C0020	Standard Report	
C0025	Standard Report -	
E0010	Subheading	
20010	Standard Report - Subheading above Columns	
	Window	

PROGRAM TYPE	DESCRIPTION	SPECIFICATION
B0010	Single Record	Specify the master file with an M or 1 in the
D0040	Maintenance	Update field
D0045	SFL Maintenance - KEY	
D0060	SFL Maintenance - KEY, No Action Code	
X0010	SFL Maintenance - KEY	
Y0020	Batch Update - 1 File	
Y0030	File Conversion - 1 File	
	File Conversion - 1 File	
D0100	SFL Maintenance - KEY, 2 Update Files	Specify the master file, which the system maintains in the SFL Control format, with a 1 in the Update field. Specify the transaction file, which the system maintains in the SFL format, with a 2 in the Update field.
D0010	SFL Maintenance - RRN	Specify the logical file which the system uses to
D0020	SFL Maintenance - RRN	fill the subfile, with a 1 in the Input field. Also, enter a File Information Data Structure name for
D0030	No Action code	the logical file in the fold area.
D0070	SFL Maintenance - RRN	Specify the physical file that the system updates
D0070	No Action code	with a 2 in the Update field. Also, enter N in the Key field for the physical file in the fold area.
D0080	SFL Maintenance - RRN	
D0090	SFL Maintenance - RRN	
	SFL Maintenance - RRN	
	No Action code	
	SFL Maintenance - RRN	
D0050	SFL Maintenance - RRN,	Specify the master file, which the system
	2 Update Files	maintains in the SFL Control format with a 1 in the Update field.
		Specify the logical file that the system uses to fill the subfile with a 3 in the Input field. Also, enter a File Information Data Structure name for the logical file in the fold area.
		Specify the physical file that the system updates with a 2 in the Update field. Also, enter N in the Key field for the physical file in the fold area.
X0020	Batch Update, 2 Files	Specify the input file with a 1 in the Input field.
X0030	Batch Update, 2 Files	Specify the output file with a 2 in the Update field.
Y0010	File Conversion, 2 Files	

The Program Generator requires that you:

- Specify one master file with an M or a 1. Do not specify one file with an M and another file with a 1.
- Enter the correct function code on the Software Versions Repository for the screen or report. Otherwise, the Program Generator does not generate moves to the screen or report.

You can use non-JD Edwards World files with the Program Generator, but you must enter the file in the Software Versions Repository.

The Program Generator does not require that you enter values in the Input, Output, or Update fields for a screen or report.

After you complete the appropriate fields on the File Specifications screen, a job runs interactively that analyzes the file specifications and creates records for three Program Generator files. As the system processes this job, messages display at the bottom of the screen.

File	Description	
File Specifications F93102	The system updates this file with one record for each file in the File Specification.	
	■ If the master file includes a Business Unit field, then the system adds the Business Unit Security file (F0001) to the File Specifications.	
	■ If the master file is for an interactive program and contains a field that uses a validation file, then the system adds that file to the File Specifications. If you later decide that the file validation is not necessary, you can delete it on the File Specifications screen.	
Data Base Format Parameters F93103	The system updates this file with one record for each format in each file.	
	If the file is a database file, then the F93103 record contains the name of the Key List that the Program Generator uses, and the names of the key fields.	
Detail Program Logic Parameters F93105	The system updates this file with one record for each field in each file. The system uses the records in the Detailed Programming Facility.	
	If the file is a master file or device file, then the system includes all fields.	
	If the file is a database file that you use only for input purposes, then the system includes only the key fields.	

If you make changes to the fields in any of the files you list in the File Specifications, you must run the File Specifications again. If you delete a field from a file, you must manually delete that field from the Detailed Programming Facility. Running the File Specifications again does not remove records from the F93105 file.

To enter file specifications

- 1. On Define Generator Specification, enter 1 in the following field next to File Specifications
 - Option

₱ 93100M Define Generator Specification <u>T</u>ools <u>H</u>elp ORACLE JD Edwards World World Resources Email Field Sensitive Help Display Error Message Member ID P92801 File ID JDESRC Display Functions SAR Number 99 Src Library JDFSRC91 Parameter Validation Mon Exit Program Repository Functions Type 1 next to desired option(s) and press ENTER. Software Search Press F21 to select all. Automatic Accounting Instr ">" identifies functions already defined. Select All Functions Delete All Specifications Opt Generator Definition Option Program Purpose and Type 1 File Specifications
Define General Instructions Define Option and Function Key Exits Detailed Programming Facility Define Processing Options

Figure 8–1 Define Generator Specification (Enter File) screen

- On File Specifications, complete the following field:
 - File
- **3.** Complete the appropriate field:
 - Input
 - Output
 - Update
 - Add



Figure 8–2 File Specifications screen

If you specify Update for a file, the Program Generator examines all fields in that file and includes any other files necessary to edit those fields during an update.

Choose Extended Parameters (F4) to complete the fields in the fold area.



Figure 8–3 File Specifications (Fold) screen

Field	Explanation
File	The member ID of the file used by the program.
Input	A code used to specify that a data file will be used as input only by the program being generated. The value entered in this field designates secondary meanings for the use of the file: "M" or "1" thru "9" = Master input file No. 1 thru No. 9,
	P – Primary input file. The "P" will generate the F specification as input primary
	S – Secondary input file. The "S" designates input secondary.
	X – Input file. Any master file designation or an "X" will generate the RPG file (F) specification as input full procedural.
	When working within a Report program type: Files are not treated as input/primary. The program forces a read of the file for control level processing. You can only define one master file read within a report.
Output	A code of X indicates this data file is used as output only by the program to be generated. The RPG file (F) specification will be generated with a file type of O in position 15.

Field	Explanation
Update	A code in this field designates that a file is to be updated within the program being generated. The value entered in this field designates secondary meanings for the use of the file:
	M or 1 thru 9 - Update master file
	P - Update primary file
	S or X - Update secondary file
	T - Update transaction file
	When defining a subfile transaction processor program type that updates the master file by relative record number, you must designate the keyed file as master file No. 1 and the file updated by relative record number as master file No. 2.
Add	A code of X specifies that a file will have records written to it in the program being generated.
	The data file designated as the master file in all file maintenance programs must be designated as allowing file additions.
	A code of X will generate an A in column 66 of the file (F) specification in RPG.
Src Lib/File	The Library Name field contains the name of a valid AS/400 library name. Defaults from SVR.
	In the Program Generator Data File parameters this library name is the library where the data file's source file resides. For logical files it is necessary that the based on physical file's source exist in the same source file.
Keyed(Y/N)	A code of Y indicates the data file being specified is keyed. A value of N indicates the file access will be by relative record number. The default value is Y.
	 If processing by RRN, the physical file that is being updated must be specified as keyed = N.
File Info DS	Name assigned to an RPG III file information data structure if needed for an associated data file.
	If processing by RRN, the logical file that is used to retrieve database records must have a file information data structure name. In addition, you must define SH#RRN as a hidden field on the SFL format of the video, since the Program Generator uses this field to store the relative record number.
	 Suggested naming conventions are INFDS1, INFDS2, and so forth.
	 Used with a keyed data file that does not have UNIQUE keys.
	If you use the POST operation code from IBM for a file information data structure, you must do it for every file information data structure in the program.
PF Src Lib/File	Library where the source resides for the physical file linked to the logical file.

Field	Explanation
External(Y/N)	The External File field designates to the program generator whether or not you wish the data file being specified to be an externally defined file or an internally defined file. The default is "Yes" if left blank.
	Absolutely no data files specified in normal application software created by JD Edwards World and Company may be internally defined. This parameter is strictly reserved for files designated in multi-file access utility functions that deal with source files or other types of system software.

8.2 Function Exits

Extended Parameters (F4)

Choose Extended Parameters (F4) to display the fold area with the library names of the source files. Default library names are in the Software Versions Repository and your library list.

Data Model (F5)

Choose Data Model (F5) to access the Work with File Relationships screen to build the data model. You must build or rebuild the Cross Reference Index before you can view the data model by choosing Cross-Ref Index from the Rebuilds and Global Updates menu (G9642).

Search (F9)

Choose Search (F9) to access the Software Search facility. On the Software Search facility, you enter a program name to view all programs that meet or are greater than the search criteria.

Notice that the system updates the fields on this screen from your File Specifications.

To generate source code from file specifications

When you generate the source, the system submits a batch job to process your program specifications. The system submits the job to the generation job queue in your CASE Profile. This naming convention for this job is your member ID with a prefix of G.

1. On Software Versions Repository, locate a member.

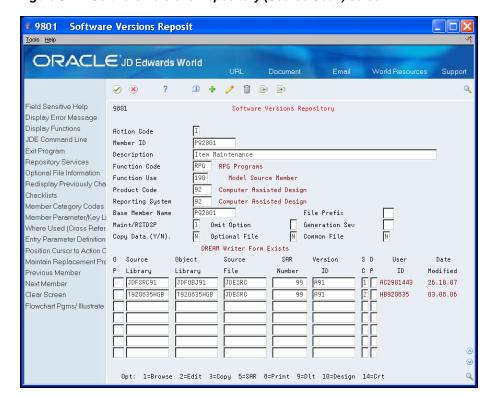


Figure 8-4 Software Versions Repository (Source Code) screen

- 2. Enter 15 in the following field to generate the source and help.
 - Option
- Enter 14 in the following field to compile the program.
- 4. Review the program compile and correct any errors.
- Repeat the steps to generate and compile if necessary.

Define General Instructions

This chapter contains these topics:

- Section 9.1, "About Special Characters,"
- Section 9.2, "Special Characters within Help Instructions."

You use General Instructions to create or change program-specific help text for the program that you are creating. To work with Define General Instructions you should be familiar with:

- Entering and changing text on the Edit screen
- Using special characters
- Updating the help file

The system stores information in the Hxxxxx member of the Additional Help/Modifications Master file (F93002).

9.1 About Special Characters

Following are special characters for general instructions:

Character	Explanation
**	Must be in positions 1 & 2.
	This causes a page skip when you print the text.
++	Must be in positions 1 & 2 which you follow with a data item.
	This causes the system to enter the most current data dictionary information.
>>	Enters all help instruction records for the program after the >> character.
	This character displays only when you print the text.
//BYPASS	Marks the beginning of help information that the system ignores.
	Enter at the beginning of comment lines.
//END	Marks the end of help information that the system ignores.
	Enter at the end of comment lines.
1	Underlines text.
¢	Underlines and highlights the text.

Character	Explanation
~	Highlights the text
	Press Shift + Tilde, and then press the Space Bar.
	Alternatively, press ALT + HEX + A1 if you do not have a Tilde (~) on your keyboard.

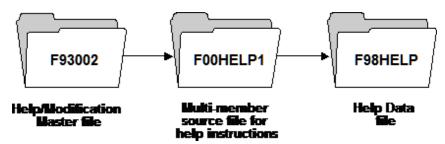
9.2 Special Characters within Help Instructions

You can use the special characters to display fields with specific attributes. You begin and end the text selection as follows.

- To underline General Use, enter | General Use |
- To highlight Additional Features, enter ~Additional Features~
- To underlines and highlight Special Considerations, enter ¢Special Considerations¢

After you define the General Instructions, you must rebuild the help instructions in order to include them in the interactive Help Instructions Master file (F98HELP).

Figure 9–1 Help Instructions Modifications



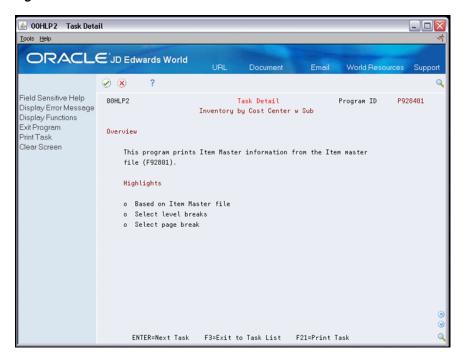
When you choose Help Instruction from the Computer Assisted Design (CAD) menu (G92) to review the F00HELP1 file, notice that the system adds some directional statements to the general instructions you create. The format is as follows:

++ HELP100, ++ HELP200, and so on.

The rebuild automatically generates these statements in order to categorize the help instructions, and to include additional help. For example, it automatically creates field explanations and a list of functions and selections for the program. HELP100, HELP200, and so on, are entries in the Data Dictionary.

The results might display as follows:

Figure 9–2 Task Detail screen



Select General Instructions to view the program-specific help text for the program.

This chapter includes the following tasks:

- To define general instructions
- To update the help instructions

To define general instructions

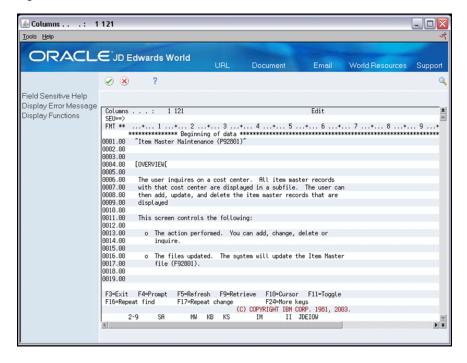
- On Define Generator Specification, enter 1 in the following field next to Define General Instructions:
 - Option



Figure 9–3 Define Generator Specification (General Instructions) screen

On the Edit screen, enter the program-specific help text. You should keep the text between columns 5 and 70 or the text will be truncated.





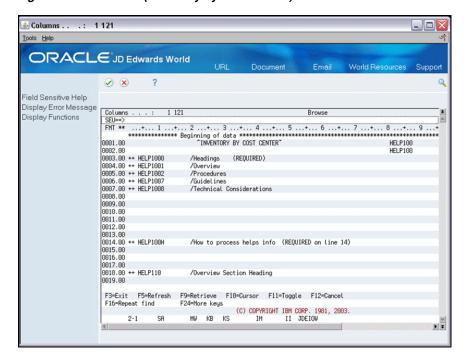
To update the help instructions

There are two methods to update the help instructions.

On Software Versions Repository, enter 15 in the following field to regenerate the program. Alternatively, enter 18 in the following field to rebuild the help instructions:

Option

Figure 9-5 Columns (Inventory by Cost Center) screen



Special Characters within Help Instructio	Special	Characters	within	Help	Instruction
---	---------	------------	--------	------	-------------

Define Option and Function Exits

This chapter contains these topics:

- Section 10.1, "Defining Option and Function Exits,"
- Section 10.2, "Function Exit."

10.1 Defining Option and Function Exits

To add function exits (function key exits) and subfile selection options to your interactive program, use Define Option and Function Key Exits. The program generator automatically adds the standard function exits to your program, such as Prompt for valid field values (F1), Display Error Message (F7), and Exit (F3). You can highlight the function exits you want to display on line 24 of the program screen using Screen Design Aid (SDA) or Vocabulary Overrides. The program generator creates a list of function exits and selection options for the program. This allows the user to choose Display Options (F24) on any screen to display the list of all function exits and use Prompt for valid field values (F1) in the Option field to display the list of options.

The system stores information for CASE in the Program Exit Parameters file (F93104).

The system creates or updates the Function Key Translation Detail (F9611) and Generic Function Key Master (F96012) tables for the specific screen.

Each set of fields on the Option & Function Key Exits screen pertains to the Function Key or Selection Option you are defining. There is a correlation between the values you enter in the Field field and the Key field. The value in the Field field is the internal data name for the program and the system compares this value to the value in the Key field. The system uses the value in the Program ID field for the name of the program or routine the system executes. The Parm fields are the parameters the system needs for the program or routine.

To define Option and Function Exits

- On Define Generator Specification, enter 1 in the following field to define option and function exits:
 - Option

■ 93100M Define Generator Specification Tools Help ORACLE JD Edwards World Field Sensitive Help Display Error Message Display Functions Member ID P92801 File ID JDESRC Parameter Validation M Exit Program Repository Functions SAR Number 99 Src Library JDFSRC91 Type 1 next to desired option(s) and press ENTER. Software Search Press F21 to select all. Automatic Accounting In Select All Functions ">" identifies functions already defined. Delete All Specifications Opt Generator Definition Option Program Purpose and Type File Specifications Define General Instructions 1 Define Option and Function Key Exits Detailed Programming Facility Define Processing Options

Figure 10-1 Define Generator Specification (Option) screen

- On Option & Function Key Exits, complete the following fields:
 - Field
 - Program ID
 - Key
 - Parm (Parameter) 1 through 8
 - Purpose of Exit
 - Returned Key Fld
 - Returned Desc Fld

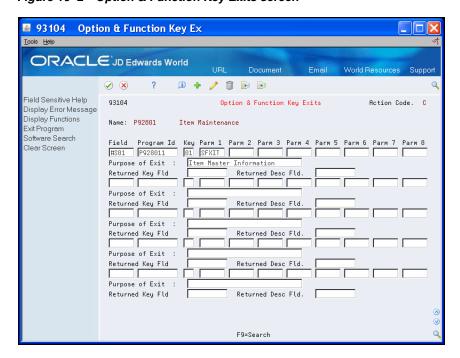


Figure 10-2 Option & Function Key Exits screen

Field	Explanation
Field	The RPG field name (6 bytes) to be passed as a parameter on function key exits or subfile options.
	Screen-specific information
	The internal field name the system assigns to each option and function exit in the program you are generating.
	Correlation exists between this field and the Function exit Definitions repository.
	Maintained in the soft coding server data structure (I00SC).
	 This is a required field
	Use #S01 - #S16 for options
	 Use #F01 - #F15 for function exits
Program Id	The identification, such as program number, table number, and report number, this is assigned to an element of software.
	Screen-specific information
	The name of the program that the system executes when you choose the function exit or enter a selection option value.
	By prefixing the name with an asterisk (*) you may designate the name of a logic module. A logic module's name that you use for this purpose must begin with an X followed by any eight characters. The name cannot be longer than nine characters in order to allow for entry of the asterisk prefix. This function allows the programmer to create logic other than the standard execution of an external program when a user

chooses a function exit or enters a selection option.

Field	Explanation
Key	This field is used to specify the function key or subfile option number for a particular exit in the program being generated. Along with function key or option number, you must enter the program ID and any parameters that should be passed to the external program.
	Screen-specific information
	You can only define function exits for #F01 through #F15 and subfile options for #S01 through #S16.
Parm 1	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 2	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 3	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 4	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 5	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 6	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 7	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Parm 8	The RPG field name (6 bytes) to be passed as a parameter on function exits or subfile options.
Purpose of Exit	A name or remark that describes an element in the JD Edwards World systems.
	Screen-specific information
	Special Use: For the CASE system, this field is used for program exit remarks and AAI remarks. It also allows you to enter a data dictionary key when prefixed with an * (asterisk). This lets you use standard explanations and provide more extensive explanations for each exit or AAI when viewed with the help instructions.
Returned Key Fld	This field is used to specify the name of the data field to be updated by a returned key when exiting to an inquiry program that allows passing the selected record's key back to the initiating program.
	Screen-specific information
	Causes logic generation to let a returned key pass through the local data area and loads the value in the specified key field. Only valid with the CL program J98LDAKY

Field	Explanation	
Returned Desc Fld	This field is used to specify the name of the data field to be updated by a returned description when exiting to an inquiry program that allows passing the selected record's description back to the initiating program.	
	Screen-specific information	
	Causes logic generation to let a returned description pass through the local data area and loads the value to the designated description field.	
	 Only valid with the CL program J98LDAKY 	
	 For more information on using the Returned Key and Returned Desc Fld, see the program level Helps for P93104 	

10.2 Function Exit

Search (F9)

Choose Search (F9) to access the Software Search facility. On Software Search, enter a program name to view all programs that meet or are greater than the search criteria. You can also enter Generic* to view the names of all program in the SVR.

10.2.1 What You Should Know About

Торіс	Description
Values in the Parameter fields	Use caution when using an internal program data name in the Parm fields. Using screen (VD prefix) or subfile (SF prefix) fields might cause issues because the program the system retrieves can change the data in the field.
	To avoid transferring screen or subfile fields values, alternative options for VDxxxx or SFxxxx include:
	Transfer PSxxxx This requires a manual source change to the program in order to properly load the PSxxxx field with the screen or subfile field, or load the field using Program Design Language.
	 Transfer SHxxx You can define the SHxxxx fields as hidden fields on their screen and then load them with the proper information using the Detailed Programming facility.

Work with the Detailed Programming Facility

This chapter includes these topics:

- Section 11.1, "About the Detailed Programming Facility,"
- Section 11.2, "About Full Data Field Parameters,"
- Section 11.3, "Loading VC0 Description Fields,"
- Section 11.4, "Enabling the Database Update Function for Subfiles,"
- Section 11.5, "Creating *ENTRY PLIST Entries,"
- Section 11.6, "Protecting Fields from Being Cleared,"
- Section 11.7, "Disabling Data Dictionary Edits,"
- Section 11.8, "Creating a Partial KLIST for a File."

The Detailed Programming Facility allows you to specify data field definition parameters. The Detailed Programming Facility screen lists the files in order and then each field in order within the files for the shell program the Program Generator creates. It also provides access to Field Detail and Program Design Language. The system creates this specification after you enter the File Specifications. Additionally, the system stores the information in the Detail Program Logic Parameters file (F93105).

11.1 About the Detailed Programming Facility

After you enter the file specifications, you access the Detailed Programming Facility from the Define Generator Specification screen.

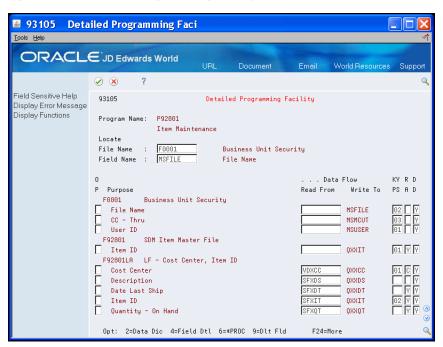
To access the Detailed Programming Facility, you enter 1 in the Option field on the Define Generator Specification screen.

■ 93100M Define Generator Specification Tools <u>H</u>elp ORACLE JD Edwards World Field Sensitive Help Display Error Message Member ID P92801 File ID JDESRC Display Functions Parameter Validation M SAR Number 99 Src Library JDFSRC91 Exit Program Repository Functions Type 1 next to desired option(s) and press ENTER. Software Search Press F21 to select all. Automatic Accounting In ">" identifies functions already defined. Select All Functions Delete All Specifications Opt Generator Definition Option Program Purpose and Type File Specifications Define General Instructions Define Option and Function Key Exits 1 Detailed Programming Facility Define Processing Options

Figure 11–1 Define Generator Specification (Detailed Programming) screen

The Detailed Programming Facility screen displays.

Figure 11-2 Detailed Programming Facility screen



Field	Explanation
File Name	The member ID of the file used by the program.
OP	Allows for selection exits for each field.

Field	Explanation
Data Flow - Read From	Indicates what information is to be loaded into the "Write To" field on the screen. This field is loaded automatically by CAP during the data field generation process initiated by adding files to the file specifications program. It is loaded based upon either a display file or report file data dictionary item name matching with the same data dictionary item name in the specified data base files. If no match occurs for the designated master file fields, this field is loaded with "*SKIP". (An entry of "*" followed by an internal logic module name allows creating standard calculation routines for certain fields.) An entry of *PROC will replace standard code with that generated by PDL.
Key Position	Designates the relative position of the field in the key list. It is used in the program generator to generate key lists (KLIST). You may also define a partial key by blanking out the key position for a particular field. Just remember, partial keys should be defined from the bottom up; for example, don't remove key position 01 if there are 4 keys in the key list.
Right Adjust Parameter	A code of:
	Y – indicates the field should be right adjusted.
	N – indicates the field should NOT be right adjusted.
	C – indicates the field is a business unit and should be left filled with blanks instead of zeros.
	A – indicates the field is an account number and the account number edit routine will be used for editing.
	Can only be used when the Read From field is a video field and the Write To field is a data base field.
Data Dictionary Validation	Designates whether the Program Generator will generate all the editing logic specified in the Data Dictionary for the particular data item. Enter a Y if this editing is desired, otherwise enter an N to bypass the Data Dictionary editing. Y is the default.

11.1.1 Available Options

Value	Description
2 - Data Dictionary	Access the Data Dictionary Repository for the data item.
4 - Select/Work With	Access the Full Data Field Parameters screen for more detail on the field.
6 - Data Formula Entry (*PROC)	Access the Data Item Formula Revisions screen where you enter Program Design Language (PDL) code.
9 - Delete Record	Allows you to delete a field from the Detailed Programming Facility.

11.1.2 Function Exits

Repository Services (F6)

Choose Repository Services (F6) to access a screen of JD Edwards World technical functions or repositories.

Select *PROC Fields On/Off (F10)

Choose Select *PROC Fields On/Off (F10) to toggle between a display of either all fields in the Detailed Programming Facility or the fields with PDL.

11.2 About Full Data Field Parameters

Full Data Field Parameters allows you to create additional source code.

11.2.1 Primary Uses of Full Data Field Parameters

The primary uses of full data field parameters include:

- Loading VC0 description fields: The system can store VC0 (descriptive data) about either a screen (video) or report in another file. Use this screen to enter the file in which you want the system to store the data about the field, the file key, where you want the system to store the description and the field with which you want to associate the field.
- Enabling the database update function for subfiles: Entering N in the Entry Optional field enables the subfile field that controls data base updates
- Creating the *ENTRY PLIST code for a program: Specifies which data fields you want to include in an *ENTRY PLIST statement and the sequence in which they will appear.
- Protecting a field from the system clearing it every time the system executes the S001 routine when you generate the code.
 - You specify N in the Clear After (Y/N) field
 - The system requires this for output only fields that do not have a VC0 prefix
 - The system requires this for key fields in RRN program types
- Adding error message the user creates
- Suppressing edits in S005 for audit fields
- Creating a partial KLIST for an input file

To access the Full Data Field Parameters screen, you enter 4 in the Option field next to the field for which you want to create additional source code on the Detailed Programming Facility screen.

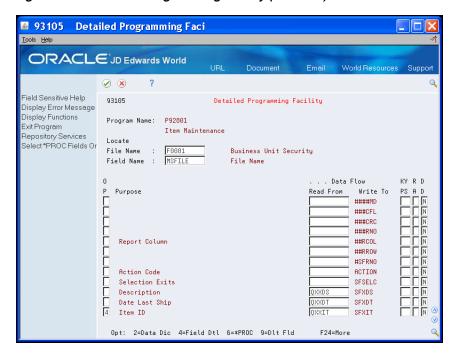
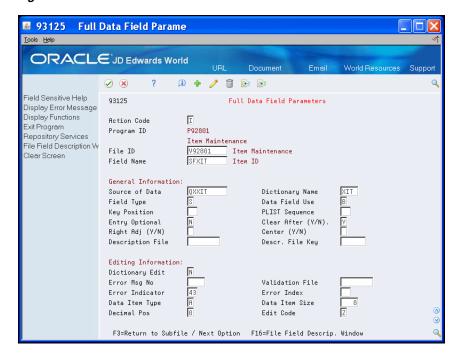


Figure 11-3 Detailed Programming Facility (Full Data) screen

The Full Data Field Parameters screen displays.

Figure 11-4 Full Data Field Parameters screen



Field	Explanation
Source of Data	Indicates what information is to be loaded into the "Write To" field on the screen. This field is loaded automatically by CAP during the data field generation process initiated by adding files to the file specifications program. It is loaded based upon either a display file or report file data dictionary item name matching with the same data dictionary item name in the specified data base files. If no match occurs for the designated master file fields, this field is loaded with "*SKIP". (An entry of "*" followed by an internal logic module name allows creating standard calculation routines for certain fields.) An entry of *PROC will replace standard code with that generated by PDL.
Dictionary Name	The 4 character data item name from the data dictionary. Used extensively for field editing within the program generator.
Field Type	Used to designate master file field names and display/report file field names within the data field parameter records.
	M – indicates a master file field
	P – indicates the field is in the control record portion of a video screen (so if not a subfile, all fields would be a P)
	S – indicates the field is in the subfile portion of a video
	D – indicates a field within a report detail format
	H – indicates a field within a report heading format
	T – indicates a field within a report total format
Data Field Use	To determine how a data item is used on a video screen or report as far as:
	I – input only
	O – output only
	B – both input and output
	H – hidden field
Key Position	Designates the relative position of the field in the key list. It is used in the program generator to generate key lists (KLIST). You may also define a partial key by blanking out the key position for a particular field. Just remember, partial keys should be defined from the bottom up; for example, don't remove key position 01 if there are 4 keys in the key list.
PLIST Sequence	The PLIST Sequence field specifies to the Program Generator which data fields you wish to include as passed parameters on a *ENTRY PLIST statement and the sequence in which they will appear.
	■ 01 - 32 are valid
	■ Must enter as 01 and not 1
	 If the first parameter is passed a non-blank value, an auto-inquiry will be performed
Entry Optional	Used with subfile maintenance programs to identify the field that controls database updates.
	One field needs to be designated as Entry Optional: N
	 Defaults to a blank

Field	Explanation
Clear After (Y/N)	Designates to the Program Generator whether a field is always cleared at the end of each transaction entry or is only cleared when the user presses the specific function key to clear the screen.
	Y – indicates the field will be cleared at the end of each transaction entry. The default is Y.
	N – indicates the field will not be cleared unless specified by the user by pressing the appropriate function key.
Right Adj (Y/N)	A code of:
	Y – indicates the field should be right adjusted.
	N – indicates the field should NOT be right adjusted.
	C – indicates the field is a business unit and should be left filled with blanks instead of zeros.
	A – indicates the field is an account number and the account number edit routine will be used for editing.
	Can only be used when the Read From field is a video field and the Write To field is a data base field.
Center (Y/N)	A code of Y will center the data within the field when it is displayed.
Description File	Used in conjunction with loading a VC0 description field.
•	 Identifies the file that contains the description
Descr. File Key	Specifies the key field name to use for retrieving the data description from the designated description file. Enter the field name used to chain to that file. If you need to use a KLIST, enter the KLIST name.
	If this description is coming from the User Defined Codes file, enter the field that contains the "code" portion of the User Defined Codes key. For example, to retrieve state description using the Address Book file, you would enter ABADDS not DRKY01. The system code and record type will be retrieved from the data dictionary item for state code (ADDS).
	The program generator will produce the code to chain to the appropriate file and move (left justified) the description to the specified output field (usually VC0xxx).
Dictionary Edit	Controls the generation of data dictionary editing for fields in the master file.
	Defaults to Y
	 Specifying N will result in no data dictionary editing for the value that is moved to a master file field
	 Is useful for audit fields such as User ID that can be loaded from the Program Status Data Structure and need no editing.
Error Msg No	Identifies a custom error message to use when errors are detected on a screen field.
	 Loads the value in array EMK of subroutine S999
Validation File	Specifies the file name to use for validating the current data field contents. This file name is automatically provided from the data dictionary if it exists.

Field	Explanation	
Error Indicator	Used to designate the error controlling indicator for a data item on a video screen. This indicator controls the standard error notification attributes for video screens (reverse image, high intensity and position cursor).	
Error Index	The Error Message Index field is the array index where a special error message number is loaded in the error message array. Each of the data item parameters which uses external file validation can override the standard error message (0002). A new index must be entered for these types of changes. Error indexes 1 through 20 are reserved for the program generator. Error indexes 21 through 30 are reserved for file validation. Error indexes 30 through 64 can be used for anything else.	
Data Item Type	This defines the type of data to be stored in the field. The data item types are defined in User Defined Codes, system code '98', record type 'DT'. Note: All amount fields should be entered as 15 bytes, 0 decimals, and data item type should be P (packed).	
Data Item Size	The field size of the data item.	
	NOTE: All amount fields should be entered as 15 bytes, 0 decimals, and the data item type should be P (packed).	
Decimal Pos	The number of positions to the right of the decimal of the data item.	
Edit Code	Determines how data is printed or displayed. Depending on the code, you can change the appearance of the fields as follows (standard IBM edit codes):	
	■ Show commas - 1, 2, A, B, J, K, N, or O	
	 Show decimal point - 1, 2, 3, 4, A, B, C, D, J, K, L, M, N, O, P, Q 	
	 Show sign for negative - A, B, C, D ("CR") or J through Q ("-") 	
	 Suppress leading zeros - 1 through 4, A through D, J through Q, Y and Z 	
	Refer to user defined codes (system 98/ type EC) for all valid codes, including additional JD Edwards World edit codes.	

11.2.2 Function Exits

File Field Description Screen (F16)

Choose File Field Description Screen (F16) to access the File Field Description Screen. This function exit is field sensitive.

- If the cursor is in the Description File Key field, and this field:
 - Contains a file name, the system enters the fields on the screen with the fields from the description file.
 - Is blank, the system displays a blank File Field screen for you to enter a file name and then displays the fields from that description file.
- If the cursor is not in the Description File field, the system displays a blank File Field screen for you to enter a file name and then displays the fields from that description file.

11.3 Loading VC0 Description Fields

The Detailed Programming Facility allows you to specify what file to use to access a description for a screen (video) or report description field whose prefix is VC0 (VC0xxx).

11.3.1 **Example**

In the following example, QXXCC is a field in the Business Unit Master table (F0006) that contains the business unit value. The F0006 table also contains descriptions of the business units. MCDL01 is the field in the F0006 table that contains the business unit description and the system enters this description into VC0001.

93125 Full Data Field Parame Tools Help ORACLE JD Edwards World Field Sensitive Help 93125 Full Data Field Parameters Display Error Message Display Functions Exit Program P92801 Program ID Repository Services Item Maintenance File Field Description W File TD V92801 Item Maintenance Clear Screen Field Name General Information: MCDL01
Dictionary Name
P
Data Field Use
PLIST Sequence
V
Clear After (Y/N)
Center (Y/N)
Descr. File Key Source of Data Field Type Key Position Entry Optional Clear After (Y/N). Right Adj (Y/N) Description File F0006 Editing Information: Dictionary Edit Error Msg No Error Indicator Error Index Data Item Type Data Item Size Decimal Pos Edit Code F3=Return to Subfile / Next Option F16=File Field Descrip. Window

Figure 11–5 Full Data Field Parameters (Example 1) screen

11.3.2 Example: User Defined Code

If you are accessing a description for a user defined code (UDC) field, you enter F0005 (User Defined Codes table) in the Description File and the value for the field for which you are accessing the description in the Description File Key field.

The Program Generator retrieves the Install System Code and User Defined Code Type from the Data Dictionary and builds the composite key to access the User Defined Code file.

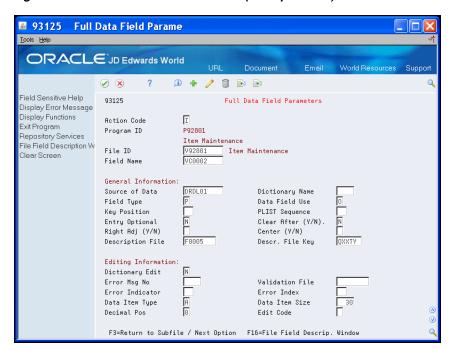


Figure 11–6 Full Data Field Parameters (Example: UDC) screen

In the example above, QXXTY is a UDC field in the User Defined Codes table. F0005 contains descriptions of UDCs. DRDL01 is the field in F0005 that contains the UDC description and the system enters this description into VC0002.

Because a server program accesses the F0005 table, it is not necessary to include it in the File Specifications.

Loading field descriptions using this approach only works if the system enters the field description into a VC0 field.

Specifying a file does not guarantee that the system enters the file you specify into the File Specifications. You must review the File Specifications to ensure the files from which you want to retrieve descriptions are present. The exception is for files that you access with a server program.

To load the VCO Description fields

Complete the following fields:

- Source of Data
- Description File
- Descr. File Key

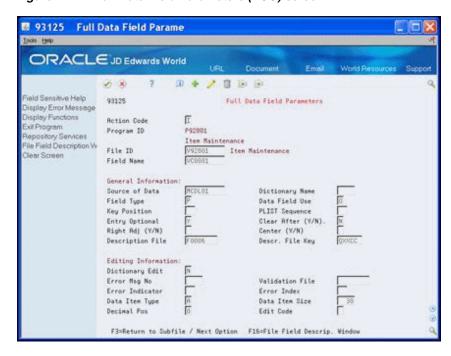


Figure 11-7 Full Data Field Parameters (VCO) screen

Field	Explanation
Source of Data	Indicates what information is to be loaded into the "Write To" field on the screen. This field is loaded automatically by CAP during the data field generation process initiated by adding files to the file specifications program. It is loaded based upon either a display file or report file data dictionary item name matching with the same data dictionary item name in the specified data base files. If no match occurs for the designated master file fields, this field is loaded with "*SKIP". (An entry of "*" followed by an internal logic module name allows creating standard calculation routines for certain fields.) An entry of *PROC will replace standard code with that generated by PDL.
Description File	Used in conjunction with loading a VC0 description field.
	 Identifies the file that contains the description
Descr. File Key	Specifies the key field name to use for retrieving the data description from the designated description file. Enter the field name used to chain to that file. If you need to use a KLIST, enter the KLIST name.
	If this description is coming from the User Defined Codes file, enter the field that contains the "code" portion of the User Defined Codes key. For example, to retrieve state description using the Address Book file, you would enter ABADDS not DRKY01. The system code and record type will be retrieved from the data dictionary item for state code (ADDS).
	The program generator will produce the code to chain to the appropriate file and move (left justified) the description to the specified output field (usually VC0xxx).

11.4 Enabling the Database Update Function for Subfiles

If you are designing a subfile maintenance program, you must define at least one field in your subfile as a required field.

In the following example, the Item ID (SFXIT) field is the field that controls database updates:

The system performs the following:

- If Item ID is blank, but there is a database record for the subfile record, then the system deletes the database record.
- If Item ID is not blank, then the system saves or updates the database depending on whether the database record exists in the subfile.

You must define one or more hidden fields in the subfile record if the program type

- Key processing for the subfile. The hidden field must be SHxxxx, where xxxx is the data dictionary item. There must be a SHxxxx field for each key field that is in the subfile record.
- RRN processing for the subfile. The hidden field must be SH#RRN.

To enable the database update function for subfiles

On the Full Data Field Parameters screen, enter N in the Entry Optional field.

8 93125 Full Data Field Parame Esote Help ORACLE JD Edwards World 93125 Full Data Field Parameters Display Error Message Display Functions I Action Code Exit Program P92881 Program ID Item Maintenance File Field Description W File ID V92881 Item Maintenance SFXIT Item ID Clear Screen Field Name General Information: Source of Data Dictionary Name PLIST Sequence Field Type Data Field Use Key Position Clear After (Y/N). Entry Optional Right Adj (Y/N)
Description File Center (Y/N) Descr. File Key Editing Information: Dictionary Edit Validation File Error Index Error Mag No Error Indicator Data Item Type Decimal Pos Edit Code F3=Return to Subfile / Next Option F16=File Field Descrip. Window

Figure 11-8 Full Data Field Parameters (Update) screen

11.5 Creating *ENTRY PLIST Entries

You use PLIST entries to define which data items to include in a parameter list. You can use a maximum of 32 parameters.

11.5.1 **Example**

The system uses data item VDXCC as the third parameter in the entry list of Subroutine S999. The program generator creates a field name, which is the same data dictionary item with a prefix of ##. The system moves this parameter field to VDXCC from the parameter field.

You must use the data item in the display file, not the database file, for creating PLIST parameters.

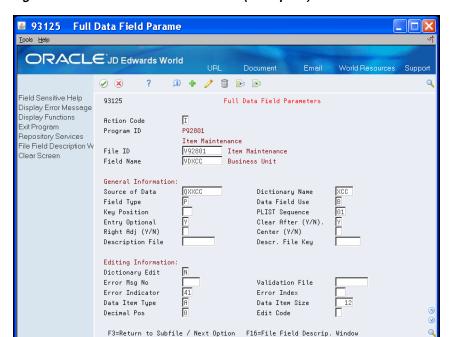


Figure 11–9 Full Data Field Parameters (Example 3) screen

If the parameter value is not blank, the system updates the variable \$AUTO with a 1. When the system launches this program, this parameter informs the program to perform an automatic inquiry (S003).

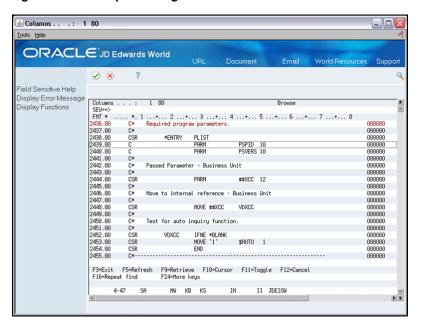


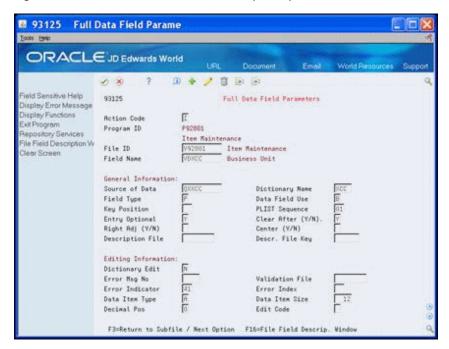
Figure 11-10 Required Program Parameters screen

If the system retrieves this program directly, the CL program retrieving this RPG program must issue a blank parameter.

To create *ENTRY PLIST entries

On the Full Data Field Parameters screen, enter a two-digit number corresponding to the sequence of the parameter in the PLIST Sequence field.

Figure 11–11 Full Data Field Parameters (PLIST) screen



11.6 Protecting Fields from Being Cleared

This feature is useful when creating data entry programs with a repetitive data field. For example, when there are multiple occurrences of the date field on a screen, a user only needs to enter a date in the first occurrence of the date field.

- The system clears all fields except those with a prefix of VC0 each cycle in Subroutine S001.
- The default value for this field is Y.
- The function exit F22 clears all fields.

To protect fields from being cleared

On the Full Data Field Parameters screen, enter N in the Clear After field.

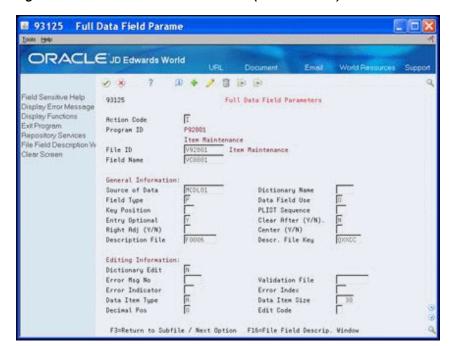


Figure 11–12 Full Data Field Parameters (Protect Fields) screen

11.6.1 What You Should Know About

Topic	Description
User Error Messages	Updating the Error Message Number and Error Index fields adds errors to the EMK array in Subroutine S999.
	For example, in Subroutine S999, the system applies error message 1684 to Error Index 21 of the EMK array. JD Edwards World reserves indexes 1 to 20.
	You must modify your source to use this error message index.

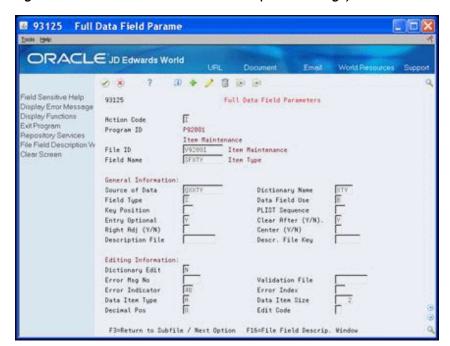


Figure 11-13 Full Data Fields Parameters (Error Message) screen

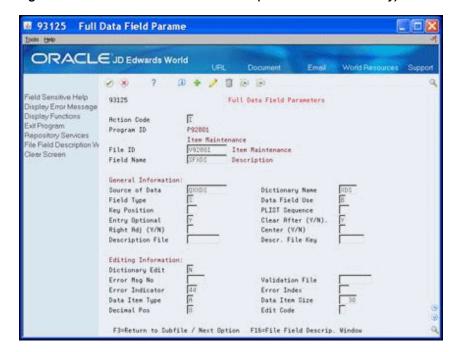
11.7 Disabling Data Dictionary Edits

This feature is useful if you add custom validation through the Source Entry Utility (SEU).

To disable Data Dictionary edits

Enter N in the Dictionary Edit field.

Figure 11–14 Full Data Field Parameters (Disable Data Dictionary) screen



11.8 Creating a Partial KLIST for a File

The Program Generator displays the full key list. You can change the key position to exclude subordinate elements.

11.8.1 Example

In the example that follows, the key list sequence for the Business Unit security file is:

- User ID
- File Name
- Through Business Unit

If you want to use a partial key to access this file, start with the highest number key field and clear the Key Position (KY PS) field. If you need both the full key list and a partial key list, enter this using the SEU.

To create a partial KLIST for a file

On Detailed Programming Facility, clear the Key Position (KY PS) field, starting with the last element.

In the following example, clear the Key Position (KY PS) field for CC - Thru. The key for F0001 is the User ID and File Name, key positions 01 and 02.

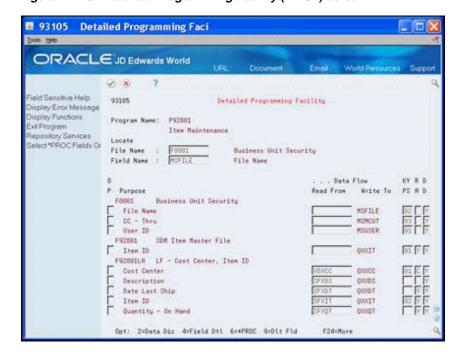


Figure 11–15 Detailed Programming Facility (KLIST) screen

Define Processing Options

This chapter contains these topics:

- Section 12.1, "Overview,"
- Section 12.2, "Example Interactive Programs Using Processing Options,"
- Section 12.3, "Example Report Program Using Processing Options,"
- Section 12.4, "Defining Processing Options."

12.1 Overview

Processing options allow individual programs to perform in many different ways. They are analogous to mechanical switches that you set before you run the program. Processing options allow users to enter parameters prior to running a program which cause varied outcomes of the program. Processing options:

- Control which fields appear on the data entry screen
- Control how the program processes data
- Set up certain default values for entry

The Define Processing Options function allows you to define processing options that the program uses. After you define the processing options, you can access them through the DREAM Writer versions list and change the processing values for a specific version. To define processing options you must be familiar with the Processing Options Setup screen.

The system stores information in the DREAM Writer Master Parameter file (F98301). The system retrieves the processing options in the housekeeping subroutine S999 by including a copy member which accesses a program to retrieve the values and enter them into array @OP.

When you define processing options, you must be aware of the following:

- The system makes the following changes to the RPG source code:
 - Creates an O record type in file F98301.
 - Brings in /COPY statement for E81DRPT.
 - Brings in /COPY statement for C81DRPT.
 - Brings in EXSR C81DRPT statement in the housekeeping subroutine S999.
 - Loads processing options to array @OP, which has 99 elements of 25A.
- You must add code manually via the Source Entry Utility (SEU) or Program Design Language (PDL) to use the processing options in a program.

You add source code in the housekeeping subroutine S999 to move the processing option into a program work field.

Example: MOVEL @OP,1 \$PO1 2

The system uses the program work field with PDL, or you can manually add source code to the program via SEU. A PDL example follows:

```
\ If document type is blank, \
\ use Processing Option as default \
begin
If VDDCTO = ' ' Then
VDDCTO := $PO1;
```

- The program needs to have values for Program ID (PSPID) and Version ID (PSVERS) to retrieve the processing option values from the DREAM Writer parameter file:
 - If your program is a report program, the system generates PSPID and PSVERS automatically as PLIST parameters. Therefore, you do not need to do anything.
 - If your program is an interactive program, you must add PSPID(10) and PSVERS(10) as the first two PLIST parameters. Remember to modify any programs that launch this program so that the system delivers these two parameters.

12.1.1 What You Should Know About

Торіс	Description
Program Generator	The program generator does not include code that controls interactive processing options. The program generator does control some of the tasks for batch programs. The text you enter on the Processing Options Setup screen does not convey instructions to the program generator.

12.2 Example - Interactive Programs Using Processing Options

Following is an example of an interactive program containing processing options.

When you search in SEU for string C9803, the following screen displays:

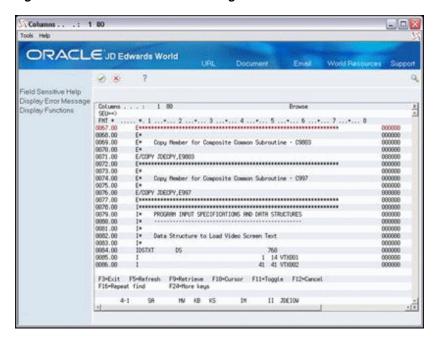


Figure 12–1 Search Results for String C9803 screen

This code copies the E Specs that relate to the common subroutine. This code defines all necessary arrays and tables for the copy module C9803. Typically, you add copy statements such as this at the end of the E Specs.

The next section of code in this program that relates to processing options is as follows:

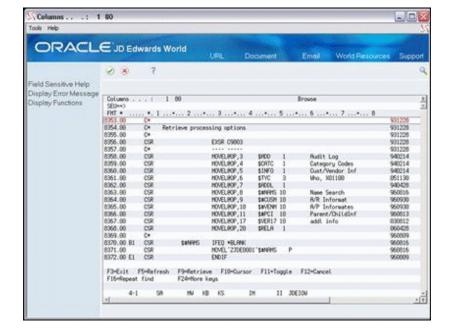


Figure 12-2 Search Results for String C9803 (Next) screen

The system loads the @OP array for the processing options. @OP1 contains the first of 99 processing option values, which is the value the user enters in the processing option you assign to position 1. The system then moves it into another program field to use.

The next section of code that relates to processing options is as follows:

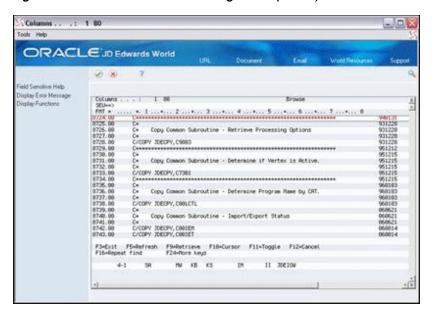


Figure 12–3 Search Results for String C9803 (@OP1) screen

This code copies the C Specs for C9803. This copy module contains code for the actual subroutine C9803. The code accesses a program that retrieves the processing option values for the DREAM Writer version you execute.

12.3 Example - Report Program Using Processing Options

The program generator builds segments of code that the system requires to processing the processing options. The code that relates to report processing options exists in two locations. The locations are where the program generator copies the:

- Extension Specifications that relate to the common subroutine for retrieving processing options.
- Calculation Specifications that relate to the common subroutine for retrieving processing options.

12.4 Defining Processing Options

This section includes the following tasks:

- To enter processing options
- To view code for the processing options

To enter processing options

1. On Define Generator Specifications, enter 1 in the Option field to access Define Processing Options:

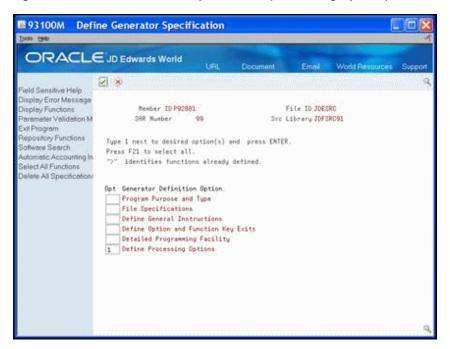


Figure 12–4 Define Generator Specification (Processing Options) screen

- Complete the following fields on Processing Options Setup:
 - Sequence
 - Text
 - Option Number
 - Date (0/1/
 - RJ (Right Justify)
 - Text Only
 - DL (Display Level)
 - Field Name

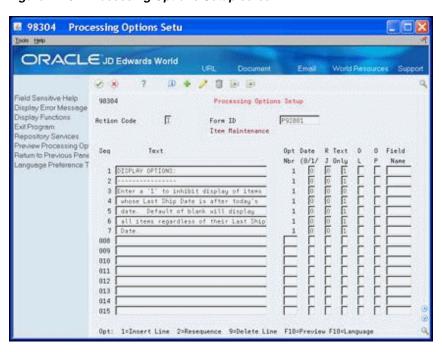


Figure 12–5 Processing Options Setup screen

Field	Explanation
Seq	Specifies how the processing option text lines should be ordered on the screen. Not input capable.
Text	The descriptive text for the processing option.
Opt Nbr	The Processing Option Number field specifies for DREAM Writer processing options the array index position for each processing option. This number should never change once assigned. The sequence number of processing options may be changed to allow for better presentation on the Processing Options Entry program but the processing option number should never be changed. This field is not input capable for existing lines of text.
	Screen-specific information
	You can change the sequence number of processing options to allow for better presentation on the Processing Options Entry program, however, you should never change the processing option number because the program includes code specific to the array position for the Processing Option value.
Date (0/1) (0/1/2)	The Date Field specifies whether or not the processing option refers to a date.
	Valid values are:
	0 – Indicates that the information is not a date.
	1 – Indicates that a date is to be stored in the processing option as a Gregorian date in month, day and year format.
	2 – Indicates that a date is to be stored in the processing option as a Julian date in century, year and day format.
	3 – Indicates the same as a "2" with the exception that the display AND entry format is "YYYY/MM/DD" (full four digit year).
	NOTE: All data entry for date information is entered in SYSTEM FORMAT with the exception of the "3".

Field	Explanation
R J(Right Justify)	Determines if the entry field is right-justified. Valid values are:
	0 – Information is not right-justified
	1 – Information to be entered is numeric and should be right-justified
	2 – Information to be entered is to be right-justified and left-filled with blanks
Text Only	The Text Only field is used to specify whether the text line is text only or a processing option value entry line. This allows you to specify multiple lines of text to document each processing option. The values for this field are
	1 – for text only
	0 – for a value entry line.
	Each separate processing option can have only one input value, or "0" value.
D L (Display Level)	This field controls which processing options are displayed to a user based upon the user's Level of Display (LOD) value in the JD Edwards World User Information file. If the User's LOD is equal or greater, PO is displayed.
Field Name	The internal field name assigned to each option and function key.
	Correlation exists between this field and the Function Key Definitions repository.
	Maintained in the soft coding server data structure (I00SC).
	 This is a required field
	■ Use #S01 - #S15 for options
	■ Use #F01 - #F15 for function keys
	Program-specific information
	The data dictionary item name. Examples include F#MMCO or F#CO for company; F#MMCU or F#MCU for business unit; and F#RP01-30 for business unit category codes 01 through 30.
	Special characters are not allowed as part of the data item name, with the exception of #, @, \$.
	If you want to create protected data names without JD Edwards World' interference, use \$xxx and @xxx, with xxx being user-defined.
	DREAM Writer NOTE: Within the Processing Options Setup screen, the field name is used during data entry to edit field size and other field attributes.
	Used to validate against the data dictionary.
	Screen-specific information
	Note: On the Processing Options Setup screen, the system uses the field name during data entry to edit field size and other field attributes for DREAM Writer.

To view code for the processing options

- 1. On Software Versions Repository, locate the program for which you are adding processing options.
- **2.** Enter 1 in the Option field next to the line in the subfile for the program. The code for the program displays on the Browse screen.

- **3.** Scan for the following instances within the code:
 - Where you instruct the compiler to retrieve the requisite source for the Extension Specification that relate to the C9803 subroutines.
 - Where you interpret and act upon the values in the processing options.
 - Where you instruct the compiler to copy the source for the calculation specifications that relate to the C9803 subroutine.

12.4.1 Function Exits

Repository Services (F6)

Choose Repository Services (F6) to access a screen with a list of JD Edwards World repositories.

Language Preference Text (F18)

Choose Language Preference Text (F18) to access a screen that you use to enter language specific processing options.

Part III

Program Design Language

This part contains these chapters:

- Section 13, "Overview to Program Design Language,"
- Section 14, "About PDL Statements and Syntax,"
- Section 15, "Understand Additional PDL Operations."

Overview to Program Design Language

This chapter contains these topics:

- Section 13.1, "Objectives,"
- Section 13.2, "About PDL."

13.1 Objectives

- To work with Data Item Formula Revisions
- To understand Program Design Language (PDL) statements and syntax
- To understand PDL editing, parsing, and source generation

13.2 About PDL

Use PDL to create specifications within the Detailed Programming Facility that causes specialized source code to generate. Use PDL for calculations or comparisons. When the program generates, the program generator converts the code into RPG source code.

Enter PDL code prior to the standard code that the program generator creates. If you want the PDL code to follow the standard code for a field, enter the PDL code on the field immediately following the field with which it is associated. The program generator creates all source code for fields in alphabetical order.

CASE stores PDL in the User Defined Procedures file (F93109) with one record per formula. The User Defined Procedures Detail file (F93110) divides the F93109 file into statements. The F93110 file contains multiple records for each formula.

PDL checks variable definitions as follows:

- Checks the variable to see if it is a keyword
- Checks for the variable in the RPG program
 - If not in the program, checks to see if it exists in the Data Dictionary Repository
 - If not in the Data Dictionary Repository, the user must define the variable

The PDL uses:

- Data Item Formula Revisions screen
- PDL Statements
- **Blocks of Statements**

- Comments
- Assignments
- **Database Operations**
- Calls
- Loops
- Conditions
- Miscellaneous Keywords and Syntax

Perform the following tasks:

- Work with Data Item Formula Revisions
- Understand PDL Statements and Syntax
- Understand Additional PDL Operations

About PDL Statements and Syntax

This chapter contains these topics:

- Section 14.1, "About PDL Statements,"
- Section 14.2, "About Blocks of Statements,"
- Section 14.3, "About Comments,"
- Section 14.4, "About Assignments,"
- Section 14.5, "About Database Operations,"
- Section 14.6, "About Program Calls,"
- Section 14.7, "About Loops,"
- Section 14.8, "About Conditions,"
- Section 14.9, "About Miscellaneous Keywords and Syntax."

A Data Item Formula consists of Program Design Language (PDL) statements. PDL statements form the following types of operations.

- Blocks of statements
- Comments
- Assignments
- Database operations
- Program calls
- Loops
- Conditions
- Miscellaneous keywords and syntax

You must use specific syntax when you work with PDL statements.

14.1 About PDL Statements

A PDL statement combines one or more of the following elements:

- Keywords
- Variables
- **Database Files**
- Operators

- Constants
- Punctuation

14.1.1 Keywords

Keywords are the vocabulary of PDL. They identify the type of operation the statement performs.

14.1.2 Variables

The following are valid variable names in PDL statements:

Database field names

Examples: ABAN8, MCDL01

Screen and report field names

Examples: VDDOCO, SFTRDJ, VC0001, RR#CLS

Data Dictionary

You can use Data Dictionary fields in PDL. The system uses the data type and size as they are defined in the Data Dictionary.

Indicators

You can use indicators by using the names IN01 to IN99. You can also use INLR. You can use both of these in PDL assignment statements to set on or off, and in conditional expressions to test for on or off.

Example:

in98 := '0'

If in98 = '0' Then

Note: In PDL, the system does not use * with indicators. That is, you specify indicator 01 as in01 and not *in01.

Program Workfields

Any name that PDL recognizes as a variable, but is not a database field name, Data Dictionary field, screen or report field, or indicator, the system considers as a program work field. PDL will prompt you to define its data type.

Examples: \$#am1, \$#xtp, \$po1

Be aware that if you did not yet generate the source code, PDL is not able to search the source code to find a definition.

14.1.3 Database Files

You must first define a database file name in the File Specifications before you can use it in one of the database I/O statements. PDL does not add file names to the specifications.

14.1.4 Operators

You define the valid assignment and arithmetic operators.

14.1.5 Constants

You specify alpha constants by enclosing them in single quotes. You specify numeric constants without quotes.

```
Examples:
vc0001 := 'Proof Mode';
```

\$#am1 := 0;

PDL does NOT recognize the RPG constants such as *BLANK or *ZERO.

14.1.6 Punctuation

The basic PDL punctuation is a semi-colon (;), which you must use to separate PDL statements.

14.2 About Blocks of Statements

14.2.1 Keywords and Syntax

Keywords	Explanation
Begin	Initiates a block of statements.
	The syntax is: Begin
End	Terminates a block of statements initiated by the Begin statement.
	The syntax is: End

14.2.2 Rules

You must enter all Data Item Formulas within a Begin...End block. A comment statement may precede the Begin statement. For example:

```
\ Use system date as default. \
Begin
If vdtrdj = ' ' Then
  vdtrdj := $$edt;
```

You must separate all statements within a Begin...End block by a semicolon. For example:

```
\ Load A/B name to vc0 field. \
Begin
aban8 := q3an8;
chain f0101la;
If in98 = '0' Then
vc0003 := abalph;
```

End

You can nest Begin...End up to a maximum of 50 levels. For example:

```
\ Computer counter. \
Begin
If zaclst = '900' Then
  Begin
    rr#nin := ' 1';
    $#nin := 1;
End;
If zaclst < '900' Then
Begin
    rr#nin := ' 0';
    $#nin := 0;
End
End
```

14.3 About Comments

14.3.1 Keywords and Syntax

Syntax	Explanation
\ (backslash)	Initiates and terminates a comment.
	The syntax is: \ text \
	You must enclose all comments within a pair of backslashes.

14.3.2 Rules

Comment lines must not exceed 50 characters.

For example: Initial Comment \ Compute extended amount. \ Begin #xtp := q2xqt * q2uncs;End For example: Embedded Comment Begin $\#am1 := 0; \ \ Order \ Total \ \$ $\#xtp := 0; \setminus Extended Amount \setminus$ End

14.4 About Assignments

14.4.1 Operator and Syntax

Operators	Explanation	
:=	The assignment operator. The system assigns the first variable the value of the variable or expression following the operator.	
	The syntax is: variable := expression;	
+	Add	
-	Subtract	
*	Multiply	
/	Divide	
11	Concatenate	
>	Blank and Concatenate	
l<	Truncate and Concatenate	
SST	Substring	
	The syntax is: variable := SST (field,n1,n2)	
	n1 = start position	
	n2 = length of string	

14.4.2 Rules

You can use standard notation using parentheses for arithmetic operations.

For example:

```
in98 := '0';
vdremk := 'NOT DEFINED';
sftrdj := $$edt;
\#am1 := \#am1 + (qzqty * qzcst);
\#wrk := 100;
abalph := vd#fnm |> vd#lnm;
c := SST (qxxcc,3,10)
```

14.5 About Database Operations

14.5.1 Keywords and Syntax

Keywords	Explanation
Chain	Provides for random data base processing.
	The syntax is: CHAIN file;

Keywords	Explanation
Delete	Provides the ability to delete the current data base record.
	The syntax is: DELETE file;
Poseq	Provides for the positioning of a pointer to a specific data base record that is equal to or greater than the key value you specify.
	The syntax is: POSEQ file;
Posgt	Provides for the positioning of a pointer to a specific data base record that is greater than the key value that you specify.
	The syntax is: POSGT file;
Read	Provides for sequential data base processing by reading the next record in the file you designate.
	The syntax is: READ file;
Readc	Provides for processing of workstation files to obtain the next record change in a subfile.
	They syntax is: READC file;
Reade	Provides for sequential data base processing by reading the next record in the file with a key equal to the one you specify.
	The syntax is: READE file;
Readp	Provides for sequential data base processing by reading the record previous to the record read in the file you designate.
	They syntax is: READP file;
Update	Provides the ability to update the current data base record.
	The syntax is: UPDATE file;
Write	Provides the ability to add a new data base records.
	The syntax is: WRITE file;

14.5.2 Rules

You must first define the file in the program using the File Specifications before you enter it in the statement.

The Chain, Poseq, Posgt, and Reade statements use the default KLIST name that the system generates for the file you specify.

You should assign a value to each field of the KLIST prior to entering the statement.

Specify indicator 98 in the statements to signify that the system did not retrieve a record for the program.

Specify indicator 99 in the statements to signify that a database operation error took place.

```
\ Load A/B name to vc0 field. \
```

Begin aban8 := q3an8;chain f0101la; If in98 = '0' Then vc0003 := abalph;

End

14.6 About Program Calls

14.6.1 Keywords and Syntax

Keywords	Explanation
Call	Allows you to execute another program.
	The syntax is: CALL variable;
Parm	Allows you to deliver parameters to a program that the program call statement executes.
	The syntax is: PARM variable;

14.6.2 Rules

Neither the Call statement nor the Parm statement allows the use of constants.

Prior to the Call statement you must enter an assignment statement to load a variable with the name of the program to launch, and load one or more variables with the values of the parameters.

The Parm statements must immediately follow the Call statement.

For example:

```
Begin
##pid := 'P1540';
##vers := 'ZJDE001';
##doco := nrdoco;
Call ##pid;
Parm ##pid;
Parm ##vers;
Parm ##doco;
End
```

14.7 About Loops

14.7.1 Keywords and Syntax

Keywords	Syntax
Until	Provides for loop processing where the system evaluates a condition at the bottom of the loop.
	 Translates to DOU in the RPG code.
	The syntax is: UNTIL (condition) DO (Statement)

Keywords	Syntax
While	Provides for loop processing where the system evaluates a condition at the top of the loop.
	 Translates to DOW in the RPG code.
	The syntax is: WHILE (condition) DO (Statement)
Do	An integral part of the loop statement.

14.7.2 Rules

The Do keyword is an integral part of the loop statement.

The statement following Do can be a single statement, or a block of statements within a Begin...End block.

The action is simply two expressions that you separate.

For example:

Begin

While in 98 = '0' Do

Begin

#xtp := q2xqt * q2uncs;

#am1 := #am1 + #xtp;

reade f59422;

End

End

14.8 About Conditions

14.8.1 Keywords and Syntax

Keywords	Explanation Provides for conditional processing.	
If		
	 § The condition is two expressions that you separate by a relationship. 	
	§ The data types of the expressions have to match. For example, alpha to alpha, numeric to numeric.	
Then	Specifies the starting point for all actions the system takes when the condition of the If statement is met.	
Else	Enter these statements following the If and Then statements. The system executes these statements when the condition of the If statement is not met.	

The Then keyword is an integral part of the If statement.

The statement following the Then keyword can be a Begin/End block to allow for a block of statements when the condition is met.

- The Else statement can follow the statements you enter with If (condition) and Then (statement).
- The syntax is: IF (condition) THEN (statement) ELSE (statement)

14.8.2 Symbols

Symbols	Explanation
=	Equal
1/4	Not Equal
>	Greater Than
<	Less Than
>=	Greater Than or Equal To
<=	Less Than or Equal To

14.8.3 Rules

You do not have to enter the semicolon (;) to end the statement following the Else, or the Then when there is no Else.

For example, a simple If...Then statement:

```
Begin
If sftrdj = ' ' Then
sftrdj := $$edt
End
For example, an If...Then...Else statement
Begin
If in 98 = '0' Then
  vc0003 := abalph
Else
  vc0003 := 'NOT DEFINED'
```

End

If you nest Begin/End blocks between the Then and Else statements, you should use the semicolon after each individual statement but not following the End.

For example, an If...Then with a Begin...End statement

```
Begin
```

```
If zaclst = '999' Then
    Begin
    rr#nin := '1';
    $#nim := 1;
End
```

End

```
For example, an If...Then...Else with Begin...End statement
Begin
If zaclst = '900' Then
  Begin
    rr#nin := '0';
    $#nin := 0;
  End;
Else
  If zaclst < '900' Then
    Begin
rr#nin := '<0';
$#nin := 1-;
    End;
Else
    Begin
rr#nin := '>0';
$#nin := 1;
    End
End
```

14.9 About Miscellaneous Keywords and Syntax

14.9.1 Keywords and Syntax

Keywords	Explanation
Include	Provides the ability to include other PDL modules in the User Calculation.
	The syntax is: INCLUDE (module name)
Return	Provides for user specification of the Source of Data alone or as the result of a series of procedures.
	The syntax is: RETURN variable;

14.9.2 Rules for Include

You can keep PDL modules in the form of a copy book by designating *FORMULA in the Program ID field and *LIBRARY in the File ID field on the Data Item Formula Revisions screen.

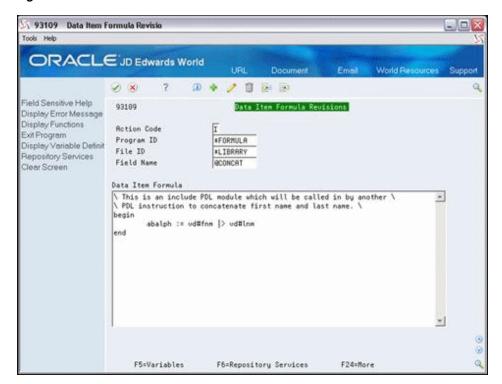


Figure 14-1 Data Item Formula Revisions screen

The include module should have a unique name, for example @CONCAT.

It is JD Edwards World naming convention to begin module names with the @ symbol.

The keyword include causes the Program Generator to automatically generate the appropriate code for the include module. This prevents the need to reenter user calculations that are necessary in numerous programs.

Following is an example of an include module and the include statement that calls the module.

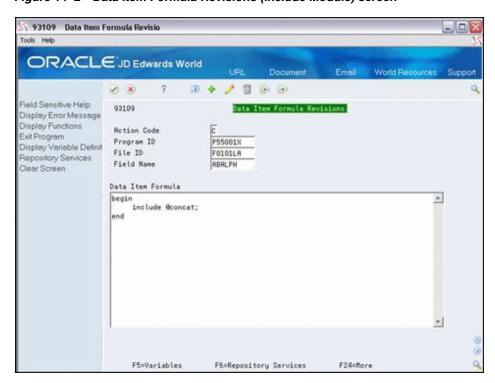


Figure 14–2 Data Item Formula Revisions (Include Module) screen

14.9.3 Rules for Return

Specifying the Return keyword is the same as entering *PROC in the Read From field in the Detail Programming Facility.

The system omits all standard processing for this data field. In other words, by specifying the Return keyword, the system uses the code the PDL generates instead of any standard logic.

For example:

begin

\$#b1 := 0;

\$#b1 := q2xqt * q2uncs;

return \$#b1

end

Understand Additional PDL Operations

This chapter contains these topics:

- Section 15.1, "Editing,"
- Section 15.2, "Parsing,"
- Section 15.3, "Source Code Generation,"
- Section 15.4, "Add PDL to a Field,"
- Section 15.5, "Function Exits."

15.1 Editing

The Data Item Formula is one long continuous field. If there is an error, the entire field displays in reverse image, and the system places the cursor in the field following the error. You can display the error messages by choosing Display Error Message (F7).

15.2 Parsing

The system stores the Data Item Formula in the File Specifications database in two forms:

- The generator stores the unparsed form in the User Defined Procedures file (F93109), with one record for one formula.
- The generator stores the parsed form in the User Defined Procedures Detail file (F93110), with multiple records for each formula. Each record corresponds to an RPG operation code.

15.3 Source Code Generation

The generator merges the PDL code into the program based on the field you enter in the Detailed Programming Facility.

Read From	Write To	Affected
1) QXXIT	VDXIT	S004 (moves database fields to video fields)
2) VDXIT	QXXIT	S005 (moves video fields to data base fields

The generator places the PDL code before the standard code Program Generator code for the field in the Write To field. If you want the code the PDL generates to replace the standard code, then enter *PROC in the Read From field.

Note: Use caution when performing this as the system performs no editing or formatting of the field, except what you enter in the Data Item Formula.

If you want the code the PDL generates to come after the standard code the Program Generator generates for the field in the Write To field, then you must place the Data Item Formula on the field immediately following the Write To field in the Detailed Programming Facility.

The generator lists the fields in the Detailed Programming Facility in alphabetical order, and you cannot change the order.

15.3.1 Data Item Formula Examples

Two examples illustrate the PDL statements and syntax. Both are from an inquiry program with a subfile.

15.3.1.1 Example User Defined PDL

The example illustrates a data item formula for a user defined PDL entry point in subroutine S004. The purpose of the formula is to determine if the database record meets the search criteria for order number (\$SEL = 0 to omit). The program work fields \$doco1 and \$doco2 contain the lower and upper values for the inquiry search fields with a subfile.

💢 93109 - Data Item Formula Revisio Tools Help ORACLE JD Edwards World World Resources ? 🗓 🕂 🥖 📋 📴 ✓ × Field Sensitive Help 93109 Data Item Formula Revisions Display Error Message Display Functions Action Code Exit Program Program ID Display Variable Definit File ID Repository Services Field Name Clear Screen Data Item Formula \ Test order number for inclusion. \ . If vddoco = ' ' Then If gldoco < \$doco1 Then \$sel := '0'; If vd#doc = ' Then If gldoco > \$doco2 Then \$sel := '0'; F5=Variables F6=Repository Services F24=More

Figure 15-1 Data Item Formula Revisions (User Defined PDL) screen

This example also illustrates the following types of PDI	L statements:
--	---------------

Type of PDL Statement	Description
Assignment	\$sel := '0'
Blocks	beginend
Comment	\ Test order number for inclusion. \
Condition	If $q1doco < doco1$ Then $sel := '0'$;

Additionally, this example illustrates the nesting of conditions:

If vddoco = ' ' Then

If q1doco < \$doco1 Then

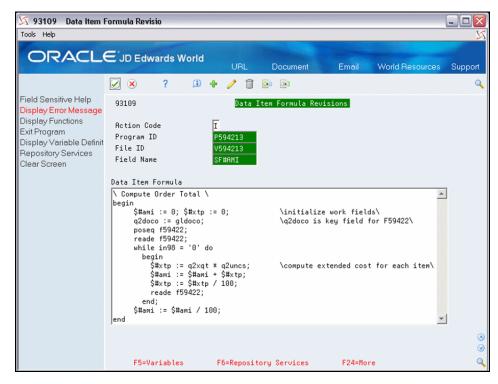
??\$sel := '0';

The statement separator, the semicolon, is not necessary until the outermost If...Then statement is complete.

15.3.1.2 Example Subfile Field

This example illustrates a data item formula for a subfile field that is a computed field. The program is locating sales order header records. The computed field is the order total and is based on the sales order detail records in F59422.

Figure 15-2 Data Item Formula Revisions (Subfile Field) screen



This example illustrates the following types of PDL statements:

Type of PDL Statement	Description
Assignment	\$#ami := 0; \$#xtp := 0;
	q2doco := gldoco;
Blocks	Notice the beginend nested within the whiledo
Comment	Notice the embedded comments as well as the heading comment
Database	poseq f59422;
	reade f59422;
Loops	while in98 = '0' do
	beginend

You can separate statement separators in the loop statements within the Begin...End block, and then follow the end statement with a separator.

15.4 Add PDL to a Field

To work with Data Item Formula Revisions

- 1. On Software Versions Repository, locate a program and then access Define General Specifications.
- 2. On Define General Specifications, enter 1 the Option field to access Detailed Programming Facility.
- 3. On Detailed Programming Facility, enter 6 in the Option field next to the field for which you want to add PDL.

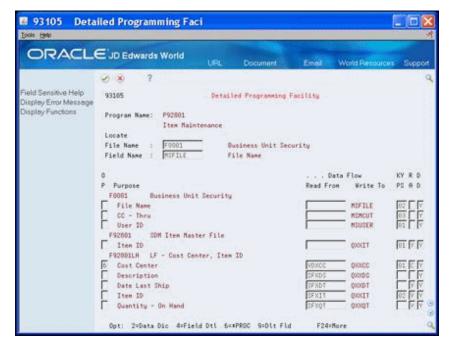


Figure 15–3 Detailed Programming Facility (Revisions) screen

The Data Item Formula Revisions screen displays.

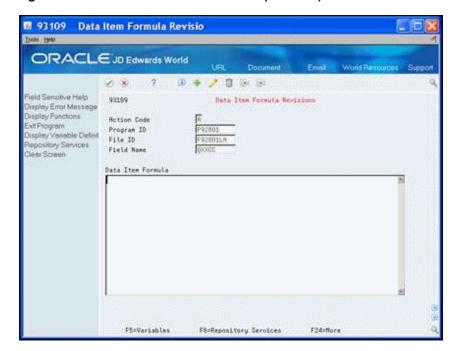


Figure 15-4 Data Item Formula Revisions (Add PDL) screen

Enter the PDL statements for the field in the Data Item Formula area.

Field	Descriptions
Program ID	The RPG program name defined in the Software Versions Repository Master table.
File ID	The member ID of the file used by the program.
Field Name	This specifies the field name as it is identified in the file.
Data Item Formula	A set of Program Design Language (PDL) statements, which are then translated into RPG code.

15.5 Function Exits

Display Variable Definitions (F5)

Choose Display Variable Definitions (F5) to access a screen with a list of variable definitions.

Repository Services (F6)

Choose Repository Services (F6) to access a screen with a list of JD Edwards World technical functions or repositories.

Part IV

Source Modifications

This part contains these chapters:

- Chapter 16, "Overview to Source Modifications,"
- Chapter 17, "Change Generated Source Code,"
- Chapter 18, "Regenerate Source Code,"
- Chapter 19, "Work with Model Control Language Programs."

Overview to Source Modifications

This chapter contains these topics:

- Section 16.1, "Objectives,"
- Section 16.2, "About Source Modifications."

16.1 Objectives

- To change source code
- To regenerate source code
- To copy and customize Model Control Language (CL) Programs

16.2 About Source Modifications

After you generate source code, you can make modifications to it by using the Program Generator steps or using Source Entry Utility. When you make changes to your CASE specifications, you need to regenerate the source. CASE allows for continual improvement and modification to your original specifications.

Perform the following tasks

- Change generated source code
- Regenerate source code
- Work with model contral language programs

Change Generated Source Code

This chapter contains the topic:

Section 17.1, "Pre-SEU and Post-SEU Process."

After you generate code for a specific program, you can enter any necessary modifications to the code by using the Source Entry Utility (SEU). The program generator maintains a copy of all modifications in a separate file. When you make changes to the files for the program, or the detailed field definition parameters, you can regenerate the program source to reflect the changes and maintain your modifications.

The Program Generator indexes the modification lines based on the data the system maintains in column positions 81 through 113. After the program generates, it merges the modification lines in to the generated code according to their index values.

There are two different methods to change generated source code.

17.1 Pre-SEU and Post-SEU Process

A front-end JD Edwards World program, MPxxxxx, monitors the changes on the SEU. The MPxxxxx job does not have to finish before you recompile. The system automatically merges the changes on the SEU when you generate the program, not when you compile. The system stores all changes on the SEU in the Pxxxxx member in the Additional Help/Modifications Master file (F93002).

For source code lines that you move or copy, you must clear the serial number from column 80 onward.

You can view all changes on the SEU by entering 30 in the Option field on the Software Versions Repository.

Columns 1 and 2 include a 21 for lines you add, 22 for changes, and 23 for lines you delete.

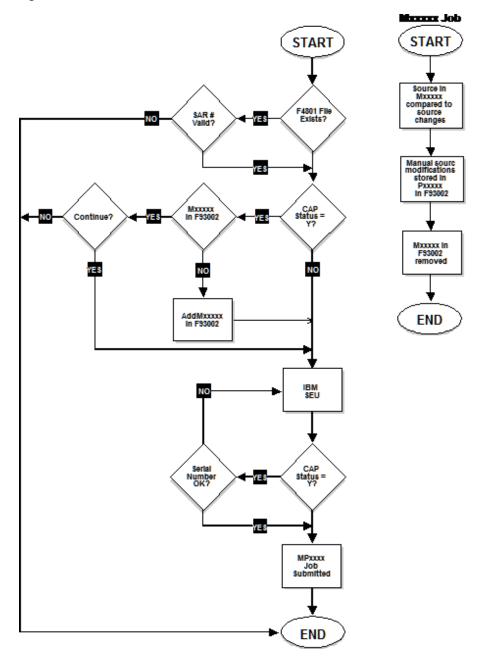


Figure 17–1 Pre-SEU and Post-SEU Processes

To change generated source code

From the Software Versions Repository, locate a program and perform one of the following:

- 1. Enter 2 in the following field to access the JD Edwards World SEU feature
 - Option
- **2.** On SEU, make your changes.

When you change your program using SEU, you do not have to regenerate the code. You only need to recompile the changes.

Alternatively, after you locate a program on Software Versions Repository you can:

- Access Define General Specifications.
- On Define General Specifications, enter 1 the following field to access Detailed Programming Facility.
 - Option
- **3.** On Detailed Programming Facility, enter 6 in the following field next to the field for which you want to change PDL.
 - Option
- **4.** On Data Item Formula Revisions, make your changes.

Regenerate Source Code

This chapter contains these topics:

- Section 18.1, "When to Regenerate Source Code,"
- Section 18.2, "Changing CAP Status,"
- Section 18.3, "Resolving CAP Status Invalid Error."

When regenerating source code you should know:

- When to regenerate source code
- How to solve a generation error

18.1 When to Regenerate Source Code

You should regenerate a program whenever you modify a program specification. You should regenerate your programs when you:

- Change the program type
- Add or remove a file from the program file specifications
- Change the content of a file

You must repeat the File Specifications step in this situation to enter the new information into the Detailed Programming Facility.

- Add or change a function exit or selection exit
- Change a data field definition parameter, for example:
 - Add, change, or delete a PDL
- Add, change, or delete the Full Data Field Parameters
- Add Processing Options to a program that previously did not have any, or delete all Processing Options
- Change the Lockout Action field values

When you add, change, or remove a file in the program or change the program type, you must access the File Specifications screen from the Define Generator Specification screen and click Enter to submit the Detailed Field Specifications interactive job.

You can view all changes on the SEU by entering 30 in the Option field on the Software Versions Repository.

Columns 1 and 2 include a 21 for lines you add, 22 for changes, and 23 for lines you delete.

18.2 Changing CAP Status

If you change the CAP Status field, the system deletes the changes in the Source Entry Utility that it stores in the P member of the Additional Help/Modifications Master file (F93002). JD Edwards World recommends that you do not change the CAP Status field unless the changes you make to your program become unmanageable. When the CAP Status field is set to Y, you can regenerate your program from one JD Edwards World release to the next.

Change the CAP Status to N when either of the following occurs:

- You test the program and are ready to move it into production.
- You must make large manual changes that the program generator cannot generate for you. For example, adding special subroutines or complicated calculation logic.

To change CAP status

- 1. On Define Generator Specification, enter 1 in the following field next to Program Purpose and Type.
 - Option
- On Program Purpose and Type, enter N in the following field.
 - **CAP Status**

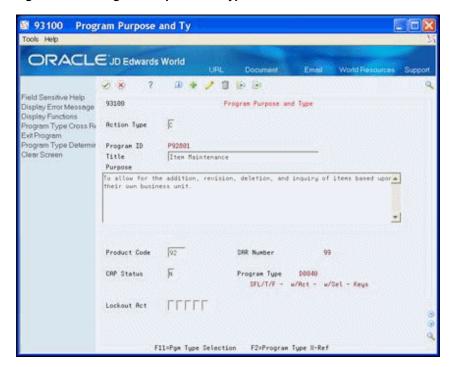


Figure 18–1 Program Purpose and Type screen

The Delete KBG Modifications screen displays.

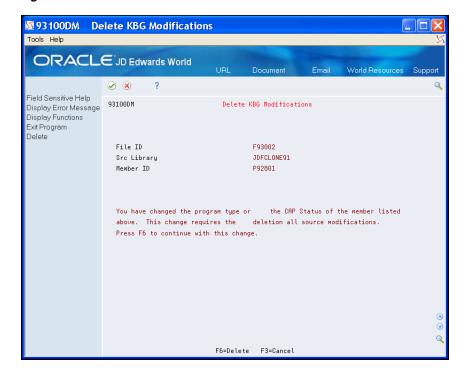


Figure 18–2 Delete KGB Modifications screen

To remove the modifications member, choose Delete (F6). The Define Generator Specification screen displays.

18.3 Resolving CAP Status Invalid Error

The Program Generator verifies that the job completes normally before each source generation. When the program generator does not complete normally or if you delete the specifications for a program, the system sends an error message to your workstation that states: CAP Status Invalid for program Pxxxx ... generation terminated.

If you receive a message in the job log indicating that the buffer length is longer than the record, or field AGSRCS is not found, verify that the JDESRC file in your source library exists and has a length of 142 and 8 fields.

To resolve the CAP Status Invalid error, perform any of the followng:

Possible Resolution Description

Ensure the CAP status is set to Y on the Program Purpose and Type screen.

Any job that prevents the MPxxxxx job from completing normally will change the CAP Status to N.

- Allow the MPxxxxx job to complete.
- Do not cancel it in the job queue.

If you change the CAP Status field to N, the system deletes the changes in the Source Entry Utility that it stores in the P member of the Additional Help/Modifications Master file (F93002).

If the File Specifications ends abnormally, the system changes the value in the CAP Status field to D. Change the value in the CAP Status field to Y and process the file specifications.

Possible Resolution	Description
Ensure the Pxxxxx member exists in the Additional Help/Modifications Master file (F93002).	The Pxxxxx member must exist in order to generate a program.
	The system initially creates the Pxxxxx member during the Program Purpose and Type definition step.
Ensure the Mxxxxx member does not exist in F93002.	The Mxxxxx member must not exist in order to generate a program.
	Use the RMVM command to remove this member.
Ensure that one step of the generation process completes before you start the batch job of another step.	NA

Work with Model Control Language Programs

This chapter contains these topics:

- Section 19.1, "Working with CL Models,"
- Section 19.2, "JD Edwards World Model CL Programs."

Control language (CL) is the primary interface between the system programmer and the AS/400 operating system. A command is a single control language statement. A series of commands can serve as source statements you can use to create a CL program. You compile the commands into a program the system calls whenever it needs the functions the program provides.

JD Edwards World provides you with a series of model CL programs that you can copy and change to call the CASE programs that you develop. You must use a CL program to add an RPG program as an option on a JD Edwards World menu.

You use the Source Entry Utility (SEU) to change the source code for your CL programs. When adding a new CL program using SEU, you can copy the JD Edwards World model CLs and tailor their specifications to fit your needs.

Note: You can view only the source code if the source code resides on your machine.

19.1 Working with CL Models

To copy a model CL

- On Software Versions Repository, locate a model.
- Enter 3 in the Option field next to the program.
- Click Enter in the Copy Source Prompt window.
- On Software Versions Repository, enter 2 in the Option field next to the program. The source code displays.
- On the Source Entry Utility, enter the new program name.

The following illustrates the source code for J98MODEL1 using the program Help. You can also view the code using the Software Versions Repository.

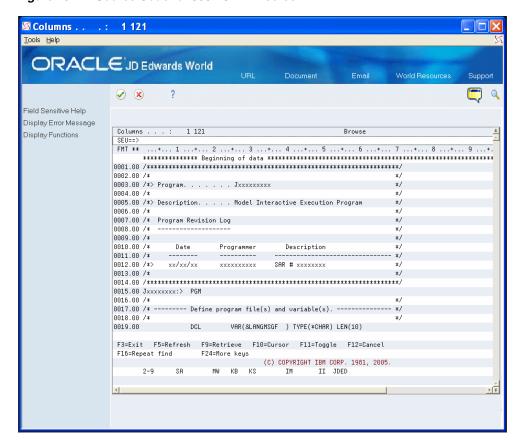


Figure 19–1 Source Code for J98MODEL1 screen

To customize a CL model

On the Source Entry Utility, locate the lines that contain lower-case xx and make changes.

The lines in the model that require changing contain lower-case xx. This design allows you to easily scan the code for the xx and enter your changes.

- Exit and save the CL program.
- Compile the program.

19.2 JD Edwards World Model CL Programs

JD Edwards World includes a series of model CL programs that you can copy and customize to meet your programming needs. The following table describes each model CL program.

Model CL Programs	Description
J98MODEL1	Serves as a template for all interactive programs that do not retrieve processing options in the CL code.
J98MODEL2	Serves as a template for batch programs that need the DREAM Writer but have no printer file.
J98MODEL3	Serves as a template for interactive programs that need a prompt for parameters.

Model CL Programs	Description
J98MODEL4	Serves as a template for either batch or interactive programs that require the retrieval of processing options in the CL code, but do not require DREAM Writer selection or sequencing.
J98MODEL5	Serves as a template for batch CL programs that call report programs with fixed selection and sequencing while still passing all printer file overrides, processing options, and page-heading functions to the RPG report program.
J98MODEL6	Serves as a template for batch CL programs that require all DREAM Writer functions and call multiple print programs over the same OPNQRYF access path.
J98MODEL7	Serves as a template for batch CL programs that require all DREAM Writer functions and call multiple print programs over the same OPNQRYF access path.
J98MODEL8	Serves as a template for batch programs that have a control file.

You can create certain model CL programs using the Quick Start CL Generator. See Chapter 25, "Work with Quick Start CL Generator" for more information.

Part V

CASE Programs

This part contains these chapters:

- Chapter 20, "Overview to CASE Programs,"
- Chapter 21, "Overview to Subfile Inquiry Programs,"
- Chapter 22, "Overview to Subfile Maintenance Programs,"
- Chapter 23, "Create Report Programs."

Overview to CASE Programs

This chapter contains these topics:

- Section 20.1, "Objectives,"
- Section 20.2, "About CASE Programs."

20.1 Objectives

To create CASE programs

20.2 About CASE Programs

Perform the following tasks:

- **Create Subfile Inquiry Programs**
- Create Subfile Maintenance Programs
- **Create Report Programs**

Note: The Report Design Aid is currently not available in the Java platform for JD Edwards World software. You must create reports using the green screen platform of the software.

Overview to Subfile Inquiry Programs

This chapter contains these topics:

- Section 21.1, "Program Type Description,"
- Section 21.2, "Display File Definition,"
- Section 21.3, "CL Program Definition,"
- Section 21.4, "File Specifications,"
- Section 21.5, "Detailed Programming Facility,"
- Section 21.6, "Special Considerations,"
- Section 21.7, "Quick Start Generation."

You can create subfile inquiry programs that allow a user to process data and run programs using an inquiry screen that you create. A subfile inquiry screen presents a subfile with information, allowing a user to view several records at one time.

The use and values you enter to create a typical Interactive subfile inquiry program follow.

21.1 Program Type Description

Use the Program Type Description to create an interactive subfile program that is for inquiry purposes only. This program type processes a single master file by key. You do not use Lockout Action Codes fields. Create a display file prior to generating this program type.

21.2 Display File Definition

The Display File Definition program type validates and changes, where necessary, the data a user enters (scrubs) the key fields in the control format of the display file prior to processing the master file. You denote the key fields by enter K in the Edited Field in the Field Definition screen of Screen Design Aid (SDA). If you are using the Data Base Field Selection feature in SDA, the system updates the key fields.

You do not need to define the Action Code, it is an optional field. Define a default cursor location if there is no action code.

21.3 CL Program Definition

Using the CL Program Definition, you can copy and revise the J98MODEL1 model CL Program and create a CL program for use with program type A0010. You can also use the Quick Start CL Generator to create your CL programs.

21.4 File Specifications

The File Specifications program type requires that you define a single master file and a display file. The master file contains a value of M or 1 in the Input column. The display file begins with V and the selection columns are blank. You can add files to retrieve descriptions, if necessary.

21.5 Detailed Programming Facility

The Detailed Programming Facility allows you to use a key list for record retrieval from the master file. If you are not using the complete key list, update the Key Sequence field on the Detailed Programming Facility to include only those data items which are necessary. This key list should match your key field definition from the control format of the display file.

21.6 Special Considerations

Add special logic if you want to process the master file by using the key as a restrictive key. The default logic performs a SETLL, which positions the records from the file by using the key and then reading without a key until the subfile loads.

21.7 Quick Start Generation

You can generate this program type using Quick Start.

Overview to Subfile Maintenance Programs

This chapter contains these topics:

- Section 22.1, "Program Type Description,"
- Section 22.2, "Display File Definition,"
- Section 22.3, "CL Program Definition,"
- Section 22.4, "File Specifications,"
- Section 22.5, "Detailed Programming Facility,"
- Section 22.6, "Special Considerations,"
- Section 22.7, "Quick Start Generation."

You can create subfile maintenance programs that allow a user to process data and run programs using an interactive screen you create.

The use and values you enter to create a typical Interactive Subfile Maintenance Program follow.

22.1 Program Type Description

Use the Program Type Description program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes a single master file by key. User defined selection exits and function exits are optional.

22.2 Display File Definition

The Display File Definition program type validates and changes, where necessary, the data a user enters (scrubs) the key fields in the control format of the display file prior to processing the master file. You denote the key fields by enter K in the Edited Field in the Field Definition screen of Screen Design Aid (SDA). If you are using the Data Base Field Selection feature in SDA, the system updates the key fields.

You must define the Action Code and the Lockout Action Codes are optional.

This subfile maintenance program type includes special logic which permits the system to delete individual subfile records. This logic performs when you enter a C in the Action Code. The system compares the previous value with the current value and deletes the record if the current value is blank. The system stores the previous value in a hidden field at the subfile record level using the Display All Defined Fields in SDA.

22.3 CL Program Definition

Using the CL Program Definition, you can copy and revise the J98MODEL1 model CL program to create a CL program for use with program type D0040. Use the Quick Start CL Generator to create your CL program.

22.4 File Specifications

The File Specifications program type requires that you define a single master file and a display file. The master file contains a value of M or 1 in the Update column. The display file begins with V and the selection columns are blank. Add files to retrieve descriptions, if necessary.

22.5 Detailed Programming Facility

You use the Detailed Programming Facility to access the Full Data Field Parameters screen, which contains details for the subfile field controlling the database update. By entering N in the Update the Entry Optional Y/N field, this informs the generator that the user must enter a value in this field before the system updates the database.

22.6 Special Considerations

The Special Considerations program type uses the key information in the display file for chaining to the master file. This type must also have a hidden field and an optional entry field.

22.7 Quick Start Generation

You can generate this program type using Quick Start.

Create Report Programs

This chapter contains these topics:

- Section 23.1, "Understanding RDA Special Use Fields,"
- Section 23.2, "Creating a Total Format,"
- Section 23.3, "Defining a Subheading,"
- Section 23.4, "Understanding DREAM Writer Considerations."

When using Report Design Aid (RDA) in conjunction with the JD Edwards World CASE tools, you can have the program generator assist you with totals and subheadings.

You should be familiar with the definition and use of report totals and subheadings when using the CASE tools. You should also be aware of some DREAM Writer considerations. See Work with DREAM Writer in the in the JD Edwards World Technical Foundation Guide for more information.

Note: The Report Design Aid is currently not available in the Java platform for JD Edwards World software. You must create reports using the green screen platform of the software.

23.1 Understanding RDA Special Use Fields

The system uses certain fields in RDA when generating reports that contain dynamic (hierarchical) totaling and subheadings. The following figure and tables illustrate how the system uses these fields within a report.

VCOKEY VC0DSC Item Description Quantity **HEADING1 VC0ROW** Denver **HEADING2** Business Unit · **RR Fields** Bolt 300 2 Nut 3 Nail 400 **DETAIL1** 150 \$\$ Fields 850 VC1ROW-Business Unit · 4 Denver TOTAL1 Business Unit · · · 9 Boulder

VC1KEY

VC1DSC

Figure 23-1 RDA Special Use Fields

The system uses the following fields in the TOTAL1 format:

Field	Explanation	
VC1ROW	Prints the data dictionary row description of the level break field. Default length is 30.	
VC1KEY	Prints the value of the level break field. Default length is 12.	
VC1DSC	Prints the description of the value of the break field. Default length is 30. Only works with the following fields:	
	 User defined codes 	
	 Company Number 	
	 Address Book Number 	
	Business Unit	

The system uses the following fields in only the HEADING2 format and therefore it uses them in only a C0020 or C0025 program type - Report w/Subheadings.

When you use subheadings, the system automatically underlines them.

Field	Explanation		
VC0ROW	Prints the data dictionary row description of the level break field. Default length is 30.		
VC0KEY	Prints the value of the level break field. Default length is 12.		
VC0DSC	Prints the description of the value of the break field. Default length is 30. Only works with the following fields:		
	 User defined codes 		
	 Company Number 		
	 Address Book Number 		
	Business Unit		

In programs you generate using CASE; the level breaks are soft coded. The DREAM Writer setup determines this.

23.2 Creating a Total Format

When you define a total format, you can define the area of the report where the description of the level break occurs. You can display up to three pieces of information for each total level break:

- The field description of the level break
- The value of the field at the level break
- The description of that value

For example, if you choose to total your report at the business unit level, the report might read:

San Francisco **Business Unit** 5

To create a total format

- On Software Versions Repository, locate the report for which you want to add a total format.
- On Software Versions Repository, enter 10 in the Option field to access the Report Design Aid.
- On Report Design Aid, choose Record Formats List (F10).

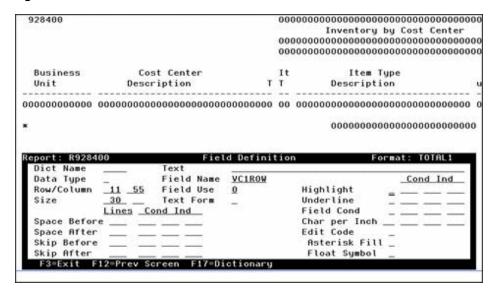
92520 Record Formats List Report: R928400 Fast Path Related # Fields Fld End Opt Format Name Type Lines Record Selected Pfx ī 009 009 F92801 000 REPORT SS 1=DB Field Selection 3-Field List 4-Delete 5-Format Keywords

Figure 23–2 Record Formats List report

- On the Record Formats List screen, complete the following fields to enter the **TOTAL1** format:
 - Format Name
 - Type
 - Start/End Lines
 - Fld Pfx (Field Prefix)
- Press enter to return to Report Design Aid.
- On Report Design Aid, enter an asterisk (*) in the column and row position to begin the total description.

The Field Definition screen displays.

Figure 23-3 Field Definition screen



- On Field Definition, enter VC1ROW in the Field Name field.
- Click Enter twice.

The description for the total field replaces the asterisk (*).

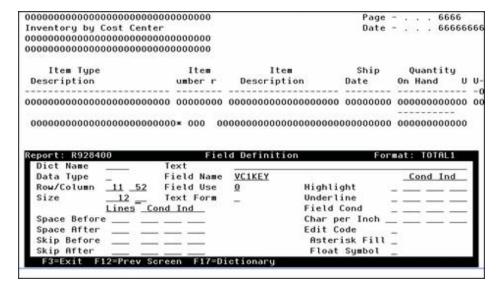
In the sample report that follows, when you print the report, the field contains the descriptive text Business Unit.

9. On Report Design Aid, enter an asterisk (*) in the column and row position to display the key value.

The Field Definition screen displays.

10. On Field Definition, enter VC1KEY in the Field Name field.

Figure 23–4 Field Definition (VC1KEY) screen



11. Click Enter.

The description for the key value replaces the asterisk (*).

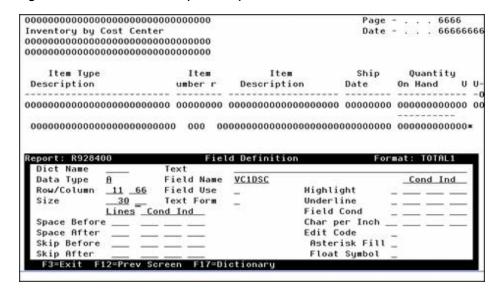
In the sample report that follows, when you print the report, the field contains the value of 5.

12. On Report Design Aid, enter an asterisk (*) in the column and row position to begin the key value description.

The Field Definition screen displays.

13. On Field Definition, enter VC1DSC in the Field Name field:

Figure 23–5 Field Definition (VC1DSC) screen



Click Enter.

The description for the key value replaces the asterisk (*).

In the sample report that follows, when you print the report, the field contains the value San Francisco.

15. On Report Design Aid, add the field to be accumulated to the report.

The field that contains data for the Quantity on Hand column is RRXQTY. The system places the total amount of Quantity On Hand in field \$\$XQTY as part of the TOTAL1 format. The program generator creates the total amount field by adding a \$\$ prefix to the data item name.

The following illustrates the report.

Figure 23-6 Inventory by Business Unit Report

928400			J.D. Edwards & Cor			Page No		2	
			Inventory by Business	Unit Report		Date -	. 12/02	/17	
Beam			It		Item	Shi	P	Quantity	
Unit	Description	Ty	Description	Number	Description	Date	On		
								Hand	Ш
	5 San Francisco Branch	N	Non-Refrigerated	2524	1 Inch Nail	06/01/17	100.00	TOE.	
	5 San Francisco Branch	N	Non-Refrigerated	2532	2 Inch Nails	06/15/17	250.00	TOE.	
	5 San Francisco Branch	N	Non-Refrigerated	2541	2 1/2 Inch Nails	05/31/17	75.00 1	300	
	5 San Francisco Branch	N	Non-Refrigerated	2559	3 Inch Nails	07/20/17	51.00	TOE.	
			Business Unit	5	San Francisco Bro	anch		476,00	

23.3 Defining a Subheading

You can define a subheading before you choose the type of detail you want in the report.

Subheading field descriptions are similar to those for totals. You can display up to three pieces of information at each subhead:

- The field description
- The value
- The description of the value of the level break fields

For example, if you choose to add a subheading to your report using business unit as the level break field, the report can read:

Business Unit 5 San Francisco

When adding the field description for the subhead, use field VC0ROW. When adding the value of the subhead, use field VC0KEY. When adding the description of the value of the subhead, use field VC0DSC.

Add these fields on the Field Definition screen in the same manner as the VC1 fields for the TOTAL1 format. On the design area, enter an asterisk (*) where the subheading field should begin. The Field Definition screen opens. Enter the field name and any other appropriate information.

To define a subheading

- On Software Versions Repository, locate the report for which you want to define subheadings.
- On Software Versions Repository, enter 10 in the Option field to access the Report Design Aid.
- On Report Design Aid, choose Record Formats List (F10).
- On the Record Formats List, enter HEADING2 on the first blank line in the Format Name field:

Report: R928400 Start Data Base / End Related No. Flds Fld 0pt Format Name Tupe File Selected Lines Record Pfx HEADING1 REPORT 001 008 000 RR 000 009 009 DETAIL1 REPORT RR 000 TOTAL 1 REPORT 010 012 \$\$ HEADING2 REPORT 013 013 RR 1=DB Field Selection 3=Field List 4=Delete 5=Format Keywords

Figure 23-7 Record Formats List (Define a Subheading) report

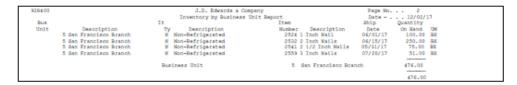
Complete the following fields:

- Type
- Start/End Lines
- Fld Pfx (Field Prefix)

The system accommodates the placement of the fields on the report.

The following is an example of a report using a HEADING2 format. The system creates this report using a C0020 program type.

Figure 23–8 Inventory by Business Unit Report (HEADING2)



Program type C0025 report prints the subheadings above the column titles as follows. You use the same steps to define this report as you use for the C0020 program type.

Figure 23–9 Inventory by Business Unit Report (Type C0025)



The report program adds the grand totals automatically because it utilizes the total format. When you use DREAM Writer and create a version, you define the fields to use as total levels. For further information regarding DREAM Writer, see Understand DREAM Writer in the *JD Edwards World Technical Foundation Guide*.

23.4 Understanding DREAM Writer Considerations

When compiling your report, use the PRTF command to print a cover page. PRTS does not print a cover page when the system finishes compiling the report.

When the program generator creates the report program, it includes a cover page. Using the DREAM Writer, you can choose to print the cover page.

The title fields the system included on the cover page are in the following example:

Figure 23-10 Cover Page With Title Fields in DREAM Writer



The VC0CO field is the name of the company. The TTL@ field is line 1 of the DREAM Writer version. TXT2 and TXT3 are lines 2 and 3 of the DREAM Writer version.

The field names for report headings are similar to those of the cover page. For report headings, the VC0CO field contains the name of the company. The DREAM Writer fields have an RR prefix. For example, RRTTL@ field contains line 1 of the DREAM

Writer version ID description. The RRTXT2 and RRTXT3 are lines 2 and 3 of the DREAM Writer version description, respectively.

Figure 23-11 Report Headings Using Field Names in DREAM Writer

929600 J.D. Edwards & Company Inventory by Business Unit Report	Page No 2 Date 12/02/17	
--	----------------------------	--

On the Additional Parameters screen in the DREAM Writer version, you must enter 2 in the Type Report Totaling field. This enables you to specify your total level fields on the Data Sequence screen.

Part VI

Additional Tools

This part contains these chapters:

- Chapter 24, "Overview to Additional Tools,"
- Chapter 25, "Work with Quick Start CL Generator,"
- Chapter 26, "Work with the Quick Start Application Tool,"
- Chapter 27, "Work with Action Diagramming."

Overview to Additional Tools

This chapter contains these topics:

- Chapter 24.1, "Objectives,"
- Chapter 24.2, "About Additional Tools."

24.1 Objectives

- To use the Quick Start CL Generator
- To use the Quick Start Application Tool
- To use Action Diagramming

24.2 About Additional Tools

You can quickly create programs, forms, and reports using:

- Quick Start CL Generator
- **Quick Start Application Tool**

Produce a diagram to illustrate the different groupings of logic and the interrelationships of code using the Action Diagramming feature.

Perform the following tasks:

- Work with Quick Start CL Generator
- Work with the Quick Start Application Tool
- Work with Action Diagramming

Work with Quick Start CL Generator

This chapter contains the topic:

Section 25.1, "Working with Quick Start CL Generator."

25.1 Working with Quick Start CL Generator

The Quick Start CL Generator provides a quick and easy way for you to create a Control Language (CL) program for any of the following four types of programs.

- Standard interactive program
- Standard report program with DREAM Writer
- File processor
- File processor with DREAM Writer

Quick Start CL Generator does not add the new CL program to a menu. You must perform that task manually.

Perform the following tasks:

- To create a program using the Quick Start CL Generator
- To compile a CL program

Navigation

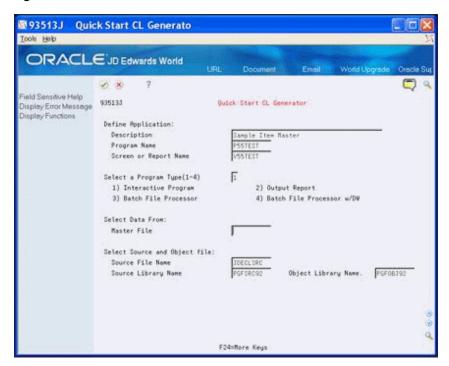
From Computer Assisted Programming (CAP) (G93), choose Quick Start CL Generator

To create a program using the Quick Start CL Generator

- On Quick Start CL Generator, complete the following fields and click Enter:
 - Description
 - Program Name
 - Screen or Report Name
 - Select a Program Type(1-4)
 - Master File
 - Source File Name
 - Source Library Name
 - Object Library Name
- **2.** Perform one of the following:

- Click Exit (F3) to return to the menu.
- Click Enter to compile the program.

Figure 25-1 Quick Start CL Generator screen



Field	Explanation
Description	Use this field to enter a short one-line description of the program you are creating.
Program Name	Type the name of the RPG program that the CL program will call. This is a required field. Do not leave it blank.
	The name of the CL program generated will be the same as the RPG program name, but prefaced with a J instead of a P.
Screen or Report Name	Type the screen or report file name associated with the program. This field is only required for program type 2.
Select a Program Type(1-4)	Type one of the following in this field to indicate the type of program you are creating:
	1 – Standard Interactive Program
	2 – Standard Report Program with DREAM Writer
	3 – File Processor
	4 – File Processor with DREAM Writer
Master File	Type the name of the data file to use for the program you are creating. This field is required for program types 2, 3, and 4.
Source File Name	The member ID of the file used by the program.
Source Library Name	File and library that contains the file source.
Object Library Name	Enter the name of the object library where the program you are creating will reside. This is defaulted from the CASE Profiles.

To compile a CL program

On Quick Start CL Generator, enter 1 to choose Compile CL Program.

Figure 25–2 Quick Start CL Generator (Compile) screen



Work with the Quick Start Application Tool

This chapter contains these topics:

- Section 26.1, "Quick Start Process,"
- Section 26.2, "Defining the Application,"
- Section 26.3, "Selecting Data Fields,"
- Section 26.4, "Browsing or Updating the Screens or Reports (Optional),"
- Section 26.5, "Compiling the Screens or Report (Optional),"
- Section 26.6, "Modifying Specifications (Optional),"
- Section 26.7, "Submitting the Program to Compile (Optional),"
- Section 26.8, "Updating the Data Dictionary and Glossary."

The Quick Start Application Tool allows you to quickly create initial versions of programs, screens, and reports. After you create a new version, you can access the Screen or Report Design Aid or the Program Generator and make adjustments to the version.

The tool provides an easy way for you to create a prototype. This program allows you to:

- Create the program that you associate with the screen or report.
- Select fields dynamically from the master and detail files, as well as other database files.
- Compile your screen or report.
- Create specifications for the Program Generator.
- Create and compile your source code, optionally.
- Create a Control Language (CL) program to launch your new screen or report program.

The Quick Start Application Tool recognizes whether the program is a subfile. Additionally, this tool:

- Adds a hidden field to the screen for subfile maintenance.
- Sets the Entry Optional field to N for subfile maintenance.

Quick Start cannot:

- Define which VC0 fields to use as defaults in the version.
- Add the CL program to a menu.

Add a Fold Area.

26.1 Quick Start Process

The Quick Start Application Tool is a set of steps that allow you to:

- **1.** Define the Application
 - Define the type of program you want to create
 - Define the screen options
 - Define the report options
 - Define the files and libraries
 - Define the source file to use to create the application
- Select Data Fields
 - Select the individual data fields to display on the screen or report using JD Edwards World Screen/Report Design Aid
 - Sequence the fields any way you choose.
- Browse or update the screens or report you are creating (optional).
- Compile screens or the report (optional).
- Modify Specifications (optional).
 - Using the File Specifications, the Detailed Programming Facility, and the Help Instructions based on the program type you select.
 - Compile the program. Even if you compile the screen or report in a previous step, the system prompts you to do so again.
- Compile the program (optional).
- Update Data Dictionary and Glossary.

Note: As you create a version, you should continue through the steps and complete the entire process. The optional steps allow you to perform additional functions that relate to the process. If you exit the process and access the tool at a later time, the system enters all of the information on the Quick Start Application Tool screen from the previous version you created if you did not sign off the system.

Navigation

From Computer Assisted Programming (CAP) (G93), choose Quick Start **Application Tool**

26.2 Defining the Application

You create versions of programs, screens, and reports by defining the initial criteria.

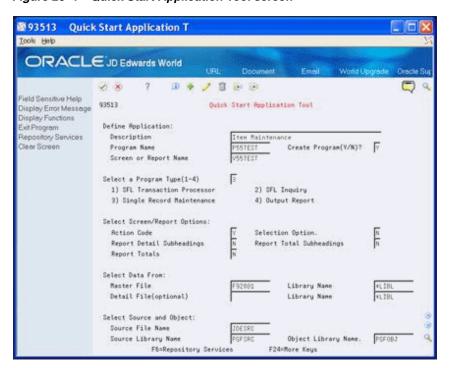
The system enters all of the information on this screen from the previous version you created if you did not sign off the system.

To define the application

On Quick Start Application Tool, complete the following fields:

- Description
- Program Name
- Create Program(Y/N)?
- Screen or Report Name
- Select a Program Type(1-4)
- Action Code
- Selection Option
- Report Detail Subheadings
- Report Total Subheadings
- Report Totals
- Master File
- Library Name
- Detail File(optional)
- Library Name
- Source File Name
- Source Library Name
- Object Library Name

Figure 26-1 Quick Start Application Tool screen



Field	Explanation
Description	Use this field to enter a short one-line description of the program you are creating.

Field	Explanation
Program Name	Type the name of the RPG program that the CL program will call. This is a required field. Do not leave it blank.
	The name of the CL program generated will be the same as the RPG program name, but prefaced with a J instead of a P.
Create Program (Y/N)?	Indicate in this field whether you want to create the RPG program.
Screen or Report Name	Type the screen or report file name associated with the program. This field is only required for program type 2.
Select a Program Type (1-4)	Type one of the following in this field to indicate the type of program you are creating:
	1 – Standard Interactive Program
	2 – Standard Report Program with DREAM Writer
	3 – File Processor
	4 – File Processor with DREAM Writer
Action Code	Enter Y if you are creating a screen with an Action Code field.
	Enter N if you are not creating a screen with an Action Code field.
Selection Option	Enter Y if you are creating a screen with a selection option.
Report Detail Subheadings	Enter Y if you are creating a report with detail subheadings.
Report Total Subheadings	Enter Y if you are creating a report with total subheadings.
Report Totals	Enter Y if you are creating a report with totals.
Master File	Type the name of the data file to use for the program you are creating. This field is required for program types 2, 3, and 4.
Library Name	Type in the name of the library your master file is in.
Detail File (optional)	Type in the name of an optional secondary file from which you want to select data.
Library Name	Type in the name of the library your secondary file is in.
Source File Name	The member ID of the file used by the program.
Source Library Name	File and library that contains the file source.
Object Library Name	Enter the name of the object library where the program you are creating will reside. This is defaulted from the CASE Profiles.

26.3 Selecting Data Fields

The system displays key fields from each data file. You can select, deselect or resequence the fields that you want to use in your program.

The fields from the primary data file display first in the list, followed by the fields from the secondary data file, if you entered one.

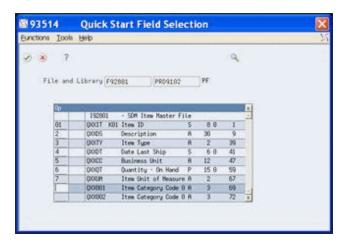
To select data fields

- 1. On Quick Start Field Selection, perform any of the following:
 - To select a field, enter 1 in the Option field to the left of the field name and click Enter.
 - To specify heading or subfile fields enter 1 or 2, respectively, in the column to the right of the selection and sequencing column.

This field only displays if the program you are creating is a transaction processor.

- To sequence a field, enter the sequence number in the Option field to the left of the fields you want to use in your program and click Enter.
- To add fields, enter the names of additional fields on the screen.
- Press (F3) to continue.
- The system prompts you perform one of the following:
 - Exit (F3) to exit the program.
 - Replace (F6) to continue to the next step in the process.

Figure 26-2 Quick Start Field Selection screen



26.4 Browsing or Updating the Screens or Reports (Optional)

At this point in the process, you can view or update the screens or reports you are create using the browse or update mode.

To browse or update screens or reports

On Quick Start Application Tool, enter 1 to browse or 2 to update.

To continue the steps to create a version, enter 8.

To exit the program, enter 9 and return to the Computer Assisted Programming (CAP) menu.



Figure 26–3 Quick Start Application Tool (Browse or Update) screen

26.5 Compiling the Screens or Report (Optional)

At this point in the process, you can compile the screens or report. Before you compile the program, you must complete this step.

To compile the screens or report

On Quick Start Application Tool, enter 3 to compile the screens or reports.

The system retrieves the object library for the compile from the CASE Profiles.

To continue the steps to create a version, enter 8.



Figure 26-4 Quick Start Application Tool (Compile) screen

26.6 Modifying Specifications (Optional)

At this point in the process, you can access the Program Generator Specifications screen to modify specifications.

To modify specifications

On Quick Start Application Tool, enter 2 to modify program specifications.

The Program Generator Specifications screen displays.

To continue the steps to create a version, enter 8.

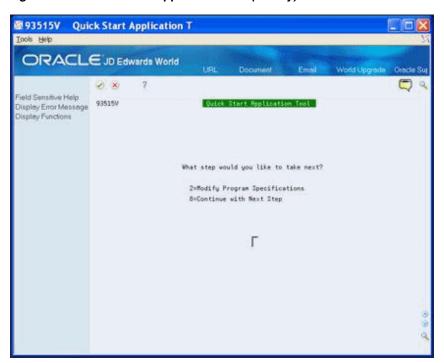


Figure 26–5 Quick Start Application Tool (Modify) screen

26.7 Submitting the Program to Compile (Optional)

Do not submit the program to compile until the screens or report successfully compile.

To submit the program to compile

On Quick Start Application Tool, enter 1 to compile the screens or reports.

To continue the steps to create a version, enter 8.



Figure 26–6 Quick Start Application Tool (Submit to Compile) screen

26.8 Updating the Data Dictionary and Glossary

You must enter the purpose of the program on the Data Item Glossary Revisions screen.

To update the data dictionary and glossary

1. On Quick Start Application Tool, click Enter to continue.



Figure 26-7 Quick Start Application Tool (Update Data Dictionary) screen

On Data Item Glossary Revisions, enter the description of the program's purpose that displays in the online help instructions.

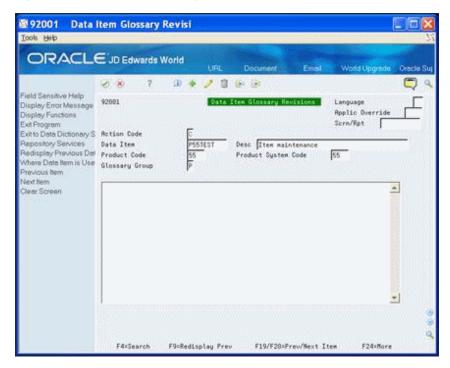
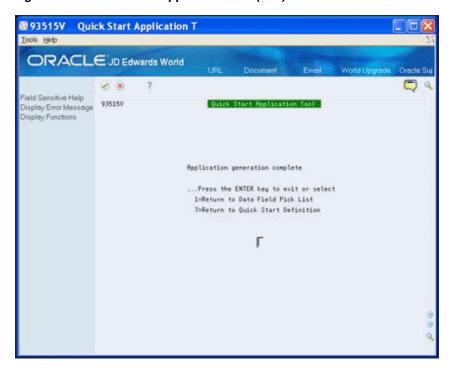


Figure 26-8 Data Item Glossary Revisions screen

- Click Add to add the program purpose statement.
- Click Exit (F3).
- On Quick Start Application Tool, perform one of the following:

- Click Enter to exit the program and return to the menu.
- Enter one of the following:
 - 1 to Return to the Data Field Pick List
 - 7 to Return to Quick Start Definition

Figure 26–9 Quick Start Application Tool (Exit) screen



Work with Action Diagramming

This chapter contains these topics:

- Section 27.1, "Building an Action Diagram,"
- Section 27.2, "Viewing an Action Diagram,"
- Section 27.3, "Accessing the Logic Translation Feature."

The Action Diagramming functionality allows you to produce a diagram which illustrates the different groupings of logic and the interrelationships of code within a program. The system generates the diagrams from the program source code. They provide easy access to more detailed information about the files, fields and programs in the code.

27.1 Building an Action Diagram

The Build Action Diagram program allows you to build the necessary cross reference items to produce the action diagram. Using DREAM Writer as the initial screen to the batch job, you can specify the programs for which you want to build an action diagram.

JD Edwards World includes sample Action Diagrams with the software but you must build the Action Diagram for all other programs. This is not an automatic function.

To build an action diagram

Navigation

From Action Diagramming (G9363), choose Build Action Diagrams

On Build Action Diagram, choose a version.

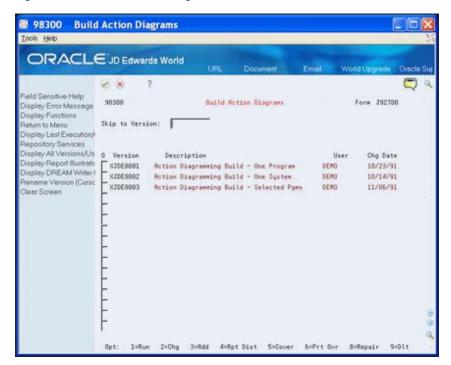


Figure 27-1 Build Action Diagrams screen

27.2 Viewing an Action Diagram

When you view an action diagram, you are viewing a graphical representation of the code's hierarchy within the program and how different subsets of code relate to other subsets of code. You can view the code for a subroutine from the program or exit to facilities that show more detail for fields, files, and programs.

To view an action diagram

Navigation

From Action Diagramming (G9363), choose Display Action Diagram

On Display Action Diagram, enter a program ID in the Program ID field to view an action diagram.

For example, enter P92801.

92705 Display Action Diagram Tools Help ORACLE JD Edwards World Display Error Message 92785 Displey Functions Ext Program Display File Usage Return to Previous Logic Coffware Versions Rep ile Field Description(O Data Cross Reference Can Text Forward (C can Text Backward (Skip to Start Group (Cu Skip to End Group (C) rint Action Diagram Dear Screen Program Flow Chart 5=View F12=Prev F16/F17=Scan F/B F21=Print F23=Flow Cht

Figure 27-2 Display Action Diagram screen

The logic groups for the program display.

Group Description	
Lvl/Sbr	Specifies the logic level and subroutine.
Program ID	The program name for the action diagram.
Scan	Allows the user to search for specific information.

The use of colors, arrows, indentation, and connecting vertical lines indicates the hierarchy and relationships of the code within the program.

Symbol	Description
===>	Signals the beginning or ending of a loop.
>	Signals an IF or WHEN statement or their associated end statement.
Blank	Labels are in reverse image.

27.2.1 Function Exits

Display File Usage (F10)

Choose Display File Usage (F10) to view the files in the file specifications of the program.

Return to Previous Logic Level (F12)

Choose Return to Previous Logic Level (F12) to return to the logic level immediately prior to the one that currently displays.

Scan Text Forward (F16)

Choose Scan Text Forward (F16) to enter a value in the Scan field and then scan forward through the code to locate the value.

Scan Text Backward (F17)

Choose Scan Text Backward (F17) to enter a value in the Scan field and then scan backward through the code to locate the value.

Skip to Start Group (F19)

Choose Skip to Start Group (F19) to skip to the beginning (start) of a section of code. The user places the cursor within the section of code and then chooses Skip to Start Group to go to the beginning of that section of code.

Skip to End Group (F20)

Choose Skip to End Group (F20) to skip to the end of a section of code. The user places the cursor within the section of code and then chooses Skip to End Group to go to the end of that section of code.

Print Action Diagram (F21)

Choose Print Action Diagram (F21) to obtain a printout of the action diagram.

Program Flowchart (F23)

Choose Program Flowchart (F23) to view and print, or view, or print a flowchart which illustrates the interaction of files and processes that relate to a single program. You can continue to view lower levels of detail as well.

27.2.2 Cursor Sensitive Function Exits

To access information that relates to fields, files, and programs appearing in the program code, you can use cursor sensitive function exits to access this information by placing the cursor at the beginning of the field, file, or program.

Software Versions Repository (F13)

Choose Software Versions Repository (F13) to access the Software Versions Repository.

File Field Description (F14)

Choose File Field Description (F14) to display the File Field Description screen.

Data Cross Reference (F15)

Choose Data Cross Reference (F15) to access the cross reference program.

Data Dictionary (F18)

Choose Data Dictionary (F18) to access the Data Dictionary program.

The following chart indicates which function exits access relevant information for the different elements.

Element	Function Exit	Description
Fields	Data Cross Reference (F15)	Displays all the programs that use the data item.

Element	Function Exit	Description
	Data Dictionary (F18	Displays the Data Dictionary definition for the data item.
Files	Display File Usage (F10)	Displays the files within the program.
	Software Versions Repository (F13)	Displays the Software Versions Repository record for the file.
	File Field Description (F14)	Displays the File Field Descriptions for the file.
	Data Cross Reference (F15)	Displays all the programs that use the file.
Programs	Software Versions Repository (F13)	Displays the Software Versions Repository record for the program.
	Data Cross Reference (F15)	Displays all the programs that launch the program.

27.2.3 Option Field Values

View (5)

Allows the user to view subroutine code whenever it indicates that the program is to execute a subroutine.

27.3 Accessing the Logic Translation Feature

The Logic Translation feature allows you to view how the Action Diagram feature translates the RPG code of a program into an Action Diagram.

To access the logic translation feature

Navigation

From Action Diagramming (G9363), choose Translation Table

The system displays the RPG operation in the first column and how it translates that operation within an action diagram in the second column.

92710 Translation Table Tools Help ORACLE JD Edwards World ? 即 🏕 🥖 📋 🗇 🗇 Field Sensitive Help Translation Table Display Error Message Display Functions Ext Program Clear Screen Action Type [Internal Operation Translate to Operation Add &1 to &2 giving &3 N0€0 And 81 equals 82 And 81 greater or equal 82 And 31 greater than \$2 And 31 less than or equal \$2 And 31 less than \$2 And 31 not equal \$2 Begin Subroutine 81 When 81 equals 82 Branch 83 When 81 greater or equal 82 Branch 83 When 81 greater than 82 Branch 83 When 81 less than or equal 82 Branch 83 When 81 less than 82 Branch 83 When 81 not equal 82 Branch 83 Execute program 82

Figure 27-3 Translation Table screen

Part VII

Source Code Inventory and Database

This part contains these chapters:

- Chapter 28, "Overview to Source Code Inventory and Database,"
- Chapter 29, "Understand Source Sequence,"
- Chapter 30, "Working with Program Types,"
- Chapter 31, "Work with Logic Modules,"
- Chapter 32, "Understand Directives,"
- Chapter 33, "Work with the Question and Answer System,"
- Chapter 34, "Create User Defined PDL."

Overview to Source Code Inventory and Database

This chapter contains these topics:

- Section 28.1, "Objectives,"
- Section 28.2, "About the Source Code Inventory and Database."

28.1 Objectives

- To understand the Source Sequence Line Number
- To create or modify program types
- To create or modify logic modules
- To understand directives
- To understand the Question and Answer system
- To create user defined PDL

28.2 About the Source Code Inventory and Database

Perform the following tasks:

- Understand the Source Sequence Line Number
- Create or modify program types
- Create or modify logic modules
- Understand directives
- Work with the Question and Answer system
- Create user defined PDL

Understand Source Sequence

This chapter contains these topics:

- Section 29.1, "Source Serial Numbers,"
- Section 29.2, "Source Sequence Line Structure,"
- Section 29.3, "Structure of the Serial Number."

When you use the program generator, it is important that you understand how the system manages the source code in the program. The topics in this chapter include the key elements that the system assigns.

29.1 Source Serial Numbers

When the program generator creates a new program, it assigns each line of source code within the program a twelve-digit serial number. If you regenerate a program after making changes, the program generator uses the serial numbers to integrate your changes, and then renumbers the entire source.

29.2 Source Sequence Line Structure

The source sequence line structure includes six elements:

Element	Description			
Primary Key	The primary key represents source code lines that come from a Primary Logic Module. The primary key begins in column 80.			
Secondary Key	The secondary key represents the source code lines that come from a Detail Logic module. The secondary key begins in column 90.			
Serial Number	The serial number is a 12-digit number the program generator assigns to each line of source code in a program. The serial number begins in column 100.			
User ID	When the program generator creates a program, it places the User ID of the program's creator within the source sequence line.			
SAR Number	When the program generator creates a program, it places the SAR Number, if available, within the source sequence line.			
Date Last Change	When the program generator creates a program, it places the date you add or change the code within the source sequence line.			

The following illustrates the parts of the source sequence line.

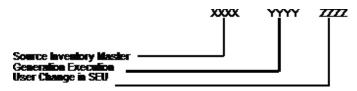
Figure 29–1 Parts of the Source Sequence Line

Primary :	Secondary Key	Serial Numbe	User	SAR Number	Last Change
S999-4	RR#BEN	00700070000	DOQUARLES	721561	000000
S999-4	rr#Ben	00700080000	DOQUARLES	721561	000000
S999-4	rr#ben	00700090000	DOQUARLES	721561	000000
S999-4	RR#BEN	00700100000	DOQUARLES	721561	000000
S999-4	rr#ben	00700110000	DOQUARLES	721561	000000
S999-4	RR#BEN	00700120000		721561	000000
S999-4	rr#Ben	0070013000	•	721561	000000

The Primary and Secondary keys and serial number make up a unique key for each line of code.

29.3 Structure of the Serial Number

Figure 29-2 Structure of the Serial Number



29.3.1 Source Inventory Master File (F93001) - XXXX

- Assigns numbers to the first sequence of the serial number.
- Increments by 10 to allow you to insert lines as the Program Generator Source Inventory Master file changes.
- Allows a maximum of 9999 lines.

29.3.2 Generation Execution - YYYY

- Assigns numbers when the system generates the program.
- Represents lines that are part of a detail logic module.
- Increments by 10 to allow you to insert lines.
- Allows a maximum of 9999 lines.

29.3.3 User Change in SEU - ZZZZ

- Represent lines of code that the user inserts via SEU.
- Allows a maximum of 9999 lines.

Working with Program Types

This chapter contains these topics:

- Section 30.1, "Reviewing Abbreviations for Program Types,"
- Section 30.2, "Reviewing Program Types Index,"
- Section 30.3, "Reviewing Program Types Cross Reference,"
- Section 30.4, "Creating or Modifying Program Types."

Within the program generator, the program type specifies the basic function or type of program that you create. For example, there are separate program types for basic interactive maintenance programs, programs which use subfiles, conversion programs, report programs, and batch update programs.

The system ties each program type to the question and answer process with the program generator.

- After answering a series of questions about the program to generate, the system determines the program type and assigns it to your program specifications.
- The program generator constructs the program using primary and detail logic modules within the program type.

JD Edwards World provides you with program types for the most common programs. You can create your own program types for your organization's needs.

30.1 Reviewing Abbreviations for Program Types

You can use the Index to review abbreviations for data that displays on the Create Modify screen.

Navigation

From Model Program Design Menu (G9361), under PROGRAM TYPES, choose Index



Figure 30–1 Index of Abbreviations for Program Types screen

30.2 Reviewing Program Types Index

You can use the Program Type Index program (P93900) to locate program types. You can access this from the Program Types Cross Reference screen, Index screen, as well as the Create/Modify screen.

30.2.1 Available Options

You can right click on any program type and choose one of the following options:

- Display Full Logic Access the Data Item Glossary Revisions screen
- Print Logic Class Source
 - Prints the generic source of the shell program without any of the specifics (detail logic modules).
 - Use this if you are creating your own program types and you want to review them.
- Display Logic Class Source
 - Displays the generic source of the shell program without any of the specifics (detail logic modules).
 - Use this if you are creating your own program types and you want to review them.
- Return Selected Program Type Retrieves the program type when the system accesses it from another program.
- Display Logic Cross Reference Displays the programs you create using this logic type.
- Revise Logic Class Displays a bill of materials list for the program type.

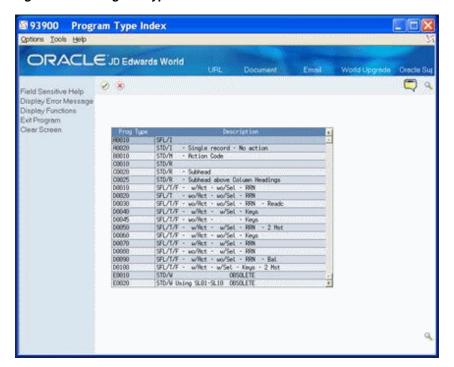


Figure 30-2 Program Type Index screen

30.3 Reviewing Program Types Cross Reference

The Program Types Cross Reference screen allows you to review additional information about program types.

Navigation

From Model Program Design Menu (G9361), under PROGRAM TYPES, choose **Cross Reference**

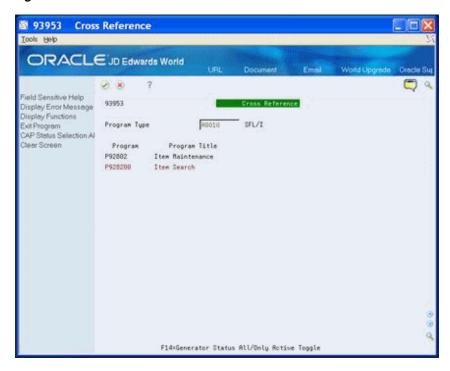


Figure 30–3 Cross Reference screen

Clone Status All/Only Active Toggle (F14)

You can choose CAP Status Selection All/Only Active (F14) to toggle back and forth between viewing all programs using the program type or only the programs with a CAP status of Y.

30.4 Creating or Modifying Program Types

As you create or modify program types, you should be aware of the following:

30.4.1 Program Type

It is the list of the segments of code the system requires to build this type of program. You might consider this a bill of materials list.

30.4.2 Primary Module

This is the main sections of code that the system uses to create the first level of program source.

30.4.3 Glossary K

The system uses these to document logic modules within a program type. When the system generates a program, it validates the field against the Data Dictionary, and adds the glossary for the key as documentation for the logic module.

To create or modify program types

Ensure you are of the alpha order requirement when creating new program types.

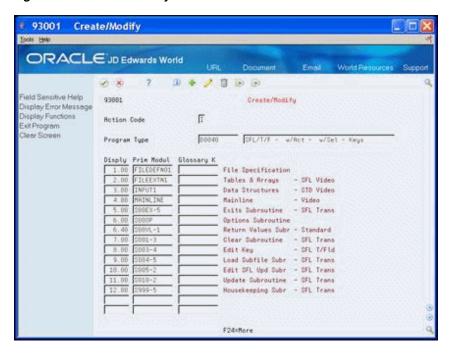
The following is an example using program type D0040.

Navigation

From Model Program Design Menu (G9361), under PROGRAM TYPES, choose Create/Modify

On Create/Modify, locate an existing program type.

Figure 30-4 Create/Modify screen



Work with Logic Modules

This chapter contains these topics:

- Section 31.1, "Primary Logic Modules,"
- Section 31.2, "Detail Logic Modules,"
- Section 31.3, "Generation Options,"
- Section 31.4, "Viewing the Logic Module Index,"
- Section 31.5, "Viewing Logic Module Cross Reference,"
- Section 31.6, "Viewing Logic Module Op Codes,"
- Section 31.7, "Maintaining the Logic Module File,"
- Section 31.8, "Creating or Modifying Logic Modules,"
- Section 31.9, "Creating or Modifying Formula Library Entry,"
- Section 31.10, "Copying or Moving Program Specifications,"
- Section 31.11, "Printing Program Generator Specifications,"
- Section 31.12, "Reviewing Source Modifications,"
- Section 31.13, "Using Program Generator Updates,"
- Section 31.14, "Using CASE Specifications Inquiry."

There are two types of logic modules:

- **Primary**
- Detail

31.1 Primary Logic Modules

Primary logic modules include:

- Main segments of code in the definition of a program type.
- Full sections of a program or subroutines within the program, normally.
- Functional directives to the generation program.

Each primary logic module includes code with a five character directive code. See Columns 1 through 5 in the Source Code Inventory Master file (F93001).

The JD Edwards World CASE software provides approximately 100 different primary logic modules. This includes many variations on mainline logic, field initialization,

update logic, housekeeping, and so forth. Use the Index for logic modules to become familiar with the various types of primary logic modules.

Primary logic modules contain the following:

- Program identification specifications
- Extension specifications
- Data structures
- Mainline calculations
- Default logic from data dictionary
- Subroutine calculations
- Update subroutine
- Housekeeping subroutine

31.2 Detail Logic Modules

Detail logic modules direct the final integration of the database, screen, or report specifications into the primary logic modules that make up the final program type.

Detail logic modules are usually functional or data field-related segments of code. Functional directives reference the detail logic modules which contain substitution directives to the generation program. A prefix of X indicates the system does not use the detail logic module in conjunction with a conditional directive. A prefix of Z indicates the system uses the detail logic module in conjunction with a conditional directive. See Chapter 32, "Understand Directives" for more information about directives.

31.3 Generation Options

Following are additional programs you can use on the Model Program Design Menu.

31.3.1 Help Instructions Edit/Build

You use this to access the Software Versions Repository to rebuild the Helps for a single program.

31.3.2 All Help Instructions

You use this to submit a job to regenerate the helps for all programs.

31.3.3 Global Program Regeneration

You use this to regenerate all programs that have a CAP Status of Y.

Caution: Use caution when you use this program.

Working with logic modules includes the following tasks:

- View the Logic Module Index
- View the Logic Module Cross Reference
- View Logic Module Op Codes

- Maintain the Logic Module File
- Create or modify Logic Modules
- Create or modify Formula Library Entry
- Copy or move program specifications
- Print Program Generator specifications
- Review source modifications
- Use Program Generator updates
- Use CASE specifications inquiry

31.4 Viewing the Logic Module Index

The system allows multiple logic modules for each subroutine. Depending on the type of program in which you use the subroutine, the same subroutine can appear differently.

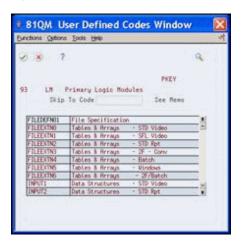
You can review the logic modules on the User Defined Codes window.

To view the logic module index

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose Index

Figure 31-1 User Defined Codes Window screen



31.5 Viewing Logic Module Cross Reference

The Logic Module Cross Reference allows you to determine which program types use a particular logic module.

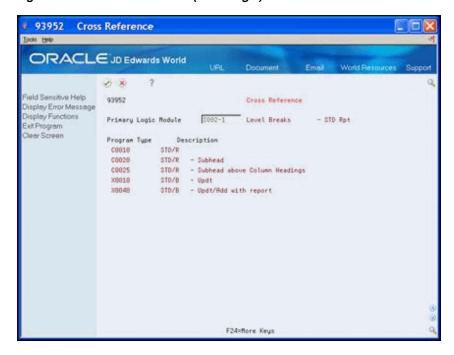
To view the logic module cross reference

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose **Cross Reference**

Enter a primary logic module name.

Figure 31-2 Cross Reference (View Logic) screen



31.6 Viewing Logic Module Op Codes

On the Op Codes screen, the:

- Left column lists the PDL op codes.
- Right column displays the x-module that the system launches to generate the source code.

If PDL does not generate source code, the Operation Code to Logic Module X-Ref file (F93108) might have been accidently cleared.

To view the logic module op codes

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose Op **Codes**

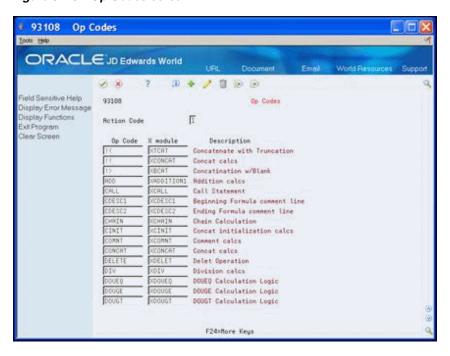


Figure 31–3 Op Codes screen

31.7 Maintaining the Logic Module File

The following programs do not appear on a menu and you must access these programs manually.

Caution: Use extreme caution when using these programs.

31.7.1 Resequence Logic Module

Use this program when you need to add several lines to a logic module and resequence the line numbers. If you add or change lines in a logic module, you must manually change or add the serial numbers for the logic module or run this program. The Resequence Master Source program (93998) launches a program to resequence an existing logic module.

Normally, you create and incorporate a new logic module into a new program type. You use the new program type and delete the old program type when there are no longer programs with that program type with a CAP status of Y.

CALL P93998 PARM (logic module name).

31.7.2 Remove Logic Module

You use this program when you no longer use a logic module and want to reduce the amount of source code in the F93001 file. The Remove Logic Module program (P93999) removes lines from F93001 and launches a program to remove an existing logic module.

You must ensure that there are no programs with a CAP status of Y that use a program type with this logic module.

CALL P93999 PARM(logic module name).

31.8 Creating or Modifying Logic Modules

The Create/Modify screen allows you to review only the logic module you want, otherwise all 12,000 lines of code display because the F93001 is a single member file.

You can choose Field Sensitive Help to access a list of logic modules, UDC 93/LM.

When the system accesses the code, it performs three steps:

- Creates a work file in QTEMP/F93001WRK.
- Adds a member to F93001WRK.
- Clears the member in F93001WRK.

You can exit the code without saving your changes.

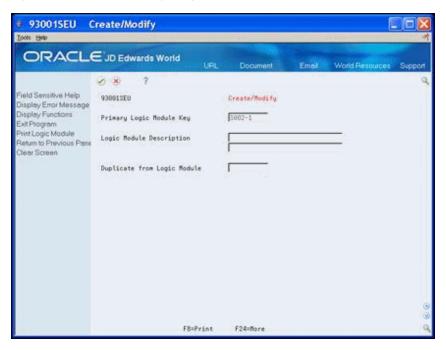
To create or modify logic modules

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose Create/Modify

1. Enter a logic module name.

Figure 31–4 Create/Modify (Logic Modules) screen



Create or change the appropriate lines of code

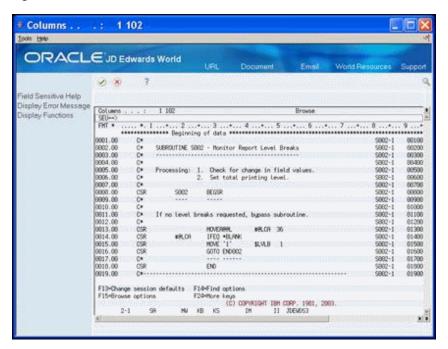


Figure 31-5 Lines of Code screen

31.9 Creating or Modifying Formula Library Entry

When you choose this menu selection, the system preloads the screen with the keys for entering a formula.

Alternatively, you also access this screen through the Detailed Programming Facility to enter PDL.

To create or modify the formula library entry

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose Formula Library Entry

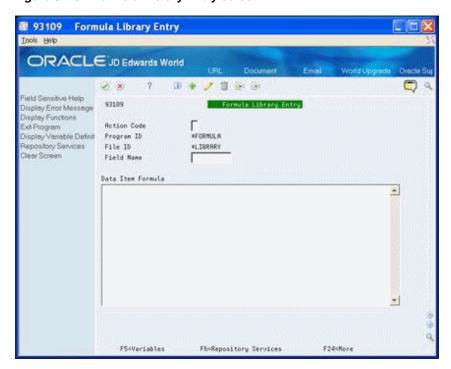


Figure 31–6 Formula Library Entry screen

31.10 Copying or Moving Program Specifications

The Parameter Copy/Move program allows you to copy the following from one library to another or from one program ID to another:

- **Program Generator specifications**
- Data dictionary glossary (program purpose)
- DREAM Writer processing options

Alternatively, you can enter 3 in the Option field on Software Versions Repository to copy Program Generator specifications within a library.

To copy or move program specifications

Navigation

From Model Program Design Menu (G9361), under OTHER TOOLS, choose Parameter Copy/Move

On Parameter Copy/Move complete the following fields:

- **Program Generator Specs**
- Data Dictionary
- **Processing Option**
- From Program ID
- To Program ID

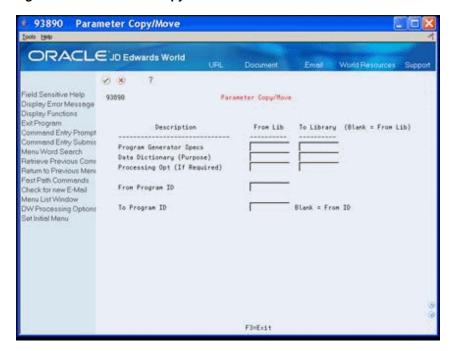


Figure 31–7 Parameter Copy/Move screen

31.11 Printing Program Generator Specifications

Use the Print Program Specifications program to print the program specifications. You must use a logical file.

If the print job ends abnormally, review the Additional Parameters screen of the DREAM Writer and ensure that the File Output Type field is set to a Logical File and not Open Query.

To print program generator specifications

Navigation

From Model Program Design Menu (G9361), under OTHER TOOLS, choose Print **Program Specifications**

Copy the appropriate version and change it to print the version of the specifications you want.

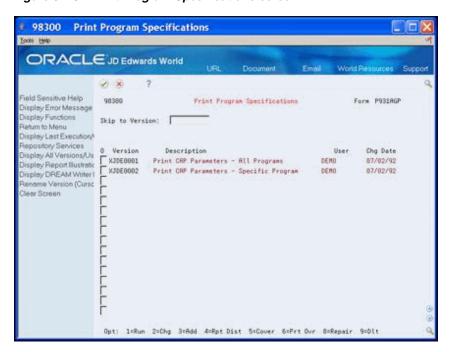


Figure 31–8 Print Program Specifications screen

31.12 Reviewing Source Modifications

The Review Source Modifications program displays the source code that a user adds manually through the Source Entry Utility. You view the Pxxxxx member in the Additional Help/Modifications Master file (F93002).

The lines of code are the result of the MPxxxxx job that runs and compares the before image of the source code with the source code after the user makes changes and stores the code in the Pxxxxx member in the F93002.

To review source modifications

Navigation

From Model Program Design Menu (G9361), under OTHER TOOLS, choose Review **Source Modifications**

Alternatively, you can enter 30 in the Option field on Software Versions Repository to access Review Source Modifications screen.

- On the Review Source Modifications screen, locate the program.
- Enter 30 in the Option field to view source code modifications.

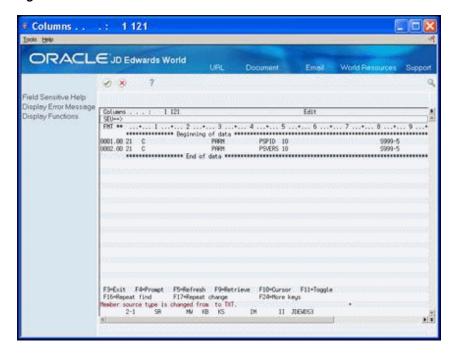


Figure 31–9 Review Source Code Modifications screen

31.13 Using Program Generator Updates

The both of the Generator Updates merge JD Edwards World updates for the Program Generator.

The system uses these programs during a PTF install.

To use program generator updates

Navigation

From Model Program Design Menu (G9361), choose Generator Updates From Generator Updates (G9366), choose the appropriate Compare/Update

31.14 Using CASE Specifications Inquiry

The CASE Specifications Inquiry allows you to view the programs you design using the JD Edwards World CASE Tools. You can modify and delete CASE Specifications using this utility as well as access the source code in the Software Versions Repository.

To use CASE specifications inquiry

Navigation

From Model Program Design Menu (G9361), under OTHER TOOLS, choose Case **Specifications Inquiry**

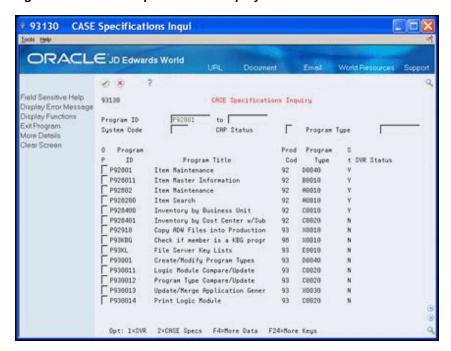
- On CASE Specifications Inquiry, complete any of the following fields:
 - Program ID
 - System Code
 - **CAP Status**

Program Type

The system displays the records that meet your search criteria.

- Complete the following field:
 - Option

Figure 31–10 CASE Specifications Inquiry screen



Understand Directives

This chapter contains these topics:

- Section 32.1, "Functional Directives,"
- Section 32.2, "Substitution Directives,"
- Section 32.3, "Exception Directives,"
- Section 32.4, "Conditional Directives."

Directives are in the logic modules and instruct the program generator what type of action to take when constructing source code. They use the first five columns of the RPG statement.

There are several types of directives, including:

- **Functional Directives**
- Substitution Directives
- **Exception Directives**
- Conditional Directives

JD Edwards World supplies all directives and you cannot create your own directives.

32.1 Functional Directives

Functional directives:

- Control major functions within a program.
- Provide the initiation point for creating database specific logic and screen or report file control logic.
- Initiate the inclusion of copy modules into the source code.
- Seize detail logic modules for inclusion.

Functional directives are only found within primary logic modules and cannot reside in a detail logic module.

Following are the functional directives JD Edwards World includes with the software:

Directive Code	Detail Logic Module	Source Created	Functional Directive
*ACTN	None	S999	Load action code lock out array
*ATOT	XADDTOT1	S010	Accumulate report total logic

*DPARM XFIELDVAL S998 Retrieve all Data Dictionary values for videos *DPRMS XFIELDVL2 S998 Retrieve Data Dictionary values for detail subheading reports *DPRMR XFIELDVAL S998 Retrieve Data Dictionary values for total subheading reports DSPF None Various Variable name substitution for display file(s) fields	Directive Code	Detail Logic Module	Source Created	Functional Directive
*CLRN None S001 Clear user requested fields CLRY None S001 Clear all data fields for next transaction CLSFL None S003 Clear all subfile fields COPY XCOPY-SUB Various RPGIII copy function for common subroutines CTOT XCLRTOT1 S010 Clear report totals *DATES XDSDATE I Spec Data structures for Gregorian dates (not using record buffer) *DATER None I Spec Data structures for Gregorian dates in the record buffer #BUFIN DESC None F Spec File or program description *DPARM XFIELDVAL S998 Retrieve all Data Dictionary values for videos *DPRMS XFIELDVL2 S998 Retrieve Data Dictionary values for detail subheading reports *DPRMR XFIELDVAL S998 Retrieve Data Dictionary values for total subheading reports DSPF None Various Variable name substitution for display file(s) fields DSPI S Display logic for primary video fields XDSPFLD1 004 Format Alpha field for output XDSPFLD2 S004 Format Gregorian Date for output XDSPFLD3 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from Edit from VTX XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format VC0 field from F0005 XDSPFLD8 S004 Format VC0 field from foutput XDSPFLD5 S004 Format VC0 field from Georgian Date for output XDSPFLD5 S004 Format VC0 field from F0005 XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format VC0 field from Output XDSPFLD8 S004 Format VC0 field from Output XDSPFLD9 S004 Format VC0 field from Output XDSPFLD5 S004 Format VC0 field from Output XDSPFLD6 S004 Format VC0 field from Output XDSPFLD7 S004 Format VC0 field from Output XDSPFLD8 S004 Format VC0 field from Output XDSPFLD9 S004 Format VC0 field from Output XDSPFLD6 S004 Format VC0 field from Output XDSPFLD7 S004 Format VC0 field from Output XDSPFLD8 S004 Format VC0 field from Output XDSPFLD9 S004 Format VC0 field from Output XDSPFLD	AUTHR	None	F spec	Program author
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XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1 DSP2 Display logic for primary video fields XDSPFLD1 S004 Format Alpha field for output XDSPFLD2 S004 Format Gregorian Date for output XDSPFLD3 S004 Format Julian Date for output XDSPFLD4 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD5	S004	Format VC0 field from designated description
XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1 DSP2 Display logic for primary video fields XDSPFLD1 S004 Format Alpha field for output XDSPFLD2 S004 Format Gregorian Date for output XDSPFLD3 S004 Format Julian Date for output XDSPFLD4 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1				file (field details)
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XDSPFLD1 S004 Format Alpha field for output XDSPFLD2 S004 Format Gregorian Date for output XDSPFLD3 S004 Format Julian Date for output XDSPFLD4 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD8	S004	Repeat of XDSPFLD1
XDSPFLD2 S004 Format Gregorian Date for output XDSPFLD3 S004 Format Julian Date for output XDSPFLD4 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1	DSP2			Display logic for primary video fields
XDSPFLD3 S004 Format Julian Date for output XDSPFLD4 S004 Format VC0 field from VTX XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD1	S004	Format Alpha field for output
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XDSPFLD5 S004 Format VC0 field from designated description file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD3	S004	Format Julian Date for output
file (field details) XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD4	S004	Format VC0 field from VTX
XDSPFLD6 S004 Format VC0 field from F0005 XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD5	S004	Format VC0 field from designated description
XDSPFLD7 S004 Format Alpha 3 or 28 XDSPFLD8 S004 Repeat of XDSPFLD1				file (field details)
XDSPFLD8 S004 Repeat of XDSPFLD1		XDSPFLD6	S004	Format VC0 field from F0005
		XDSPFLD7	S004	Format Alpha 3 or 28
*EMK XLOADEMK S999 Load user defined error messages		XDSPFLD8	S004	Repeat of XDSPFLD1
	*EMK	XLOADEMK	S999	Load user defined error messages

Directive Code	Detail Logic Module	Source Created	Functional Directive
ENTRY	X*ENTRYP	Various	Load program execution passed parameters
	X*ENTRYM		
*EXITC	XEXIT-CMD0	S00EX	Function key exit execution logic
	XEXIT-CMD1		
*EXITS	XEXIT-SEL0	S00OP	Selection exit execution logic
*EXITW	XEXIT-SEL0	S000P	Selection exit execution logic
*FIELD			Active Data Dictionary field validation logic
	XFIELDEDT1	S005	Data Dictionary alpha edit
	XFIELDEDT2	S005	Validation n=Master - Alpha
	XFIELDEDT3	S005	Gregorian edit
	XFIELDEDT4	S005	Julian edit
	XFIELDEDT5	S005	Data Dictionary numeric edit
	XFIELDEDT6	S005	Alpha field size 10
	XFIELDEDT7	S005	User defined code edit
	XFIELDEDT8	S005	No dictionary
	XFIELDEDT9	S005	Validation n = Master - Numeric
	XFIELDEDTA		Account ID
	XFIELDEDIA	S005	Cost center edit
	XFIELDEDTE	S005	Numeric field size 7
	XFIELDEDTR	S005	Right adjust
	XFIELDEDTS	S005	Validation = Master - Alpha
	XFIELDEDTT	S005	Validation = Master - Alpha Rt Adj
	XFIELDEDTU		Validation = Master - Numeric
FILES	None	F spec	Program file descriptions
*FLDxx			Active Data Dictionary field validation for primary data
	XFIELDEDT1	S005	Data Dictionary alpha edit
	XFIELDEDT2	S005	Validation n=Master - Alpha
	XFIELDEDT3	S005	Gregorian edit
	XFIELDEDT4	S005	Julian edit
	XFIELDEDT5	S005	·
	XFIELDEDT6	S005	Data Dictionary numeric edit
	XFIELDEDT7	S005	Alpha field size 10
	XFIELDEDT8	S005	User defined code edit
	XFIELDEDT9	S005	No dictionary
	XFIELDEDTA	S005	Validation n = Master - Numeric
	XFIELDEDTC	S005	Account ID
	XFIELDEDTE	S005	Cost center edit
	XFIELDEDTR	S005	Numeric field size 7
	XFIELDEDTS	S005	Right adjust
	XFIELDEDTT	S005	Validation = Master - Alpha
	XFIELDEDTU	S005	Validation = Master - Alpha Rt Adj
			Validation = Master - Numeric

Directive Code	Detail Logic Module	Source Created	Functional Directive
INFDS			File information data structures, if specified
	XINFDS1	Ispec	Standard database file information data structure. The field prefix is incremented from \$1 to \$x where x = number of files
	XINFDS2	I spec	OBSOLETE. Use SRVFDS.
KEYI			Load master file key fields for inquiry programs.
	XFIELDLD1	S003	Load video input - Alpha
	XFIELDLD2	S003	Load video input - Numeric
	XFIELDLD3	S003	Load video input - Cost Center
	XFIELDLD4	S003	Load video input - Julian Date
	XFIELDLD5	S003	Load video input - Gregorian Date
KEYS			Load master file key fields in subfile format.
	XFIELDLD1	S003	Load video input - Alpha
	XFIELDLD2	S003	Load video input - Numeric
	XFIELDLD3	S003	Load video input - Cost Center
	XFIELDLD4	S003	Load video input - Julian Date
	XFIELDLD5	S003	Load video input - Gregorian Date
	XNEXT-NBR	S003	Load video input - Next Numbering
KEYS2			Load master file key fields in primary video format
	XFIELDLD1	S005	Load video input - Alpha
	XFIELDLD2	S005	Load video input - Numeric
	XFIELDLD3	S005	Load video input - Cost Center
	XFIELDLD4	S005	Load video input - Julian Date
	XFIELDLD5	S005	Load video input - Gregorian Date
	XNEXT-NBR	S005	Load video input - Next Numbering
KLIST	XKEYLIST	S999	Create data file key list
*LVLS	XSAVVAL1	Save report level break data	
MF	None	Various	Variable name substitution for master database files
*MCUxx	None	S003 S004 S00EX	Business Unit security logic where xx = master field designation 1 thru 9
*OPEN	XFILEOPN1	S999	Open report program data files
ОРТЕ	None	S005	Subfile processing condition test based on mandatory entry fields in subfile format
*OTOT	XPRTTOT1	S010	Print all report level totals
PDL	None	Various	User defined entry point
*RKYxx	None	S999	Load softcoding record key for reports where xx = master file designation 1 thru 9

Directive Code	Detail Logic Module	Source Created	Functional Directive
RPTD			Format data for report detail format
	XDSPFLD1	S004	Format Alpha field for output
	XDSPFLD2	S004	Format Gregorian Date for output
	XDSPFLD3	S004	Format Julian Date for output
	XDSPFLD4	S004	Format VC0 field from VTX
	XDSPFLD5	S004	Format VC0 field from description file (field details)
	XDSPFLD6	S004	Format VC0 field from F0005
	XDSPFLD7	S004	Format Alpha 3 or 28
	XDSPFLD8	S004	Repeat of XDSPFLD1
RPTH			Format data for report heading format
	XDSPFLD1	S004	Format Alpha field for output
	XDSPFLD2	S004	Format Gregorian Date for output
	XDSPFLD3	S004	Format Julian Date for output
	XDSPFLD4	S004	Format VC0 field from VTX
	XDSPFLD5	S004	Format VC0 field from description file (field details)
	XDSPFLD6	S004	Format VC0 field from F0005
	XDSPFLD7	S004	Format Alpha 3 or 28
	XDSPFLD8	S004	Repeat of XDSPFLD1
*RPTT			Format data for report total format
	XDSPFLD1	S004	Format Alpha field for output
	XDSPFLD2	S004	Format Gregorian Date for output
	XDSPFLD3	S004	Format Julian Date for output
	XDSPFLD4	S004	Format VC0 field from VTX
	XDSPFLD5	S004	Format VC0 field from description file (field details)
	XDSPFLD6	S004	Format VC0 field from F0005
	XDSPFLD7	S004	Format Alpha 3 or 28
	XDSPFLD8	S004	Repeat of XDSPFLD1
*RTA	XTOTARRY	E spec	Load totaling arrays
*RTS	None	I spec	Report softcoding array
*RTX	None	I spec	Report softcoding text fields
*RTXI	XVTIDX	S999	Set maximum VTX index to use

Directive Code	Detail Logic Module	Source Created	Functional Directive
*SFFLD			Active Data Dictionary data field validation
			for subfile fields.
	XFIELDEDT1	S005	Data Dictionary alpha edit
	XFIELDEDT2	S005	Validation n = Master - Alpha
	XFIELDEDT3	S005	Gregorian edit
	XFIELDEDT4	S005	Julian edit
	XFIELDEDT5	S005	Data Dictionary numeric edit
	XFIELDEDT6	S005	Alpha field size 10
	XFIELDEDT7	S005	User defined code edit
	XFIELDEDT8	S005	No dictionary
	XFIELDEDT9	S005	Validation n = Master - Numeric
	XFIELDEDTA	S005	Account ID
	XFIELDEDTC	S005	Cost center edit
	XFIELDEDTE	S005	Numeric field size 7
	XFIELDEDTR	S005	Right adjust
	XFIELDEDTS	S005	Validation = Master - Alpha
	XFIELDEDTT	S005	Validation = Master - Alpha Rt Adj
	XFIELDEDTU	S005	Validation = Master- Numeric
SLDxx			Active Data Dictionary data field validation
			for subfile data fields. Where $xx =$ specified
			master file 1 thru 9.
	XFIELDEDT1	S005	Data Dictionary alpha edit
	XFIELDEDT2	S005	Validation n = Master - Alpha
	XFIELDEDT3	S005	Gregorian edit
	XFIELDEDT4	S005	Julian edit
	XFIELDEDT5	S005	Data Dictionary numeric edit
	XFIELDEDT6	S005	Alpha field size 10
	XFIELDEDT7	S005	User defined code edit
	XFIELDEDT8	S005	No dictionary
	XFIELDEDT9	S005	Validation n = Master - Numeric
	XFIELDEDTA	S005	Account ID
	XFIELDEDTC	S005	Cost center edit
	XFIELDEDTC	S005	Numeric field size 7
	XFIELDEDTR	S005	Right adjust
	XFIELDEDTS	S005	Validation = Master - Alpha
	XFIELDEDTT	S005	Validation = Master - Alpha Rt Adj
	XFIELDEDTT	S005	Validation = Master- Numeric
*S00VL			
	None None	I spec	Cursor Control, F1
TITLE		H spec	Program title
JT TT /3 '	None	S999	Load softcoding record key for display files
*VKYxx	None		where $xx=$ display file designation $1 - 9$.

Directive Code	Detail Logic Module	Source Created	Functional Directive
*VTX	None	I spec	Update softcoding text field ending positions based upon size definition in display file
*VTXI	XVTXIDX	S999	Set maximum VTX index used

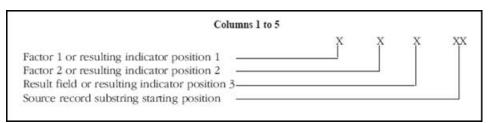
^{*} Automatically include JD Edwards World standards, which are beyond normal requirements.

32.2 Substitution Directives

Substitution directives:

- Control the translation of symbolic names to the actual data field names the system requires for an individual line of source code.
- Substitute information within a line of code.
 - If the system replaces a field, the field it replaces begins with an & (ampersand).
 - If the substitution is positional, this directive informs the program generator where to position the substitution on a line of code.

Figure 32–1 Substitution Directives, Columns 1 to 5



Following are the substitution directives JD Edwards World includes with the software:

Directive	Column Allowed	Column Allowed	Column Allowed	Column Allowed	Function
	1	2	3	45	
@	х	х	х	х	Four character Data Dictionary name
#	х				Primary parameter that passes for *ENTRY
A	х	х	х		Highest VTX field.
В					Unused at this time.

Directive	Column Allowed	Column Allowed	Column Allowed	Column Allowed	Function
С	х				Function key exit indicator test
D	х			х	Descriptions for fields, files, and copy modules
E		х			Error message key
F		х			Validation file name
G		х			User defined calculation logic result field name
Н		х			Descriptive display file name
I	х	х	х		Display field error condition attribute indicator
J	х	х	х	х	Data file names
K	х	х	х		Descriptive display file key field name
L	х				Data file key list name and optional file/format name
M	х				File information data structure name
N	х	Х	х		Full data field name (write to)
O	х			Х	Common subroutine name
P		х			Function key/selection exit program to execute
Q				х	Field name to receive description value

Directive	Column Allowed	Column Allowed	Column Allowed	Column Allowed	Function
R				х	Field name to receive key value
S			х		Selection exit value test
Т		х			Function key/selection exit
U	х				File information data structure subfield prefix
V	Х	х	х		Source of data (Read From) field name
W			х		Data file key list key field name
X			х	х	Error message array index
Y			х		Function key/selection exit parameter field name
Z			х		Numeric field size definition (right adj alpha)
0		х			Gregorian date Data Structure numeric 6 byte date
1	х				Gregorian date Data Structure numeric 2 byte month
2	х				Gregorian date Data Structure numeric 2 byte day
3	х				Gregorian date Data Structure numeric 2 byte year
4	Х	х	Х		Parameter 1 from *PROC calculations

Directive	Column Allowed	Column Allowed	Column Allowed	Column Allowed	Function
5	Х	х	х		Parameter 2 from *PROC calculations
6	х	х	х		Parameter 3 from *PROC calculations
7	Х	х	х		Parameter 4 from *PROC calculations
8	х	х	х		Parameter 5 from *PROC calculations

32.3 Exception Directives

Exception directives:

- Provide unusual option definition to the program generation process.
- Combine two other types of directives. For example:

DSPF &01FILE

Combines a functional directive (DSPF) with a substitution directive (&01FILE), so it is an exception directive.

Example:

You create a line of code for the READ Master file and then substitute the Master file name.

Most exception directives are substitution directives but are out of the normal syntax substitution directives use.

Following are the exception directives JD Edwards World includes with the software:

Factor 1	Factor 2	Result	Keyword	Function
	х		&xxFILE	Master/video/re port file name
	х		&xx(FILE)	File name in single quote marks
	Х		&xxFORMAT	Master/video format name
	х		&xxFORMAT1	Subfile line 24 format name
	х		&xxFORMATC	Subfile control record format name
	х		&xxFORMATS	Subfile record format name
x	х		&xxKEYFLD	Master file primary key field name

Factor 1	Factor 2	Result	Keyword	Function
x	х		&xxPGCTL	Number of subfile records in 1 page
x			%	Factor 1 intentionally left blank
x	х	Х	=	User defined calculation logic result

32.4 Conditional Directives

Conditional directives:

- Are the most flexible and most powerful directives.
- Verify specific conditions exist before determining if the system must perform any action.
- Use positions 1 to 5 to provide directive initiation and use Factor 1, Factor 2, and the Result field to complete the directive definition.

Subroutine S010-11 includes examples of conditional directives. For example:

If SFSELC exists, include code for selection exits.

You can combine conditional directives.

Following are the conditional directives JD Edwards World includes with the software:

Description
+ Include detail logic module if true
- Include detail logic module if false
FLDN Test existence of data field
DTAI Test existence of data item
FILE Test existence of file
FMT Test existence of file
Name of field, item, file or format to test. Can also contain *ANYx for file test which you can use to test for types of files in a program where x might optionally designate number of files.
DSPF Display file
PF Physical file only
LF Logical file only
PRTF Printer file only
DB Database file
Name of detail logic module to include into source code. Might also use *AND to produce compound conditions
@ Any input file
M Master input file with M in file specifications
1-9 Master input file with 1 - 9 in field specifications

Position/Factor/Result	Description
Result Field Pos 2	@ Any output file
Result Field Pos 3	@ Any update file
	M Master update file with M in file specifications
	1-9 Master update file with 1 - 9 in field specifications
Result Field Pos 4	@ Any add file

Work with the Question and Answer System

This chapter contains these topics:

- Section 33.1, "About Simple Question & Answer,"
- Section 33.2, "Reviewing Questions in a Master Dialogue,"
- Section 33.3, "Adding New Q & A Dialogue,"
- Section 33.4, "Working with an Existing Dialogue."

The program generator uses JD Edwards World Question and Answer system as a method of determining the appropriate program type. Based on the answers to certain questions, the system selects a program type for you.

You can create your own questions and answers to produce your own custom program type. You can also modify the questions, known as a dialogue, the program generator uses through this feature.

Navigation

From Model Program Design Menu (G9361), choose Maintain Q/A From World CASE Q & A Menu (G9364), choose Simple Question and Answer

33.1 About Simple Question & Answer

The Simple Question & Answer screen, from which you begin all Question & Answer tasks, includes the following three fields.

Option	Description
Simple Question and Answer	Access the Question Entry screen.
Add New Q & A Dialogue	Access the Dialogue Descriptions screen.
Update Existing Q & A Dialogue	Access the Dialogue Lists screen.

33.2 Reviewing Questions in a Master Dialogue

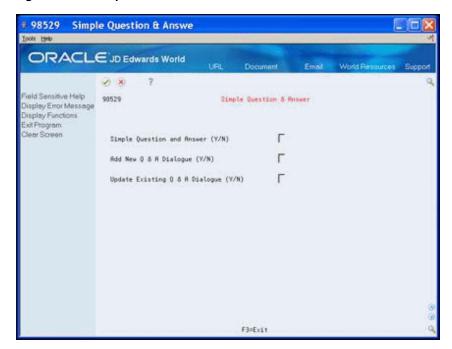
You choose Display Next Question (F19) and Display Previous Question (F20) to review all of the master questions. Additionally, you can make changes to the master question that displays on the Question Entry screen.

To review questions in a master dialogue

On Simple Question and Answer, enter Y in the following field:

Simple Question and Answer

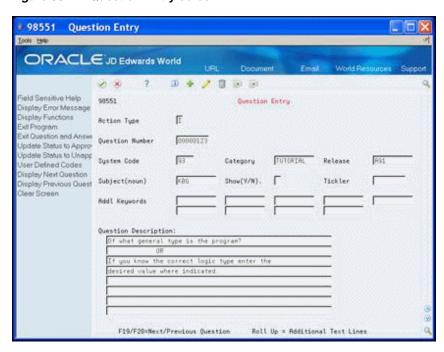
Figure 33-1 Simple Question & Answer screen



- On Question Entry, complete the following field:
 - Question Number

The question detail displays.

Figure 33-2 Question Entry screen



To review the answers to the master question Click Change.

33.3 Adding New Q & A Dialogue

You can create your own questions and answers by completing the Add New Q & A Dialogue field.

The dialogue the CASE tool uses to determine the program type is Primary Key *Default, Data Item LC.

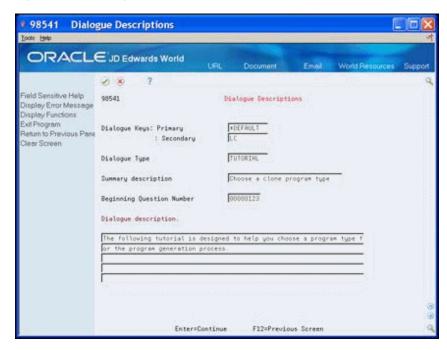
To add new Q&A dialogue

- On Simple Question & Answer, enter Y in the following field:
 - Add New Q & A Dialogue

The Dialogue Descriptions screen displays.

- **2.** Complete the following fields:
 - Dialogue Keys: Primary
 - Dialogue Keys: Secondary
 - Dialogue Type
 - Summary description
 - **Beginning Question Number**
 - Dialogue description

Figure 33-3 Dialogue Descriptions screen

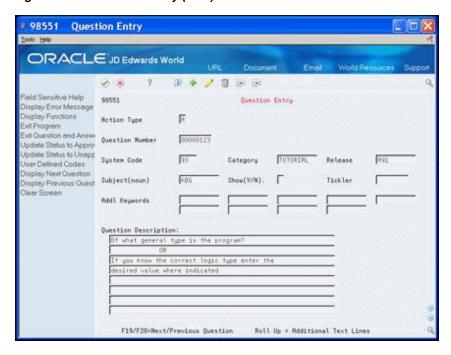


The first Question Entry screen displays.

- Complete the following fields:
 - **Question Number**
 - System Code
 - Category

- Release
- Subject
- Show
- Tickler
- **Question Description**
- Complete the following field to assist in future searches for this question:
 - Additional Keywords

Figure 33-4 Question Entry (New) screen



The Answer Entry screen displays.

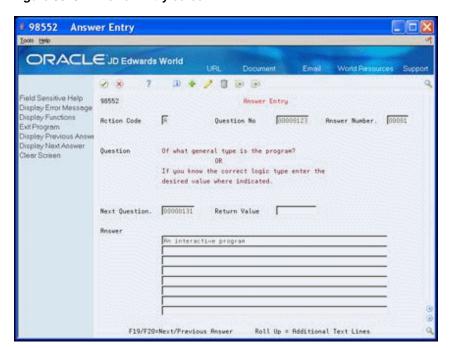


Figure 33-5 Answer Entry screen

- Complete the following fields:
 - **Question Number**
 - Answer Number
 - **Next Question**
 - Answer
- **6.** Optionally, complete the Return Value field.

The Return Value field can contain a member name, or *PROMPT. *PROMPT lets the user manually complete the Return Value field.

The following screen illustrates the use of the Return Value field. The return value is the program type for an interactive window program. In this case, there is no next question. The dialogue ends after the system enters the value E0010.

When you click Add the value in the Next Question field changes. There is no value in the Return Value field. For any question, there is either a value in the Return Value field or the Next Question field.

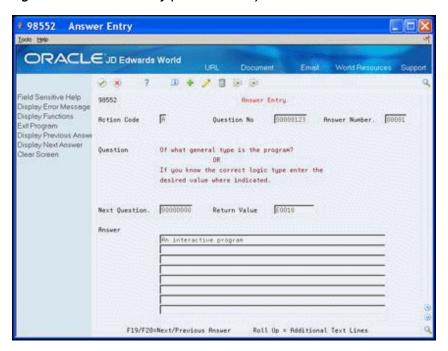


Figure 33-6 Answer Entry (Next Question) screen

For an existing question and answer, you choose Display Next Question (F19) and Display Previous Question (F20) to review all other possible answers for this question.

- **7.** To create a second answer to the question, click Enter.
 - The screen clears.
- **8.** Enter the number of the next answer in the following field:
 - Answer Number
- **9.** Repeat the previous steps as necessary to enter the next question and answer.
- **10.** To define the next question, click Exit to return to the Question Entry screen.
- 11. Repeat the previous steps as necessary to enter questions and answers.
- **12.** Click Exit until the Simple Question & Answer screen displays.

33.4 Working with an Existing Dialogue

You can perform the following tasks using the Update Existing Q & A Dialogue feature:

- To review a dialogue flow
- To change a dialogue
- To copy a dialogue
- To rename a dialogue
- To run a dialogue
- To delete a dialogue
- To run a quiz

To perform these tasks, choose Update Existing Q & A Dialogue on the Simple Question and Answer screen to access the Dialogue Lists screen.

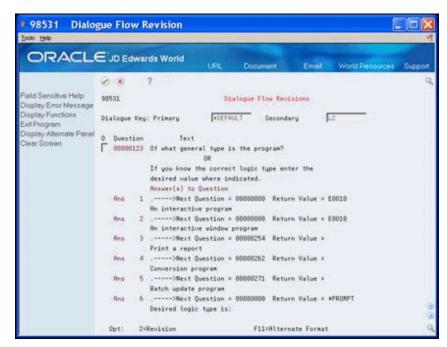
On Dialogue Lists, you can use the following values in the Option field:

- 2 Change the questions and answers for the Dialogue
- 3 Copy one dialogue to another dialogue
- 5 Run the Q & A. You can specify the number of responses to allow.
- 6 Flow displays the flow of the Q&A and how one question leads to another. You can access Q&A Revisions from the flow.
- 7 Rename
- 9 Delete
- 11 Take a quiz from this screen

To review a dialogue flow

On Dialogue Lists, enter 6 in the Option field. The Dialogue Flow Revisions screen displays.

Figure 33-7 Dialogue Flow Revision screen



Choose Alternate Format (F11) to view the Alternate Format.

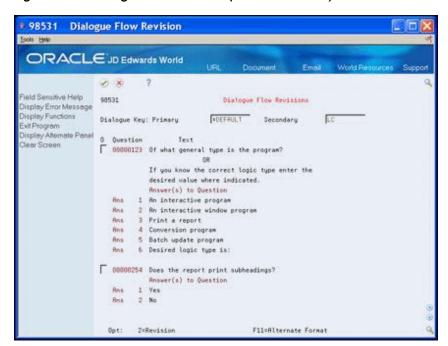


Figure 33-8 Dialogue Flow Revision (Alternate Format) screen

To change a dialogue

1. On Dialogue Lists, enter 2 in the Option field next to the dialogue you want to change.

The Question Entry screen displays.

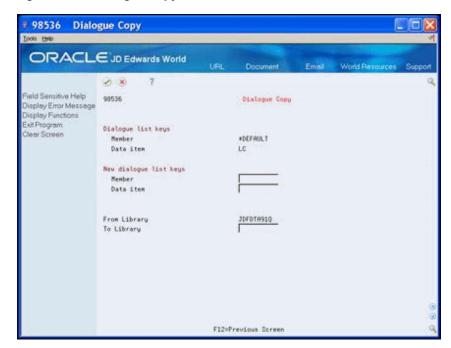
- Click Change.
- Make the changes to the questions and answers.

To copy a dialogue

1. On Dialogue Lists, enter 3 in the Option field next to the dialogue you want to copy.

The Dialogue Copy screen displays.

Figure 33-9 Dialogue Copy screen



- Enter the name of the new dialogue list keys (primary key) in the following field:
 - Member
- 3. Enter the name of the new dialogue list keys (secondary key) in the following field:
 - Data item
- Enter the name in which the new dialogue resides in the following field:
 - To Library

The system copies the dialogue.

To rename a dialogue

1. On Dialogue Lists, enter 3 in the Option field next to the dialogue you want to rename.

The Dialogue Copy screen displays.

98536 Dialogue Copy Esola tinto ORACLE JD Edwards World Dislogue Copy Display Error Message Display Functions Exit Program Clear Screen Dialogue list keys *DEFAULT Menber Data item New dialogue list keys Benber Data item JDFDTR91Q From Library To Library F12=Previous Screen

Figure 33-10 Dialogue Copy (Rename) screen

- Enter the name of the primary key in the following field:
 - Member
- **3.** Enter the name of the secondary key in the following field:
 - Data item
- **4.** Enter the name in which the new dialogue resides in the following field:
 - To Library

The system renames the dialogue.

To run a dialogue

1. On Dialogue Lists, enter 5 in the Option field next to the dialogue you want to run. The Dialogue Test screen displays.

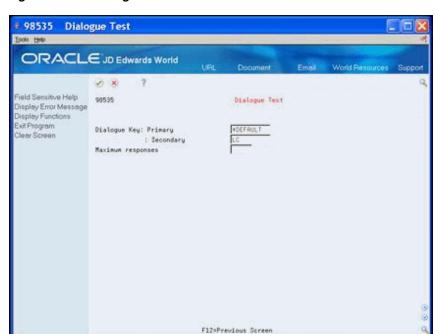


Figure 33-11 Dialogue Test screen

- Enter a number for the maximum number of times you want to run this dialogue in the following field:
 - Maximum responses

The questions of the dialogue display in sequence. When you reach the last question, a message displays at the bottom of the Dialogue Selection screen.

Choose Review Selections (F5) when the last question displays, to access the Quiz Answer Review screen.

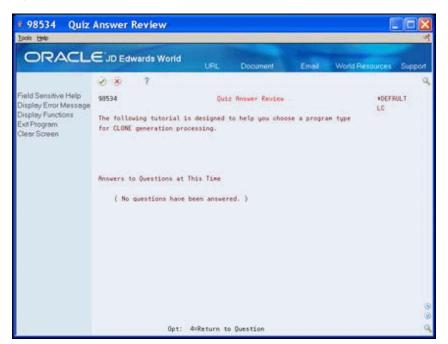
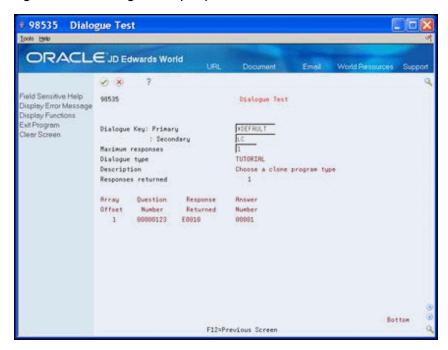


Figure 33-12 Quiz Answer Review screen

- **4.** The screen displays with the information about your answers. To review the remaining questions and answers, choose Display Next Question (F19) and Display Previous Question (F20).
- Enter 4 to return to a specific question.
- Click Exit on the last question screen to display the Dialogue Test screen.

Figure 33–13 Dialogue Test (Exit) screen



The Dialogue Test screen displays the values for number of times the dialogue was run, the Responses Returned at the end of the dialogue, and the Answer Number of the last question.

Click Exit (F3) to return to the Dialogue Lists screen.

To delete a dialogue

On Dialogue Lists, enter 9 in the Option field next to the dialogue you want to delete.

The system deletes the dialogue.

To run a quiz

To run a quiz, the dialogue type must be QUIZ.

- On Dialogue Lists, enter 11 in the Option field next to the quiz you want to run. The first question of the quiz displays.
- **2.** Answer the questions.

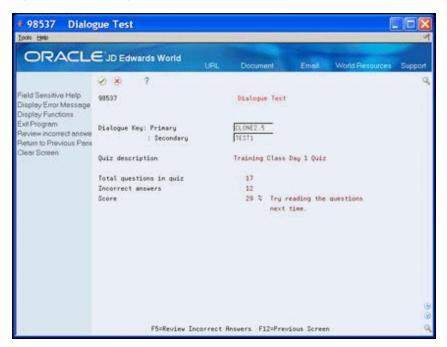
When you finish answering the questions, a message displays at the bottom of the last screen, Question and Answer complete.

- Perform one of the following:
 - To review choose Review Incorrect Answers (F5)
 - Click Enter

When you choose Review Incorrect Answers, the questions and answers display on the screen. When you click Enter, the system calculates the number of errors and displays your score.

Choose Review Incorrect Answers (F5) from this Dialogue Test screen to review your errors.





Create User Defined PDL

This chapter contains the topic:

Section 34.1, "Creating User Defined PDL."

34.1 Creating User Defined PDL

You attach *PROCs to either a master file field or to a device file field (screen or report). If you attach them to a master file field, then the system places the code it generates in S005. If you attach them to a device file field, then the system places the code it generates in S004.

The purpose of User Defined PDL Entry Points is to allow you to create *PROCs in any subroutine and to allow them to exist without attaching them to a master file field or device file field. You define the entry points within subroutines where you enter PDL code using the Detailed Programming Facility. User Defined PDL Entry Points are a functional directive that you can enter into a primary logic module.

The User Defined PDL Entry Points cause the system to create RPG code in the same manner as users entering the PDL using the Detailed Programming Facility; however, you connect it to logic modules instead of fields.

In any primary logic module you can insert up to 99 PDL directives. Ordinarily, you number the first one PDL01, the second one PDL02, and so forth. PDL directives do not have to be in sequential order; however, each PDL directive must have a unique number within that logic module.

For all single record maintenance forms, you create a user defined PDL entry point in the mainline subroutine. Enter PDL to bring in a default value for a constant field.

For example, change the logic module MAINLINE because this module creates the mainline code for all single record maintenance forms.

Before You Begin

You must be able to locate program types and logic modules. See Section 30.4, "Creating or Modifying Program Types" and Chapter 31, "Work with Logic Modules."

To create user defined PDL

Navigation

From Model Program Design Menu (G9361), under LOGIC MODULES, choose Create/Modify

1. On Create/Modify (Logic Module), access the Edit screen.

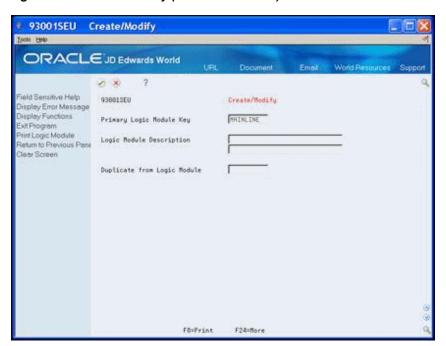


Figure 34-1 Create/Modify (User Defined PDL) screen

On the Edit screen, create the user defined PDL entry points within the affected primary logic modules.

The naming convention for user defined PDL entry points is PDLxx, where xx is a two digit number between 01 and 99.

You can either add the PDL directive to an existing line of code that does not contain a directive, or insert a new line and enter the directive on this line. The directive goes in positions 1 to 5 of the source line. If you insert a new line, remember to add the source sequence and serial number in the appropriate columns. (Move to column 80.)

In this example, you enter PDL01 on line 9. Any PDL code that you enter for this entry point will come immediately after the statement EXSR S999 and before the test for *INLR.

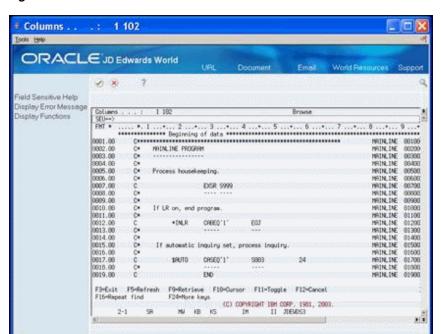
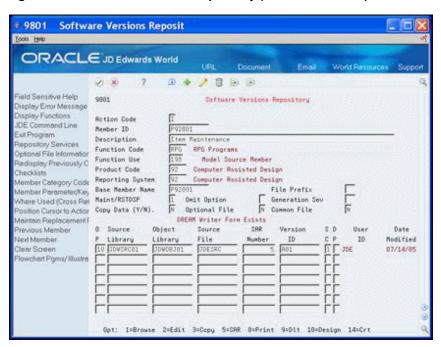


Figure 34-2 Edit PDL Code screen

Access the Software Versions Repository and locate the member.

Figure 34–3 Software Versions Repository (User Defined PDL) screen



Enter 10 (Design) next to the environment in the Option field: The Program Generator Specification screen displays.

93100M Define Generator Specification ORACLE JD Edwards World Field Sensitive Help Display Error Message Member 10 P92881 File ID JDESRC Src Library JDFSRC91 Parameter Validation M SRR Number Ext Program Type I next to desired option(s) and press ENTER. Software Search Software Search

Press F21 to select all.

"identifies functions already defined.

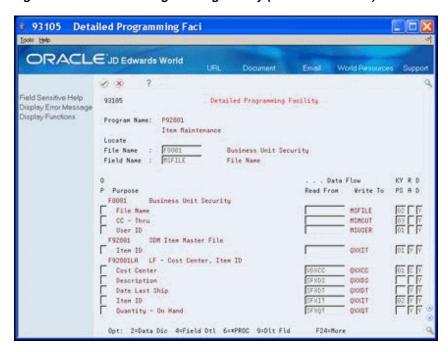
"identifies functions already defined. Select All Functions Delete All Specifications Opt Generator Definition Option: Program Purpose and Type File Specifications Define General Instructions Define Option and Function Key Exits Detailed Programming Facility Define Processing Options

Figure 34–4 Define Generator Specification (User Defined PDL) screen

On Define Generator Specification, enter 1 in the Option field to access the **Detailed Programming Facility:**

The Detailed Programming Facility screen displays.

Figure 34–5 Detailed Programming Facility (User Defined PDL) screen

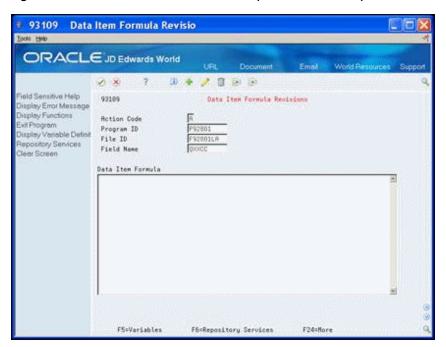


Enter the PDL code through the Detailed Programming Facility.

All user defined PDL entry points appear after the form or report file fields in the Detailed Programming Facility.

- 7. On Detailed Programming Facility, enter 6 in the Option field to access Data Item Formula Revisions.
- **8.** Enter the PDL code.

Figure 34–6 Data Item Formula Revisions (User Defined PDL) screen



Program Generator Checklist

This appendix contains these topics:

- Section A.1, "Data File Design Aid,"
- Section A.2, "Screen Design Aid,"
- Section A.3, "Report Design Aid,"
- Section A.4, "Program Generator."

You can use the following to aid you as you use the Program Generator. It includes topics that you should consider as you use the Program Generator.

A.1 Data File Design Aid

Attempt to create files with keys to avoid having to process by relative record numbers. Processing by relative record numbers is more complex than processing by keys.

A.2 Screen Design Aid

For Subfile Programs, you should define:

- A hidden field for the parts of the file key that the subfile video uses if you create a maintenance subfile.
- The hidden field, SH#RRN if processing by relative record numbers.
- A hidden field for the data structure if processing by relative record numbers.

You should:

- Note the video fields that relate to VC0 fields. You need this information in the Detailed Programming Facility in order to load the VC0 fields.
- Note the error indicators the system assigns to screen fields.
- Prepare final checks:
 - Did you assign the Default Cursor keyword to a video field?
 - Did you allow for upper and lower case on description fields?
 - Did you specify a K in the Edited field for the key fields only?

Note: The Screen Design Aid is currently not available in the Java platform for JD Edwards World software. You must perform these tasks using the green screen platform of the software.

A.3 Report Design Aid

- Change the Start/End lines for format HEADING1 from 1-4 to the length you need. Usually 1-8 will suffice.
- Add DETAIL1 format.
- Add TOTAL1 format if using hierarchical (dynamic) totaling. You must include one or all of the following fields which enable dynamic totaling:
 - VC1ROW, VC1KEY, VC1DSC, VC0TO2
- Add HEADING2 format if using subheadings. You must include one or all of the following fields that enable subheadings to work properly:

VC0ROW, VC0KEY, VC0DSC

A.4 Program Generator

- All Programs:
 - Ensure the CAP Status is set to Y. If CAP Status is not set to Y, then something could have ended abnormally.
 - Verify the program type.
- File Specifications:
 - You must specify one file with an M. Do not specify one file with an M and another with a 1 as the Program Generator views both files on an equal basis. Specify the main file as an M and subsequent files starting with 2.
 - You must specify a video or report file.
 - You cannot include description files if a field is in the HEADING2 format for a report.
- Option and Function Exits:
 - Ensure the program the system is launching is setup to accept parameters sent by the function key or selection exit.
 - Modify any CL programs that also launch a program to send blank parameters. For example, CALL Pxxxxx PARM()
 - Ensure the program to retrieve exists before using it on this screen.
 - Attempt to send PSxxxx fields instead of VDxxxx or SFxxxx fields.
 - May inadvertently change in the program the system launches.
 - You might have to define and load the PSxxxx fields manually.
- Detailed Programming Facility:
 - Enter N in the Entry Optional field for key fields in a subfile. You specify this for the subfile fields, not the hidden fields as it enables the delete function.
 - Link VC0 fields to description files.

- Use PDL in the Detailed Programming Facility to:
- Affect subroutine S005 when you enter it with a data base field.
- Affect subroutine S004 when you enter it with a video field.
- Use the Return keyword to omit the standard code the Program Generator creates.
- Specify a PLIST sequence if the program is going to receive parameters from another program. Use the video fields for this instead of the file fields.
- Use *OUTPUT to retrieve the row description from the Data Dictionary for fields that you only use in the HEADING2 format and not the DETAIL1 format.

Programming Standards

This appendix contains these topics:

- Section B.1, "Error Handling,"
- Section B.2, "Indicator Usage,"
- Section B.3, "Naming Conventions,"
- Section B.4, "Key List (KLIST),"
- Section B.5, "Work Fields,"
- Section B.6, "Current Date and Time."

B.1 Error Handling

JD Edwards World includes an efficient means of handling errors using arrays. The following illustrate the error handling arrays within the Single Record Maintenance Program.

- The EMK array contains the four byte data dictionary name of every error that can occur in this program.
- The @MK array maintains an indicator for each error in EMK. If one of the errors occurs, the system activates the indicator.
- The @ER array loads the error messages when you choose Display Error Message (F7) to view the errors.

The code to launch the error message handling program follows.

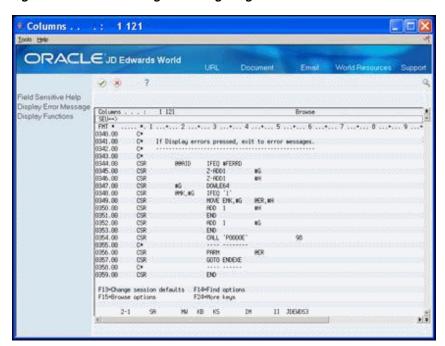


Figure B-1 Error Message Handling Program Code screen

If an error indicator is set to one, the program moves the corresponding data item from the array of all possible errors (EMK) into the array of the errors (@ER).

The system loads the array which contains every possible error for this program only once (in S999).

B.2 Indicator Usage

There are 99 indicators available for use. JD Edwards World groups them by purpose and includes standards for the use of the indicators that are in the following table. JD Edwards World does not include standards for indicators that are not in the following table.

INDICATOR	DESCRIPTION
01	Causes the Invalid Function Key Pressed message to display
02	Dictates the color palette to use
04	Controls subfile keywords SFLDROP and SFLFOLD for fold areas
20	Controls the clear screen action code
21	Controls the add action code
22	Controls the change action code
23	Controls the delete action code
24	Controls the inquire action code
31	The system uses this in conjunction with subfile processing to initiate the INVITE or SFLCLR keyword
32	The system uses this in conjunction with subfile processing initiating the keyword SFLNXTCHG
37	The system uses this in conjunction with subfile processing to highlight the last record in the display (used only with inquiry subfiles)

INDICATOR	DESCRIPTION
38	The system uses this in conjunction with subfile processing to control the display keyword SFLDSP
42-79	The system uses this for error processing to indicate which fields are in error
40	The system reserves this for errors in the Action Code field
41	The system reserves this for errors in the key fields
80-89	Indicates a general reusable one-time indicators
93	Indicates global error indicator that highlights line 24
98	Indicates a chain or read failure
99	Indicates a record is in use
OF	Indicates overflow for report processing
LR	Indicates that the last record has been read and the program should end normally
RT	Indicates that a temporary or final halt in the program should take place and returns to the calling program leaving files open

B.3 Naming Conventions

Use the following characters in the first place of the naming convention to distinguish different item names:

- @ Array names
- \$ Field names the program creates for flags and work fields
- # Fields you define in common subroutines

B.4 Key List (KLIST)

Define key lists in the housekeeping subroutine.

Begin the key list name with the data file prefix. For example, the Address Book Master file prefix is AB, so the key list would be ABKY01.

The program generator creates key lists using the following naming conventions:

- XXKY01 for physical files where XX = the file prefix. For example: ABKY01
- When a physical file needs to have more than one key list in a program, you denote the successive files by the last character. For example, for three key lists for the physical F0101, the key lists are: ABKY01, ABKY02, and ABKY03.
- XXKY0x for logical files where XX is equal to the file prefix and X is equal to the last letter of the logical file name. For example: ABKY0A for F0101LA, ABKY0B for F0101LB
- When a logical file needs to have more than one key list in a program, you denote the successive files by the penultimate character. For example, the three key lists for the logical F0101LA are: ABKY0A, ABKY1A, and ABKY2A.

B.5 Work Fields

Define work fields only once within a program. JD Edwards World recommends that you use the LIKE DEFN command to define work fields when their attributes directly tie to those of database fields.

For example, if the work field needs to have the same attributes as a field that exists in

MOVE ABANS \$ANS,

You then define \$ANS as follows:

*LIKE DEFN ABANS \$ANS

The advantage of this method is that the work field and database field retain the same attributes even if the database field changes.

When using work fields as an indicator, you should assign the prefix \$ and enter descriptive text for the remainder of the name. For example, a work field name such as \$GLOBL is more descriptive than a field name such as \$G.

For numeric indices, use the fields in the data structure I00DSINX.

B.6 Current Date and Time

When retrieving the current date and time, use the TIME operation code instead of UDATE. UDATE obtains the date format of the system on which you compiled the program. You cannot change the date format without recompiling the program. TIME uses the system's date format when it executes the operations code.

Note: The TIME operation requires significant system resources. If possible, use it only once for a program. Typically, this would occur in the Housekeeping Subroutine (S999).

Always use program X0028 to edit dates and format them for output.

CASE Program Types

This appendix contains these topics:

- Section C.1, "Guidelines,"
- Section C.2, "A0010 Interactive Subfile Inquiry,"
- Section C.3, "A0020 Interactive Single Record Inquiry,"
- Section C.4, "B0010 Interactive Single Record Maintenance,"
- Section C.5, "C0010 Batch Report with Totals,"
- Section C.6, "C0020 Batch Report with Totals and Subheadings,"
- Section C.7, "C0025 Batch Report with Totals and Subheadings,"
- Section C.8, "D0010 Interactive Subfile Maintenance with Action Code, without Options, by Relative Record Number,"
- Section C.9, "D0020 Interactive Subfile Maintenance without Action Code, without Options, by Relative Record Number,"
- Section C.10, "D0030 Interactive Subfile Maintenance without Action Code, without Options, by Relative Record Number with Read Next Modified Record,"
- Section C.11, "D0040 Interactive Subfile Maintenance with Action Code, with Options, by Key,"
- Section C.12, "D0050 Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Relative Record Number,"
- Section C.13, "D0060 Interactive Subfile Maintenance with Action Code, without Options, by Key,"
- Section C.14, "D0070 Interactive Subfile Maintenance with Action Code, with Options, by Relative Record Number,"
- Section C.15, "D0080 Interactive Subfile Maintenance without Action Code, with Options, by Relative Record Number,"
- Section C.16, "D0090 Interactive Subfile Maintenance with Action Code, without Options, by Relative Record Number, Balance,"
- Section C.17, "D0100 Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Key,"
- Section C.18, "E0010 Interactive Window,"
- Section C.19, "X0010 Batch Update with Report,"
- Section C.20, "X0020 Batch Update,"

- Section C.21, "X0030 Batch Update with Subroutine S001,"
- Section C.22, "X0040 Batch Update with Report,"
- Section C.23, "Y0010 Conversion, Two Files with Error Report,"
- Section C.24, "Y0020 Conversion, One File Update with Error Report,"
- Section C.25, "Y0030 Conversion, One File Write with Error Report."

This appendix includes each program type, the requirements for each program type, and its use. Use this as a quick reference for all program types.

C.1 Guidelines

The following are optional:

- General help instructions, however JD Edwards World highly recommends you include these.
- Detail (fold) areas and AAIs within program types.
- Processing Options. Define processing options for batch processing. The step in the program generator which automatically includes the logic to retrieve this information is subroutine S999. Define the special calculations to use the processing options.
- User defined options and function exits for all program types.
- Calculations you can create using Program Design Language in the Detailed Programming Facility.
- VC0 description fields updates.

C.2 A0010 - Interactive Subfile Inquiry

C.2.1 Description

Use this program type to create an interactive subfile program. This subfile program is for inquiry purposes only. This program type processes a single master file by key. You cannot set the Lockout Action Codes fields. Create a display file prior to generating this program type.

C.2.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of the Screen Design Aid (SDA) with the value K. If you are using the Data Base Field Selection feature in SDA, the known key field updates automatically.

The use of an Action Code is optional. Enter a default cursor location if there is no action code.

C.2.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program to use with this program type. You can use the Quick Start CL Generator to automatically create your CL program.

C.2.4 File Specifications

This program type requires that you define a single master file and a display file. The master file contains M or 1 in the Input column. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.2.5 Detailed Programming Facility

Use a key list for record retrieval from the master file. If you are not using the complete key list, update the Key Sequence Field in the Detailed Programming Facility to include only those data items which are necessary. This key list should match your key field definition from the control format of the display file.

C.2.6 Special Considerations

Add special logic if you want to process the master file using the key as a restrictive key. The default logic performs a SETLL which positions the records from the file using the key and then scans without a key until the subfile fills.

C.2.7 Quick Start Generation

You can generate this program type using the Quick Start CL Generator.

C.3 A0020 - Interactive Single Record Inquiry

C.3.1 Description

Use this program type to create an interactive single record program. This program is for inquiry purposes only. Create a display file prior to generating this program type. This program type processes a single master file by key.

C.3.2 Display File Definition

This program type scrubs the key field in the display file prior to processing the master file. The key field is noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you are use the Data Base Field Selection feature in SDA, the known key field updates automatically.

The use of an Action Code is optional. Enter a default cursor location if there is no action code. This program type does not use Lockout Action Codes.

C.3.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.3.4 File Specifications

This program type requires that you define a single master file and a display file. The master file contains M or 1 in the Input column. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.3.5 Special Considerations

This program type uses a key list for record retrieval from the master file. This key list should match your key field definition from the control format of the display file. One record displays per inquiry.

C.3.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.4 B0010 - Interactive Single Record Maintenance

C.4.1 Description

Use this program type to create an interactive single record maintenance program. Create a display file prior to generating this program type. This program type processes a single master file by key.

C.4.2 Display File Definition

This program type scrubs the key field in the display file prior to processing the master file. The key field is noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you are using the Data Base Field Selection feature in SDA, the known key field updates automatically.

You must use an Action Code. Lockout Action Codes are optional.

C.4.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program to use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.4.4 File Specifications

This program type requires that you define a single master file and a display file. The master file contains M or 1 in the Update column. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.4.5 Detailed Programming Facility

Use a key list for record retrieval from the master file. If you are not using the complete key list, update the Key Sequence Field in the Detailed Programming Facility to include only those data items which are necessary. This key list should match your key field definition from the control format of the display file.

C.4.6 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.5 C0010 - Batch Report with Totals

C.5.1 Description

Use this program type to create a batch report program that you manipulate using DREAM Writer. Create a printer file prior to generating this program type. This program type processes a single master file. You choose the data for the batch report using DREAM Writer Data Selection and Data Sequence parameters. The Batch Report with Totals program type does not use Lockout Action Codes and user defined options and function exits.

C.5.2 Printer File Definition

This program type requires that formats HEADING1 and DETAIL1 exist in the printer file. Format TOTAL1 is optional for totals.

C.5.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program to use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.5.4 File Specifications

This program type requires that you define a single master file and a printer file. The master file contains M or 1 in the Input column. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.5.5 Special Considerations

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

When creating your DREAM Writer Version, ensure that the value of 2 is in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

C.5.6 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.6 C0020 - Batch Report with Totals and Subheadings

C.6.1 Description

Use this program type to create a batch report program that you manipulate using DREAM Writer. Create a printer file prior to generating this program type. This program type processes a single master file. You choose the data for the print program using DREAM Writer Data Selection and Data Sequence parameters. The Batch Report with Totals and Subheadings program type does not use Lockout Action Codes and user defined options and function exits.

C.6.2 Printer File Definition

This program type requires that formats HEADING1, HEADING2 and DETAIL1 exist in the printer file. Format TOTAL1 is optional for totals.

C.6.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.6.4 File Specifications

This program type requires that you define a single master file and a printer file. The master file contains M or 1 in the Input column. The printer file begins with an R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.6.5 Special Considerations

If printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

If printing subheadings using format HEADING2, use the special keywords for Data Dictionary description (VC0ROW), data key field (VC0KEY), and data key description (VC0DSC).

When creating your DREAM Writer Version, ensure that the value of 2 is in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

C.6.6 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.7 C0025 - Batch Report with Totals and Subheadings

C.7.1 Description

Use this program type to create a batch report program that you manipulate using DREAM Writer. Create a printer file prior to generating this program type. This program type processes a single master file. You choose the data for the print program using DREAM Writer Data Selection and Data Sequence parameters. The Batch Report with Totals and Subheadings program type does not use Lockout Action Codes and user defined options and function exits.

C.7.2 Printer File Definition

This program type requires that formats HEADING1, HEADING2 and DETAIL1 exist in the printer file. Format HEADING2 is the format that prints subheadings. Format TOTAL1 is optional for totals.

C.7.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.7.4 File Specifications

This program type requires that you define a single master file and a printer file. The master file contains M or 1 in the Input column. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.7.5 Special Considerations

This program type is not a Q&A response in the Program Purpose and Type step. To use this program type, enter an X in the first Q&A question to provide this program type name.

This program type is identical to C0020 except that the subheadings headings print above the column headings. When you use this program type, control the page breaks to match the subheadings.

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

If printing subheadings using format HEADING2, use the special keywords for Data Dictionary description (VC0ROW), data key field (VC0KEY), and data key description (VC0DSC).

When creating your DREAM Writer Version, ensure that the value of 2 is in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

C.7.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.8 D0010 - Interactive Subfile Maintenance with Action Code, without **Options, by Relative Record Number**

C.8.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records display. The secondary master file processes by relative record number and controls the database updates.

C.8.2 Display File Definition

This program type scrubs the key field in the control format of the display file prior to processing the master file. The key field is noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key field update automatically.

You must use an Action Code. Lockout Action Codes are optional.

The system stores the record number of each subfile record in a hidden relative record number field. Add the field SH#RRN to the subfile format with S in the Type field and 9.0 in the Size field, using the Display All Defined Fields in the SDA.

C.8.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.8.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed, and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the primary master file. The secondary master file contains 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.8.5 Detailed Programming Facility

Use a selection exit 4 to exit to the Detailed Programming Facility for the subfile field controlling the update to the database. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database. Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After (Y/N) field. This prevents the key field for page up and page down key processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.8.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This program type must also have a hidden relative record number field and an entry optional field.

C.8.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.9 D0020 - Interactive Subfile Maintenance without Action Code, without **Options, by Relative Record Number**

C.9.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records display. The secondary master file processes by relative record number and controls the database updates.

C.9.2 Display File Definition

This program type scrubs the key field in the control format of the display file prior to processing the master file. The key field is noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key field update automatically.

This program type does not use an Action Code. Enter a default cursor location.

The system stores the record number of each subfile record in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.9.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.9.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the primary master file. The secondary master file contains a 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.9.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.9.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This type must also have a hidden relative record number field and an entry optional field.

C.9.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.10 D0030 - Interactive Subfile Maintenance without Action Code, without Options, by Relative Record Number with Read Next Modified Record

C.10.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records are display. The secondary master file processes by relative record number and controls the database updates. The system bases updates to the subfile on read next change (READC) logic.

C.10.2 Display File Definition

This program type scrubs the key field in the control format of the display file prior to processing the master file. The key field is noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

This program type does not use an Action Code. Enter a default cursor location.

The system stores the record number of each subfile record in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.10.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.10.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the

primary master file. The secondary master file contains a 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.10.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the update to the database. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.10.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This type must also have a hidden relative record number field and an entry optional field.

C.10.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.11 D0040 - Interactive Subfile Maintenance with Action Code, with Options, by Key

C.11.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes a single master file by key.

C.11.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you are using the Data Base Field Selection feature in SDA, the known key fields update automatically.

You must define Action Codes. Lockout Action Codes are optional.

This subfile maintenance program type allows you to delete individual subfile records using special logic. You perform this by entering C in the Action Code field, comparing the previous value with the current value and then deleting the record if the current value is blank. The system stores the previous value in a hidden field at the subfile record level using the Display All Defined Fields in the SDA.

C.11.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.11.4 File Specifications

This program type requires that you define a single master file and a display file. The master file contains M or 1 in the Update column. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.11.5 Detailed Programming Facility

Use a selection 4 to exit to the field details for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

C.11.6 Special Considerations

This program type uses the key information in the display file for chaining to the master file. This type must also have a hidden field and an entry optional field.

C.11.7 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.12 D0050 - Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Relative Record Number

C.12.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and the system updates it from the fields in the control format of the display file. The secondary master file processes by relative record number and the system update it from the fields in the subfile format of the display file.

C.12.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

You must define Action Codes. Lockout Action Codes are optional.

The system stores the record number of each subfile record in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.12.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.12.4 File Specifications

This program type requires that you define a two keyed master files, a secondary master file which is not keyed and a display file. The first master file contains 1 in the Update column. The system updates this file from the control format of the display file. The second master file is a non-keyed file which the subfile format of the display file updates. The second master file contains 2 in the Update column and X under the Add column. Enter N in the Keyed (Y/N) field in the fold area. The third master file is the logical file that the system uses for sequencing records in the subfile. This file contains 3 in the Input column. You enter a value in the File Information Data Structure field in the fold area of this master file. The keyed master files have a similar key list sequence. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.12.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update function. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.12.6 Special Considerations

This program type uses the key information in the subfile control format of the display file for retrieving one record from the first master file and multiple records from the second master file. This type must also have a hidden field and an entry optional field.

C.12.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.13 D0060 - Interactive Subfile Maintenance with Action Code, without Options, by Key

C.13.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes a single master file by key.

C.13.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

You must define Action Codes. Lockout Action Codes are optional.

This subfile maintenance program type allows you to delete individual subfile records using special logic. You perform this logic by entering C in the Action Code, comparing the previous value with the current value and then deleting the record if the current value is blank. The system stores the previous value in a hidden field at the subfile record level. Define this field in the display file prior to generating this program type by using Display All Defined Fields in SDA.

C.13.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.13.4 File Specifications

This program type requires that you define a single master file and a display file. The master file contains an M or 1 in the Update column. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.13.5 Detailed Programming Facility

Use a selection 4 to exit to the field details for the SF field controlling the update to the database. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

C.13.6 Special Considerations

This program type uses the key information in the display file for chaining to the master file. This type must also have a hidden field and an entry optional field.

C.13.7 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.14 D0070 - Interactive Subfile Maintenance with Action Code, with **Options, by Relative Record Number**

C.14.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records display. The secondary master file processes by relative record number and controls the database updates.

C.14.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you are using the Data Base Field Selection feature in SDA, the known key fields update automatically.

You must define the Action Codes. Lockout Action Codes are optional.

The system stores the record number of each subfile record in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.14.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.14.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed, and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the primary master file. The secondary master file contains a 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display file begins with a V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.14.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page

down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.14.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This type must also have a hidden relative record number field and an entry optional field.

C.14.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.15 D0080 - Interactive Subfile Maintenance without Action Code, with **Options, by Relative Record Number**

C.15.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records display. The secondary master file processes by relative record number and controls the database updates.

C.15.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

Do not use Action Codes. Enter a default cursor location.

This program type processes the secondary master file by relative record number. The record number of each subfile record is stored in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.15.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.15.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the primary master file. The secondary master file contains a 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.15.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

If you are creating an inquiry which uses a partial key list from the master file, you must change the Key Sequence field (KY PS) in the Detailed Programming Facility. The KY column is to the right of the master file field names and contains the sequence number for the key fields. Clear all sequence numbers that are not in the key search that you define in the control format of the display file. The key sequence you define in the Detailed Programming Facility should match the key fields in the control format.

C.15.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This type must also have a hidden relative record number field and an entry optional field.

C.15.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.16 D0090 - Interactive Subfile Maintenance with Action Code, without **Options, by Relative Record Number, Balance**

C.16.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and controls the sequence in which the records display. The secondary master file processes by relative record number and controls the database updates. The system verifies all records before it performs any database updates.

C.16.2 Display File Definition

This program type scrubs the key fields in the control format of the display file for positioning within the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

Do not use Action Codes. Enter a default cursor location.

This program type processes the secondary master file by relative record number. The record number of each subfile record is stored in a hidden relative record number field. Add the field SH#RRN to the subfile format with a type of S and a size of 9.0 by using Display All Defined Fields in SDA.

C.16.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator for creation of your CL program.

C.16.4 File Specifications

This program type requires that you define a keyed master file, a secondary master file which is not keyed, and a display file. The master file contains 1 in the Input column. You enter a value in the File Information Data Structure field in the fold area of the primary master file. The secondary master file contains a 2 in the Update column and N in the Keyed (Y/N) field in the fold area. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.16.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

Because there are two master files for this program type, you must add special logic to control the page up and page down keys. Subroutine S001 contains logic to clear all non-key fields for each of the master files. Since the second master file has no keys, all fields clear. This causes the page up and page down processing for the keyed master file to work incorrectly after the first subfile page fills. To rectify the page up and page down processing, locate the field within the second master file that is the key to the primary keyed master file. Use selection exit 4 to display the Detailed Programming Facility and enter N in the Clear After field. This prevents the key field for page up and page down processing from clearing.

C.16.6 Special Considerations

This program type uses the key information in the display file for positioning within the master file. This type must also have a hidden field and an entry optional field. The update logic in this program type processes all subfile transactions prior to performing the database updates. This allows the system to balance transactions or verify all records before it updates the database.

C.16.7 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.17 D0100 - Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Key

C.17.1 Description

Use this program type to create an interactive subfile maintenance program. Create a display file prior to generating this program type. This program type processes two master files. The primary master file is keyed and the system updates it from the fields in the control format of the display file. The secondary master file processes by key and the system updates it from the fields in the subfile format of the display file.

C.17.2 Display File Definition

This program type scrubs the key fields in the control format of the display file prior to processing the master file. The key fields are noted by updating the Edited Field in the Field Definition screen of SDA with the value K. If you use the Data Base Field Selection feature in SDA, the known key fields update automatically.

You must define the Action Codes. Lockout Action Codes are optional.

This program type requires that you define one or more hidden fields in the subfile record. The fields in the subfile that are keys to the second master file must also have hidden fields. Add the hidden fields by using Display All Defined Fields in SDA.

C.17.3 CL Program Definition

Copy and revise the model CL program J98MODEL1 to create a CL program for use with this program type. Use the Quick Start CL Generator for creation of your CL program.

C.17.4 File Specifications

The first master file contains 1 in the Update column. The system updates this file from the control format of the display file. The second master file contains 2 in the Update column and X in the Add column. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.17.5 Detailed Programming Facility

Use a selection exit 4 to display the Detailed Programming Facility for the subfile field controlling the database update. Enter N in the Entry Optional field. Entering N informs the program generator that the user must complete this field before the system updates the database.

C.17.6 Special Considerations

This program type uses the key information in the display file for chaining to the master file. This type must also have a hidden field and an entry optional field.

C.17.7 Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C.18 E0010 - Interactive Window

C.18.1 Description

Use this program type to create an interactive window program. Create a display file prior to generating this program type. This program type processes a single master file by key.

C.18.2 Display File Definition

SDA builds the DDS for a window program when you select Fast Path Create for Window, Y. Update the predefined VTX field from Row Desc to a meaningful Skip To description. SDA defines a key field. Delete this field and add a VD field which is the same as the key to the master file. If the key field is greater than 10 in length, you must also shorten the literal field that follows that key and precedes the window border.

Do not use Action Codes.

C.18.3 CL Program Definition

A CL program is option for this model.

If you want to create a CL program, copy and revise the model CL program J98MODEL1 to create a CL program to use with this program type. Use the Quick Start CL Generator to automatically create your CL program. The interactive window program type assumes three parameters. Add these to the call statement for your program.

C.18.4 File Specifications

This program type requires the use of a single master file and a display file. The master file contains M or 1 in the Input column. The display file begins with V and has blank selection columns. Add files to retrieve descriptions if necessary.

C.18.5 Define Option and Function Key Exits

If you use this window to retrieve values to the calling program, add #SSELC to the Function Exit definitions.

C.18.6 Detailed Programming Facility

If used, update all VC0 description fields in the Detailed Programming Facility.

The system uses a key list for record retrieval from the master file. If you are not using the complete key list, update the Key Sequence field (KY PS) in the Detailed Programming Facility to include only those data items which are necessary. This key list should match your key field definition from the control format of the display file.

Update the fields MNMNI and MNMTTL with the key and the key description fields. Subroutine S004 assumes that only two fields display per master file record. If you plan to display more than two fields, modify this subroutine.

C.18.7 Special Considerations

This program type uses a key list for record retrieval from the master file. This key list should match your key field definition from the control format of the display file. One record displays per inquiry.

Subroutine S004 assumes that only two fields display per master file record. If you plan to display more than two fields, modify Subroutine S004 through JD Edwards World SEU or *PROC. JD Edwards World includes two entry points into this subroutine.

The system updates the window key literal in the upper left hand corner of the display file at run time. Modify subroutine S999 through *PROC prior to compiling the RPG program. Assign the video screen name to the work field VC01 using the entry point in subroutine S999.

C.18.8 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.19 X0010 - Batch Update with Report

C.19.1 Description

Use this program type to create a batch update program that you manipulate using DREAM Writer. Create a printer file prior to generating this program type. This program type processes a single master file. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters.

C.19.2 Printer File Definition

This program type requires that formats HEADING1 and DETAIL1 exist in the printer file. Format TOTAL1 is optional exist for totals.

C.19.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.19.4 File Specifications

The master file contains M or 1 in the Update column. Remove default value of X in the Add column or add special logic to your program for writing to the master file. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.19.5 Special Considerations

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

When creating your DREAM Writer Version, ensure that the value of 2 is in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

This program updates the master file in subroutine S010. You might want to add special logic to control when updates occur.

C.19.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.20 X0020 - Batch Update

C.20.1 Description

Use this program type to create a batch update program that you manipulate using DREAM Writer. This program type processes two master files. The system uses the primary master file to retrieve data from the secondary master file. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. Do not create user defined options and function exits.

C.20.2 Printer File Definition

You do not use a printer file with this program type.

C.20.3 CL Program Definition

Copy and revise the model CL program J98MODEL2 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.20.4 File Specifications

This program type requires that you define a key for both the master file and secondary file. The master file contains 1 in the Input column. The secondary master file contains 2 in the Update column. Add files to retrieve descriptions if necessary.

C.20.5 Special Considerations

This program type chains to the secondary master file in subroutine S003. Update the key field or key list prior to this chain. The system does not automatically update key fields in this program type.

This program type contains subroutine S005 for all calculations. Add all special logic code between the read of the primary master file and the update or write of the secondary master file.

This program updates the master file records in subroutine S010.

C.20.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.21 X0030 - Batch Update with Subroutine S001

C.21.1 Description

Use this program type to create a batch update program that you manipulate using DREAM Writer. This program type processes two master files. The system uses the primary master file to retrieve data from the secondary master file. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. Do not create user defined options and function exits.

C.21.2 Printer File Definition

You do not use a printer file with this program type.

C.21.3 CL Program Definition

Copy and revise the model CL program J98MODEL2 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.21.4 File Specifications

This program type requires that you define a key for both the master file and secondary file. The master file contains 1 in the Input column. The secondary master file has 2 in the Update column. Add files to retrieve descriptions if necessary.

C.21.5 Special Considerations

This program type clears the non-key fields from the primary master file between each record the system processes.

This program type chains to the secondary master file in subroutine S003. Update the key field or key list prior to the chain. Key fields do not automatically update in this program type.

This program type includes subroutine S005 for all calculations. Add all special logic necessary between the read of the primary master file and the update of the secondary

This program updates the master file records in subroutine S010.

C.21.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.22 X0040 - Batch Update with Report

C.22.1 Description

Use this program type to create a batch update program that you manipulate using DREAM Writer. Create a printer file prior to generating this program type. You should design the printer file to print an audit trail of each record that the system updates. This program type processes two master files. The system interprets the primary

master file and updates the second master file. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. Do not create user defined options and function exits.

C.22.2 Printer File Definition

This program type prints an audit trail for each record that the system saves in the second master file. Formats HEADING1 and DETAIL1 must exist in the printer file. Format TOTAL1 is optional, and you can use this to have the system compute totals for the level breaks that you define in the DREAM Writer Data Sequence.

C.22.3 CL Program Definition

Copy and revise the model CL program J98MODEL2 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.22.4 File Specifications

This program type requires that you define a key for both the master file and secondary file. The master file contains 1 in the Input column. The secondary master file has 2 in the Update column. Add files to retrieve descriptions, if necessary.

C.22.5 Special Considerations

This program type chains to the secondary master file in subroutine S003. Update the key field or key list prior to this chain. Key fields do not automatically update in this program.

This program type uses subroutine S004 to format fields for output to the report. Add any special logic necessary between the read of the primary master file and the update of the second master file.

This program type uses subroutine S005 to scrub and edit the fields in the second master file. Use the Detailed Programming Facility to associate fields in the primary master file with fields in the second master file. Add any special logic that is necessary to compute the proper value that the system loads to the output fields.

Subroutine S010 controls the printing of the report.

Subroutine S011 updates the records in the second master file.

C.22.6 Quick Start Generation

You can not generate this program type using the Quick Start CL Generator.

C.23 Y0010 - Conversion, Two Files with Error Report

C.23.1 Description

Use this program type to create a batch conversion program that you manipulate using DREAM Writer. This program type processes two master files. The system interprets the primary master file and updates the second master file. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. Do not create user defined options and function exits.

C.23.2 Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

C.23.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.23.4 File Specifications

This program type requires that you define a key for both the master file and secondary file. The master file contains 1 in the Input column. The secondary master file had 2 in the Update column. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.23.5 Special Considerations

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

When printing the error report, format ERROR1 must contain the special fields for error message description (RRDSCA) and error message number (RREKEY).

When creating your DREAM Writer Version, enter 2 in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

This program type chains to the secondary master file in subroutine S003. Update the key field or key list prior to the chain. Key fields do not automatically update in this program type.

This program type includes subroutine S005 for all calculations. Add all special logic necessary between the read of the primary master file and the update of the secondary

This program updates the master file records in subroutine S010.

C.23.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.24 Y0020 - Conversion, One File Update with Error Report

C.24.1 Description

Use this program type to create a batch conversion program that you manipulate using DREAM Writer. This program type processes a single master file by key. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. You do not use Lockout Action Codes, user defined options, and function exits.

C.24.2 Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

C.24.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.24.4 File Specifications

This program type requires that you define a key for a single master file. The master file contains 1 in the Update column. This program type does not update the master file. Clear the X from the Add column, if necessary. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.24.5 Special Considerations

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

When printing the error report, format ERROR1 must contain the special fields for error message description (RRDSCA) and error message number (RREKEY).

When creating your DREAM Writer Version, enter 2 in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

This program type uses subroutine S005 for all calculations. Add special logic necessary between the read of the primary master file and the update of the master file.

This program updates the master file records in subroutine S010.

C.24.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

C.25 Y0030 - Conversion, One File Write with Error Report

C.25.1 Description

Use this program type to create a batch conversion program that you manipulate using DREAM Writer. This program type processes a single master file by key. You choose the data for the batch update program using DREAM Writer Data Selection and Data Sequence parameters. You do not use Lockout Action Codes, user defined options, and function exits.

C.25.2 Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

C.25.3 CL Program Definition

Copy and revise the model CL program J98MODEL6 to create a CL program for use with this program type. Use the Quick Start CL Generator to automatically create your CL program.

C.25.4 File Specifications

This program type requires that you define a key for a single master file. The master file contains 1 in the Update column. As this program type updates the master file, enter X in the Add column. The printer file begins with R and has blank selection columns. Add files to retrieve descriptions if necessary.

C.25.5 Special Considerations

If you are printing totals using format TOTAL1, use the special keywords for Data Dictionary description (VC1ROW), data key field (VC1KEY), and data key description (VC1DSC).

When printing the error report, format ERROR1 must contain the special fields for error message description (RRDSCA) and error message number (RREKEY).

When creating your DREAM Writer Version, enter 2 in the Type Report Totaling field on the Additional Parameters screen. This allows hierarchal totaling and page breaks in the Data Sequence.

This program type uses subroutine S005 for all calculations. Add special logic necessary between the read of the primary master file and the update of the master file.

This program updates the master file records in subroutine S010.

C.25.6 Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

Source Listings

This appendix contains these topics:

- Section D.1, "Program Status Data Structure I00DSPROG,"
- Section D.2, "Copy Module Retrieve Soft Coding Data Structure I00SC,"
- Section D.3, "Item Master Information P928011."

D.1 Program Status Data Structure - I00DSPROG

Figure D-1 Program Status Data Structure Source Code (1 of 2)

```
98330
I00DSPROG .JDFSRC61
                                                                                                                                                                                                                                  Date - 27,01,17
                                                                                                                                                                                                                           Mod Date
                         PROGRAM STATUS DATA STRUCTURE

Portions of this data structure
program is loaded. Other porti-
are loaded as you perform I/O.

PURPOSE
This common subroutine is set-
(Business Unit Security) common
Action Code) common subroutine
is will retrieve #SUCER for the u

No program calcs are done in t
                                                                                                                                                                                                                           08.02.85
08.02.85
08.02.85
                                                                                                                                                                                                                           08.02.85

08.02.85

08.02.85

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08.02.85

08.02.85

08.02.85

08.02.85
                                           Portions of this data structure are loaded at the time the program is loaded. Other portions of this data structure are loaded as you perform I/O.
                                         This common subroutine is set up to be used with C0000 (Business Unit Security) common subroutine and C0001(Edi Action Code) common subroutine. Those two subroutines will retrieve $$4032E for the user name.
    16.00
17.00
18.00
                                     No program calcs are done in this subroutine.
                                                                                                                                                                                                                             08.02.85
                            I∰PSDS SDS
                                                     Program Name
                                                  Frogram Name

1 10 ##PROG
Status Code(09999=I/O Error)

11 150##STAT
                                                                                                                                           error Occured
36 ##ROUT
                                           RPG Routine in Which Exception
                                            Number of Parameters Passed to This Program
37 3004#87ATM
Exception Type (MCIB-Machine, CFF-CFF)
Exception Message Number
43 46 ##ETTP
Machine Instruction/Object Definition Template Number
47 50 ##MIN
Work Area for Messages
51 80 ##MIN
                                                   Work Area for Messages 51 80 ##MMERN
Name of Library in Which Program is Located
190 ##PLIB
Retrieved Exdeption Data 90 #PLIB
170 ##MSS
                                                  Identification of Exception That Caused RPG9001
171 174 ##9001
                                                    Unused 175 200 ##FLR1
Name of File for Last I/O(only Updated if Error)
201 208 ##LFIL
                                                  201 208 ###FITE
Status Info on Lest File Used(Only on Error)
209 243 ##LF0T
Status Code on Lest File Used(Only on Error)
209 213 ##LF05
```

Figure D-2 Program Status Data Structure Source Code (2 of 2)

98330		JD Edwards World	
I00DSPROG	.JDFSRC61	Print Source Code	Date - 27.01.17
Seq No.			
			Mod Date
57.00	I*	User Name From User Profile	08.02.85
58.00	I	254 263 ##USE R	08.02.85
59.00	I*	Job Number	08.02.85
60.00	I	264 2690##JOB#	08.02.85
61.00	I*	Date Job Entered the System(MMDDYY)	08.02.85
62.00	I	270 2750∰#JDT	08.02.85
63.00	I*	Date of Program Execution (MMDDYY)	08.02.85
64.00	I	276 2810##EDT	08.02.85
65.00	I*	Time of Program Execttion (HDMMSS)	08.02.85
66.00	I	282 2870##ETM	08.02.85
67.00	I*	Date Program Was Compiled	08.02.85
68.00	I	288 2930##CDT	08.02.85
69.00	I*	Time Program Was Compiled	08.02.85
70.00	I	294 2990##CTM	08.02.85
71.00	I*	Level of the Compiler	08.02.85
72.00	I	300 303 ##LVL	08.02.85
73.00	I*	Source File Name	08.02.85
74.00	I	304 313 ##SRCN	08.02.85
75.00	I*	Source Library Name	08.02.85
76.00	I	314 323 ##SRCL	08.02.85
77.00	I*	Source File Member Name	08.02.85
78.00	I	324 333 ##SRCM	08.02.85
79.00	I*	Unused	08.02.85
80.00	I	334 429 **FLR2	09.06.87

D.2 Copy Module - Retrieve Soft Coding Data Structure - I00SC

Figure D-3 Copy Module - Retrieve Soft Coding Data Structure report (1 of 7)

98330	JD Edwards World	
I00SC	.JDFSRC61 Print Source Code	Date - 27.01.17
Seq No.		Mod Date
		Mod Date
1.00	I*******************	12.02.88
2.00	I* This is part of a composite common subroutine. In	12.02.88
3.00	I* order for the subroutine to work correctly, the	12.02.88
4.00	I* RPG program must /COPY in the following members:	12.02.88
5.00	I* 100SC, C00SC	12.02.88
6.00	I*	25.04.88
7.00	I* NOTE: The "SRVFDS" file information data structure must	25.04.88
8.00	I* be specified in a continuation record for the display	25.04.88
9.00	I* file (File Description Specification "KINFDS").	25.04.88
10.00	I*	25.04.88
11.00	I*************************************	12.02.88
12.00	I* PROGRAM INPUT SPECIFICATIONS AND DATA STRUCTURES	12.02.88
13.00	I*	12.02.88
15.00	I* IIOOSC DS	12.02.88
15.00	IIOOSC DS T*	12.02.88
17.00	I* Function keys 1 thru 32.	17.02.88
18.00	1 Function keys I thru 32.	12.02.88
19.00	I 1 32 IOOSCF	17.02.88
20.00	14	25.04.88
21.00	I* Function - End of Job	25.04.88
22.00	1 1 *FEOJ	17.02.88
23.00	I*	25.04.88
24.00	I* Function - Clear Screen	25.04.88
25.00	I 2 2 FFCLR	17.02.88
26.00	I*	25.04.88
27.00	I* Function - Help	25.04.88
28.00	I 3 3 #FHELP	17.02.88
29.00	I*	25.04.88
30.00	I* Function - Values List Display	25.04.88
31.00	I 4 4 #FVLST	17.02.88 25.04.88
33.00	I* Function - Roll Up	25.04.88
34.00	I 5 5 #FROLU	17.02.88
35.00	I 2 2 BEKOTO	25.04.88
36.00	I* Function - Boll Down	25.04.88
37.00	I 6 6 #FROLD	17.02.88
38.00	I*	25.04.88
39.00	I* Function - Window Screen Left	25.04.88
40.00	I 7 7 #FWLFT	17.02.88
41.00	I*	25.04.88
42.00	I* Function - Window Screen Right	25.04.88
43.00	I 8 8 #FWRGT	17.02.88
44.00	I*	25.04.88
45.00	I* Function - Question Mark/Cursor Sensitive Help	25.04.88
46.00	I 9 9 €FOMEK	17.02.88
47.00	I*	25.04.88
48.00	I* Function - Display Error Message(s)	25.04.88
49.00	I 10 10 #FERRD	17.02.88
50.00	I* I* Function - Exit to Address Book	25.04.88
52.00	I Function - Exit to Address Book I 11 11 #FAD	25.04.88 17.02.88
53.00	1 11 11 FFAB	25.04.88

Figure D-4 Copy Module - Retrieve Soft Coding Data Structure report (2 of 7)

54.00	I*	Function - Exit to Name Search	25.04.88
55.00	Ι.	12 12 #FMS	17.02.88
56.00 98330	I*	JD Edwards World	25.04.88
100SC	.JDFSRC	50 Edwards World 61 Print Source Code	Date - 27.01.17
Seq No.	COPIANC	or Frinc Boarde Code	Date - 27.01.17
and mor			Mod Date
57.00	I*	Function - Return to Previous Panel/Menu	25.04.88
58.00	I	13 13 #FPRV	17.02.88
59.00	I.		25.04.88
60.00	1*	Function - Display Alternate Fanel	25.04.88
61.00	1.	14 14 #FALT	17.02.88 25.04.88
		Prophing - Built to Display Molid Prophing Name	19.09.89
63.00 64.00	I*	Function - Exit to Display Valid Function News 15 15 #FKEYS	19.09.89
65.00		TO TO MAKETO	25.04.88
66.00	ī*	Function - Return to Primary Menu	25.04.88
67.00	Ŧ	16 16 *FPCM	17.02.88
68.00	I*		25.04.88
69.00	I*	Function - Hard Copy Print	25.04.88
70.00 71.00	I	17 17 #FPRT	21.04.88
71.00	ī*		25.04.88
72.00	I×	Function - Variable by Program (1 thru 15)	25.04.88
73.00	I	18 18 #F01	21.04.88
74.00	I	19 19 #F02	21.04.88
75.00 76.00	1	20 20 #F03 21 21 #F04	21.04.88 21.04.88
77.00	÷	22 22 #705	21.04.88
78.00	÷	23 23 ⊕F06	21.04.88
79.00	i	24 24 #F07	21.04.88
80.00		25 25 #F08 26 26 #F09	21.04.88
81.00	Ī	26 26 ∰109	21.04.88
82.00	I	27 27 #F10	21.04.88
83.00	I	28 28 #F11	21.04.88
84.00 85.00	Ξ	29 29 #F12 30 30 #F13	21.04.88 21.04.88
85.00	Ξ.	30 30 #F13 31 31 #F14	21.04.88 21.04.88
87.00	1	31 31 #F14 32 32 #F15	21.04.88
88.00	ž*	32 32 4213	17.02.88
89.00	ī*	Selections 1 thru 24.	17.02.88
90.00	±*		17.02.88
91.00	I	33 BO IOOSCS	17.02.88
92.00	I*		25.04.88
93.00	I.	Selection - Select/Work With	25.04.88
94.00	I	33 340#55ELC	07.06.88
95.00	I*		25.04.88
96.00		Selection - Change/Revise	25.04.88
97.00 98.00	I*	35 360#SCIING	07.06.88 25.04.88
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101.00	I*	** ************************************	25.04.88
102.00		Selection - Delete/Cancel	25.04.88
103.00	I	39 400#SDELT	07.06.88
104.00	ī*		25.04.88
105.00		Selection - Display/View	25.04.88
106.00	I.	41 420#SDSPL	07.06.88
107.00	1.	Selection - Print/Release	25.04.88 25.04.88
109.00	£.	Selection - Fint/Nelease 43 440#SPRNT	07.06.88
110.00	1.		25.04.88
111.00		Selection - Rename	25.04.88
112.00		45 460#SRENM	07.06.88
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			Mod Date
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114.00		Selection - Display Attributes	25.04.88
115.00	I	47 480#SDATR	07.06.88
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117.00	1.4	Selection - Variable by Program (1 thru 16)	25.04.88
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124.00	I	61 620#507	07.06.88
125.00	I	63 640#508	07.06.88
126.00	I	65 660±509	07.06.88
127.00	Ī	67 680#510	07.06.88
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Figure D-5 Copy Module - Retrieve Soft Coding Data Structure report (3 of 7)

140.00 T File Information Data Structure for Pamel/Report file.	120.00	**		07 01 01
141.00 File Information Data Structure for PaceA/Report file.	139.00			07.01.91
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217.00 I 22.02.88 218.00 I* 22.02.88 219.00 I* Output buffer length (zero if no buffer allocated) 22.02.88 220.00 I 221.00 I* 0143 1460@0BLN 22.02.88 221.00 I* 22.02.88	215.00	1.		
218.00 I* 22.02.88 219.00 I* Output buffer length (zero if no buffer allocated) 22.02.88 220.00 I B 143 14608@OBLN 22.02.88 221.00 I* 22.02.88		I*	Input buffer length (zero if no buffer allocated)	
219.00 I* Output buffer length (zero if no buffer allocated) 22.02.88 220.00 I B 143 1460@@DELN 22.02.88 221.00 I* 22.02.88		I.	B 139 142088IBLN	
220.00 I B 143 1460@@OBLN 22.02.88 221.00 I* 22.02.88		1.		
221.00 I* 22.02.88			Output buffer length (zero if no buffer allocated)	
	220.00		B 143 146088OBLN	
222.00 I* Device Class (supplied only if ODP type is DS or SP) 22.02.88		I*	and a story to the last of the state of the	
		I*	Device Class (supplied only if ODP type is DS or SP)	
223.00 I* 1 = Display 22.02.88	222.00	7.0	1 = Display	22.02.88
= - Magnay 22.02.00	222.00	1		
224.00 I* 2 = Printer 22.02.88	222.00 223.00 224.00	I*	2 = Printer	22.02.88
224.00 I* 2 = Printer 22.02.88 98330 JD Edwards World	222.00 223.00 224.00 98330	1*	JD Edwards World	
224.00 I* 2 = Printer 22.02.88 98330 JD Edwards World 1005C .JDFSRC61 Print Source Code Date = 27.01.17	222.00 223.00 224.00 98330 1005C	1*	JD Edwards World	
		I*	Device Class (supplied only if ODP type is DS or SP)	22.02.88 22.02.88
= - Maple y	222.00	1		
224.00 I* 2 = Printer 22.02.88	222.00 223.00 224.00	I*	2 = Printer	22.02.88
224.00 I* 2 = Printer 22.02.88 98330 JD Edwards World	222.00 223.00 224.00 98330	1*	JD Edwards World	
224.00 I* 2 = Printer 22.02.88 98330 JD Edwards World	222.00 223.00 224.00 98330 1005C	1*	JD Edwards World	

Figure D-6 Copy Module - Retrieve Soft Coding Data Structure report (4 of 7)

1			
225.00 226.00	ī.	3 = Card	22.02.88
226.00	I*	4 = Diskette	22.02.88
227.00	ī,	5 = Tape n 147 14808@DVCL	22.02.88
229.00		B 14/ 1400660ACD	22.02.88
230.00	I*	Diskette location(value from 1 to 23 = slot location)	22.02.88
231.00	i	149 151 88DKLC	22.02.88
232.00	î*	143 131 660000	22.02.88
233.00	7.4	Number of rows on display screen or lines on a page	22.02.88
234.00	ī	B 152 15308@VDRW	22.02.88
235.00	T#		22.02.88
236.00	1*	Number of columns on display screen or printed line	22.02.88
237.00	Ī	Number of columns on display screen or printed line B 154 15508@VDCM	22.02.88
238.00	I*		22.02.88
239.00	I*	Number of records in file at time of open	22.02.88
240.00	I	B 156 15908@RCMT	22.02.88
241.00 242.00	I*		22.02.88
242.00	I*	Access type (only supplied if ODP type is DB)	22.02.88
243.00	I*	KU = Keyed, Unique	22.02.88
244.00	I*	Number of records in file at time of open B 156 15908@RCMT Access type (only supplied if ODF type is DB) KU = Keyed, Unique KF = Keyed, FIFO W/Duplicate keys KI = Keyed, LIFO W/Duplicate keys AR = ARTIVAL sequence	22.02.88
245.00	1,	KI = Keyed, LIFO W/Duplicate keys	22.02.88
247.00	1	AK = Arrival sequence 160 161 88ACTY	22.02.88
247.00	ī*	100 101 BEACTI	22.02.88
249.00	1*	Dunlingto has indication (D-Ellaund D-Mat allaund)	22.02.88
250.00	1.	Duplicate key indication (D=Allowed U=Not allowed) 162 162 99DUPK	22.02.88
250.00	1*	*OT TOT SECURE	22.02.88
252.00	ī*	Source file indication (Y=Source file)	22.02.88
253 00	-	163 163 985RCI	22.02.88
254.00	î*	The san comme	22.02.88
255.00	1*	User file control block parameters in effect	22.02.88
256.00	I	164 173 @@FCDP	22.02.88
257.00	I*		22.02.88
258.00	I*	User file control block overrides in effect	22.02.88
259.00	I	174 183 @@FCBO	22.02.88
260.00	I*	Offset to volume label fields of open feedback	22.02.88
261.00	1.	Offset to volume label fields of open feedback	22.02.88
262.00			22.02.88
263.00		B 184 1850@@OVLF	22.02.88
264.00	I*		22.02.88
265.00	I*	Number of records to be transferred on file open	22.02.88
266.00	I	B 186 1870@@RTFO	22.02.88
267.00 268.00	I*		22.02.88
		Overflow line number (printer files only)	22.02.88
269.00		B 188 1890@@OFIN	22.02.88
	1*	UNUSED	
271.00 272.00	1*	UNUSED 190 240 00FLR2	22.02.88 22.02.88
273.00	I*	130 540 66kFKS	22.02.88
274.00	1*	Offset to device dependent feedback information	22.02.88
275.00	1.	Offset to device dependent reedback information	22.02.88
275.00		laugust of faughack information for specific	22 02 88
276.00	I*	layout of feedback information for specific	22.02.88
276.00 276.00 277.00	1,	Offset to device dependent feedback information (See Appendix D of the CFF Programmer's Guide for layout of feedback information for specific devices) B 241 24208800FR	22.02.88
276.00 277.00	1,	layout of feedback information for specific devices) B 241 242080DFB	
276.00 277.00 278.00 279.00	1,	B 241 2420@@ODFB	22.02.88 22.02.88
276.00 277.00 278.00	1,	B 241 242000DFB Put operation count	22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330	1. 1. 1. 1.	B 241 242080DFB Put operation count JD Edwards World	22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C	1,	B 241 242000DFB Put operation count	22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330	1. 1. 1. 1.	B 241 242080DFB Put operation count JD Edwards World	22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 IOOSC Seq No.	1. 1. 1. 1.	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17
276.00 277.00 278.00 279.00 280.00 98330 1005C Seq No.	I* I* I* I* I* I* I* I* I*	B 241 242080DFB Put operation count JD Edwards World	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date
276.00 277.00 278.00 279.00 280.00 98330 1009C Seq No.	I*	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@FUTC	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C Seq No.	I* I	B 241 2420@@DFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C Seq Mo. 281.00 282.00 283.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@FUTC	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 IOOSC Seq No. 281.00 282.00 283.00 284.00 284.00	I* I	B 241 2420@@OFFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@GETC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C Seq No. 281.00 282.00 283.00 284.00 285.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@FUTC Get operation count B 247 2500@@GETC PutGet operation count	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Data 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C 3eq No. 281.00 282.00 283.00 284.00 285.00 285.00 285.00	I* I	B 241 2420@@OFFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@GETC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1009C Seq No. 281.00 282.00 283.00 285.00 285.00 288.00 288.00	JDFSRC61	B 241 2420000FB Put operation count JD Edwards World Print Source Code B 243 246000FUTC Get operation count B 247 250000GETC PutGet operation count B 251 254000FGC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Data 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1000C 3eq No. 281.00 282.00 284.00 285.00 286.00 288.00 288.00	I* I	B 241 242080DFB Put operation count JD Edwards World Print Source Code B 243 246088PUTC Get operation count B 247 250088CETC PutGet operation count B 251 254088PGC Non-I/O operation count (update of subfile records)	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1009C 5mq Mo. 281.00 282.00 283.00 285.00 285.00 285.00 288.00 289.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Data 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 280.00 98330 1005C Seq No. 281.00 282.00 283.00 284.00 285.00 285.00 285.00 285.00 285.00 285.00 285.00 285.00 285.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 28330 1005C 5mq No. 281.00 282.00 284.00 285.00 286.00 287.00 288.00 299.00 299.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Data 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 98330 1005C 3eq No. 281.00 282.00 284.00 285.00 285.00 285.00 285.00 289.00 299.00 299.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
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276.00 277.00 278.00 279.00 280.00 28330 1005C 5mq No. 281.00 282.00 284.00 285.00 286.00 287.00 289.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Data 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 279.00 280.00 283.30 1005C 5mq No. 281.00 282.00 283.00 284.00 285.00 287.00 288.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 283.00 283.00 283.00 283.00 283.00 285.00 285.00 285.00 289.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88 22.02.88
276.00 277.00 278.00 280.00 283.30 1005C Seq No. 281.00 283.00 284.00 285.00 285.00 287.00 289.00 299.00 299.00 299.00 291.00 293.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88
276.00 277.00 278.00 279.00 283.00 283.00 1005C 54q No. 281.00 282.00 284.00 285.00 286.00 287.00 289.00 299.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2550@@NICC	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 5mq No. 281.00 282.00 283.00 285.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation [Last operation requested] X'01' = Get X'02' = Get MySubfile record number X'03' = Fut New X'05' = PutGet X'07' = Update X'08' = PutGet X'09' = Torce End of Data X'09' = Release	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 54q No. 283.00 283.00 284.00 285.00 287.00 287.00 287.00 287.00 299.00	I* I	B 241 242080DFB Put operation count JD Edwards World Print Source Code B 243 246088PUTC Get operation count B 247 250088CETC PutGet operation count B 251 254088PGC Non-I/O operation count (update of subfile records)	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C Seq No. 281.00 283.00 283.00 285.00	I* I	D 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@CETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2560@@NIOC Current operation (Last operation requested) X'01' = Get X'02' = Get M/Subfile record number X'03' = Get by key X'03' = Put X'06' = PutGet X'06' = PutGet X'06' = PutGet X'06' = PutGet X'06' = Polente X'09' = Force End of Data X'00' = Release 259 260 @@COFR	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.30 1005C 54q No. 283.00 283.00 284.00 285.00 287.00 287.00 287.00 287.00 299.00 290.00 290.00 290.00 290.00 290.00 290.00 290.00	I* I	D 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@CETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2560@@NIOC Current operation (Last operation requested) X'01' = Get X'02' = Get M/Subfile record number X'03' = Get by key X'03' = Put X'06' = PutGet X'06' = PutGet X'06' = PutGet X'06' = PutGet X'06' = Polente X'09' = Force End of Data X'00' = Release 259 260 @@COFR	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 283.00 283.00 282.00 283.00 284.00 285.00 287.00	I* I	D 241 2420@@ODFD Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation [Last operation requested] X'01' = Get X'02' = Get MySubfile record number X'03' = Fut New X'05' = PutGet X'07' = Update X'08' = PutGet X'08' = PutGet X'09' = Torce End of Data X'00' = Release 259 260 @@COPR Name of record format just pronessed: . Specified on the I/O request, or	22.02.88 22.02.88 22.02.88 22.02.88 Date - 27.01.17 Mod Date 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 54q No. 281.00 282.00 283.00 284.00 285.00 287.00 285.00 287.00 289.00 290.00 290.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 20	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@CETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 250@@NIOC Current operation (Last operation requested) X'01' = Get X'02' = Get W/Subfile record number X'03' = Get by key X'05' = PutGet X'07' = Update X'08' = PutGet X'08' = Delete X'08' = Torce End of Data X'00' = Release 259 260 @@COFR Name of record format just promessed: . Specified on the I/O request, or . Determined by default promessating	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 5eq No. 283.00 283.00 283.00 284.00 285.00	I* I	D 241 2420@@ODFD Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation [Last operation requested] X'01' = Get X'02' = Get MySubfile record number X'03' = Fut New X'05' = PutGet X'07' = Update X'08' = PutGet X'08' = PutGet X'09' = Torce End of Data X'00' = Release 259 260 @@COPR Name of record format just pronessed: . Specified on the I/O request, or	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 54q No. 281.00 282.00 283.00 284.00 285.00 287.00 287.00 289.00 290.00 290.00 290.00 300.00 300.00 300.00 300.00 300.00 300.00	I* I	Put operation count JD Edwards World Print Source Code B 243 246000FDTC Get operation count B 247 250000CETC PutGet operation count B 251 254000FDC Non-I/O operation count (update of subfile records) B 255 250000CC Current operation (Last operation requested) X'01' = Get X'02' = Get W/Subfile record number X'03' = Get by key X'05' = PutGet X'06' = PutGet X'07' = Update X'08' = Delete X'08' = Torce End of Data X'00' = Release 259 260 00CPR Name of record format just promessed: Specified on the I/O request, or Datermined by default promessaing 261 270 00CFPT	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 283.00 283.00 282.00 283.00 283.00 284.00 285.00	I* I	D 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation (Last operation requested) X'012' Get W/Subfile record number X'02' Get W/Subfile rec	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 54q No. 281.00 282.00 283.00 284.00 285.00 287.00 287.00 288.00 289.00 290.00 290.00 200.00 200.00 200.00 200.00 20	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@FUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation (Lest operation requested) X'01' = Get X'02' = Get W/Subfile record number X'03' = Get by key X'05' = PutGet X'06' = PutGet X'07' = Update X'08' = Delete X'08' = Delete X'08' = Selesse 259 260 @@COFR Name of record format just processed: . Specified on the I/O request, or . Determined by default processing 261 270 @@CFMT Device Class Position 271	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 283.00 283.00 282.00 283.00 284.00 285.00 285.00 287.00 285.00 287.00	I* I	B 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@FUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation (Lest operation requested) X'01' = Get X'02' = Get W/Subfile record number X'03' = Get by key X'05' = PutGet X'06' = PutGet X'07' = Update X'08' = Delete X'08' = Delete X'08' = Selesse 259 260 @@COFR Name of record format just processed: . Specified on the I/O request, or . Determined by default processing 261 270 @@CFMT Device Class Position 271	22.02.88 22.02.88
276.00 277.00 278.00 283.00 283.00 1005C 54q No. 281.00 282.00 283.00 284.00 285.00 287.00 287.00 288.00 289.00 290.00 290.00 200.00 200.00 200.00 200.00 20	I* I	D 241 2420@@ODFB Put operation count JD Edwards World Print Source Code B 243 2460@@PUTC Get operation count B 247 2500@@GETC PutGet operation count B 251 2540@@PGC Non-I/O operation count (update of subfile records) B 255 2580@@NIOC Current operation (Last operation requested) X'012' Get W/Subfile record number X'02' Get W/Subfile rec	22.02.88 22.02.88

Figure D-7 Copy Module - Retrieve Soft Coding Data Structure report (5 of 7)

314.00	I*	X'03' = Card	22.02.88
315.00	I*	X'04' = Diskette	22.02.88
316.00	I*	Y'05' = Tane	22.02.88
317.00	I*	X'03' = Card X'04' = Diskette X'05' = Tape Position 272 (If position 271 contains X'00') X'00' = Monkeyed file X'01' = Keyed file Position 272 (If position 271 not X'00') X'00' = 5250 Display station, 960 characters X'01' = System consols, 1024 characters X'02' = 5256 Frinter X'03' = 5211/322 Frinter X'04' = MFGU X'04' = MFGU X'05' = 3411/3410 Tape	22.02.88
	I*	Addition %1% (it bosition %11 contains %, nn.)	
318.00	1.	X.00. = NoukeAed Ille	22.02.88
319.00	I*	X'01' = Keyed file	22.02.88
320.00		Position 272 (If position 271 not X'00')	22.02.88
321.00	T*	X'00' = 5250 Display station, 960 characters	22.02.88
322.00	I*	X'01' = System console, 1024 characters	22.02.88
323.00		Y/02/ - 5256 Printer	22.02.88
		MI ON - SOLE (SOLE PLINE)	22.02.88
324.00		X.03. = 5211/3202 Printer	
325.00		X'04' = MFCU	22.02.88
326.00	I*	X'05' = 3411/3410 Tape	22.02.88
327.00	I*	X'05' = 3411/3410 Tape X'06' = 72M Diskette X'07' = 5250 Display station, 1920 characters	22.02.88
328.00	I*	X'07' = 5250 Display station, 1920 characters	22.02.88
329.00		X'08' = Spooled	22.02.88
	* "	A do - apostes	
330.00	I	271 272 00DCLS	22.02.88
331.00	I*		22.02.88
332.00	ī*	Device name (Last completed operation)	22.02.88
333.00	I	273 282 @@DNAM	22.02.88
334.00	T*		22.02.88
335.00		Toronth of last 7/2 second second	
335.00	±^	Length of last I/O record processed B 283 286000LIOL	22.02.88
		B 203 2000@ELOL	22.02.00
98330		JD Edwards World	
IOOSC	.JDFSRC61	Print Source Code	Date - 27.01.17
Seq No.			
oog no.			Mod Date
337.00	I*		22.02.88
338.00		Routing data information	22.02.88
339.00	I	287 366 @@RDTA	22.02.88
340.00	I*		22.02.88
341.00		Current line number within a printer page	22.02.88
342.00	Ī	B 367 368099CINO	22.02.88
342.00		B 201 200066CTNO	22.02.88
344.00		AID character indication: X'F1' = Enter/Rec Adv X'F5' = Roll up	22.02.88
345.00	I*	X'F1' = Enter/Rec Adv	22.02.88
346.00	I*	X'F5' = Roll up	22.02.88
347.00	I*	X'FA' = Roll down	22.02.88
348.00	I*	Y/Est - Drint	22.02.88
		Y. Ac Actua	
349.00		X'FB' = Nome	22.02.88
350.00	I*	X'BD' = Clear	22.02.88
351.00	I*	X'F3' = Help	22.02.88
352.00		X'F1' = Enter/Rec Adv X'F5' = Roll up X'F4' = Roll down X'F6' = Print X'F6' = Home X'F0' = Home X'F0' = Home X'F0' = Hub Enter X'31' = Command Key 01 X'32' = Command Key 02 X'33' = Command Key 03 X'34' = Command Key 03 X'34' = Command Key 06 X'35' = Command Key 06 X'35' = Command Key 06 X'36' = Command Key 06 X'37' = Command Key 08 X'36' = Command Key 08 X'37' = Command Key 08 X'37' = Command Key 09 X'38' = Command Key 09 X'38' = Command Key 10 X'38' = Command Key 10 X'38' = Command Key 11 X'36' = Command Key 11 X'36' = Command Key 11 X'36' = Command Key 13 X'62' = Command Key 13 X'62' = Command Key 14 X'63' = Command Key 14 X'63' = Command Key 15 X'64' = Command Key 16 X'65' = Command Key 17 X'66' = Command Key 17 X'66' = Command Key 17 X'66' = Command Key 18 X'67' = Command Key 18 X'67' = Command Key 19 X'68' = Command Key 20 X'69' = Command Key 20 X'69' = Command Key 21 X'68' = Command Key 21	22.02.88
353.00	I*	X'31' = Command Nev 01	09.08.91
354.00	7.0	Y/32/ - Command You 02	22.02.88
255 00		2/ 22/ - Command Pay 02	22.02.88
355.00	1.0	A. 33 Command Rey 03	
356.00	1*	X'34' = Command Ney 04	22.02.88
357.00	I*	X'35' = Command Key 05	22.02.88
358.00	I*	X'36' = Command Key 06	22.02.88
359.00	T#	Y/32/ - Command New 02	22.02.88
360.00		Y/38/ = Command New OB	22.02.88
361.00	**	X-30 - Command May 00	22.02.88
	1*	X'39' = Command Key 09	
362.00	I*	X'3A' = Command Key 10	22.02.88
363.00	I*	X'3B' = Command Key 11	22.02.88
364.00	I*	X'3C' = Command Key 12	22.02.88
365.00	T*	X'B1' = Command Key 13	22.02.88
366.00	T.*	Y'B2' = Command Yey 14	22.02.88
300.00		A DE - COMMAND MAY 14	22.02.00
367.00	1.	x so = Command Key 15	22.02.88
368.00	I*	X'B4' = Command Key 16	22.02.88
369.00	I*	X'B5' = Command Key 17	22.02.88
370.00		X'B6' = Command Key 18	22.02.88
371.00	I*	X'B7' = Command Nev 19	22.02.88
372.00		Y'B8' - Command New 20	22.02.88
		NAME - Command Name 21	
373.00	1*	A my - Command May 21	22.02.88
	1.	A BA' = Command Key 22	
375.00		X'BB' = Command Ney 23	22.02.88
376.00	I*	X'B9' = Command Key 21 X'BA' = Command Key 22 X'BB' = Command Key 23 X'BC' = Command Key 23	22.02.88
377.00	I	369 369 88AID	22.02.88
378.00	1*		22.02.88
379.00	ī*	Cursor line in hex (display files only)	22.02.88
380.00		370 370 00CURL	
	I	370 370 @@CURL	22.02.88
381.00	I*		22.02.88
382.00	Ĭ,	Cursor position in hex (display files only) 371 371 00cmp	22.02.88
383.00	Ī	371 371 89CURP	22.02.88
384.00			22.02.88
		Makes the simple definition of the street of the	
385.00		Note: By simply defining a 2 byte binary field	22.02.88
386.00		and moving the cursor line/position field	22.02.88
387.00	T#	into it right justified you will have the	22.02.88
388.00	ī*	numerical value of the line/position field.	22.02.88
389.00	I*	Remember the binary field must be set to	22.02.88
390.00	I*	zero prior to the move.	22.02.88
391.00	I*		22.02.88
392.00	I*	Number of records transmitted	22.02.88
98330		JD Edwards World	
I005C	.JDFSRC61	Print Source Code	Date - 27.01.17
Seg No.		TIME BOREST WAR	
and my.			Mod Date
			NOG DECE
393.00	I	B 371 372088RTRM	22.02.88
	I*		22.02.88
394.00			22.02.88
394.00	I*	UNUSED	
395.00	1*		
395.00 396.00	I	UNUSED 373 375 00FLR4	22.02.88
395.00 396.00 397.00	I*	373 375 @@FLR4	22.02.88 22.02.88
395.00 396.00	I		22.02.88

Figure D–8 Copy Module - Retrieve Soft Coding Data Structure report (6 of 7)

399.00 I B 376 3770885RRN 22.02.88 24.00.00 I* C2.02.88 22.02.88 401.00 I* RRN of first subfile record on display 22.02.88 402.00 I B 378 3790885RCN 22.02.88 22.02.88 403.00 I* C2.02.88 22.02.	
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409.00 I* 22.02.88	
410.00 I* Data base file key 22.02.88	
411.00 I 401.528 @RRMY 22.02.88 412.00 I*	
412.00 1* 30.08.89	
413.00 1" 30.08.89 414.00 1" Cursor Sensitive Nelp Values 30.08.89	
415.00 I* 30.08.89	
416.00 IIOOCSR DS 30.08.89 417.00 I* 30.08.89	
417.00 I* 30.08.89 418.00 I* Returned field name. 30.08.89	
419.00 I 1 0 ##FLDN 30.08.89	
420.00 I* Returned value. 30.08.89	
421.00 I 11 40 ##RVAL 29.09.89	
422.00 I* Returned description. 30.08.89	
423.00 I 41 70 ##RDSC 29.09.89	
424.00 I* Returned location: Row. 31.08.89	
425.00 I 71 730##RROW 29.09.89	
425.00 I* Returned location: Column. 31.08.89	
427.00 I 74 760##RCOL 29.09.89	
428.00 I* Dictionary Field Name (non-blank=override) 03.11.89	
429 00 T 27 86 ##DTDT 29 09 89	
430 00 TX Returned Display File Formet	
431.00 I 57 96 **RPMT 29.09.89	
432.00 I* RPG Indicator Array 29.09.89	
433.00 I 97 195 ##IN 29.09.89	
434.00 I* Override Reporting System (Jargon) 06.10.92	
435.00 I 196 199 ###SYR 06.10.92	
436.00 I* 30.08.89	
437.00 I* 27.11.89	
438.00 I* Nidden Fields for Subfile Attribute Indicators 27.11.89	
439.00 78	
440.00 ISHIN DG 27.11.89	
441.00 I 1 1 SHIN01 27.11.89	
442.00 I 2 2 SHINO2 27.11.89	
443.00 I 3 3 SHINO3 27.11.89	
444.00 I 4 4 SNINO4 27.11.89	
445.00 I 5 5 SMINOS 27.11.89	
446.00 I 6 6 SHING 27.11.89	
447.00 I 7 7 SHIMO7 27.11.89	
448.00 I 8 8 SMINOS 27.11.89	
98330 JD Edwards World	
IOOSC .JDFSRC61 Print Source Code Date - 27.01.17	
Seq Mo.	
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Figure D-9 Copy Module - Retrieve Soft Coding Data Structure report (7 of 7)

489.00	I 49 49 SHIN49	27.11.89
490.00	I 50 50 SHIM50	27.11.89
	I 51 51 SHIN51	27.11.89
	I 52 52 SHIM52	27.11.89
493.00	I 53 53 SHIN53	27.11.89
494.00	I 54 54 SHIN54	27.11.89
495.00	I 55 55 SHIN55	27.11.89
496.00	I 56 56 SHIN56	27.11.89
497.00	I 57 57 SHIN57	27.11.89
498.00	I 58 58 SHIN58	27.11.89
499.00	I 59 59 SHIN59	27.11.89
500.00	I 60 60 SHINGO	27.11.89
501.00	I 61 61 SHIN61	27.11.89
502.00	I 62 62 SHIN62	27.11.89
503.00	I 63 63 SHIN63	27.11.89
504.00	I 64 64 SHIN64	27.11.89
98330	JD Edwards World	
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505.00	I 65 65 SHIN65	27.11.89
506.00	I 66 66 SHIN66	27.11.89
507.00	I 67 67 SHIN67	27.11.89
508.00	I 68 68 SHIN68	27.11.89
509.00	I 69 69 SHIN69	27.11.89
510.00	I 70 70 SHIN70	27.11.89
511.00	I 71 71 SHIN71	27.11.89
512.00	I 72 72 SHIN72	27.11.89
513.00	I 73 73 SHIN73	27.11.89
514.00	I 74 74 SHIN74	27.11.89
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539.00	I 99 99 SHIN99	27.11.89
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545.00	I' IIOOMDE DS I' Subfile Mode	09.06.93
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547.00	I* Subfile Relative Record Number	09.06.93
548.00	I 2 60***RNO	09.06.93
549.00	I* Cursor Location - Record Format	09.06.93
550.00		09.06.93
	I* Cursor Location - Field Name	09.06.93
	I 17 26 ***CFL	09.06.93
553.00	I*	09.06.93
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D.3 Item Master Information - P928011

Figure D-10 Item Master Information report (1 of 32)

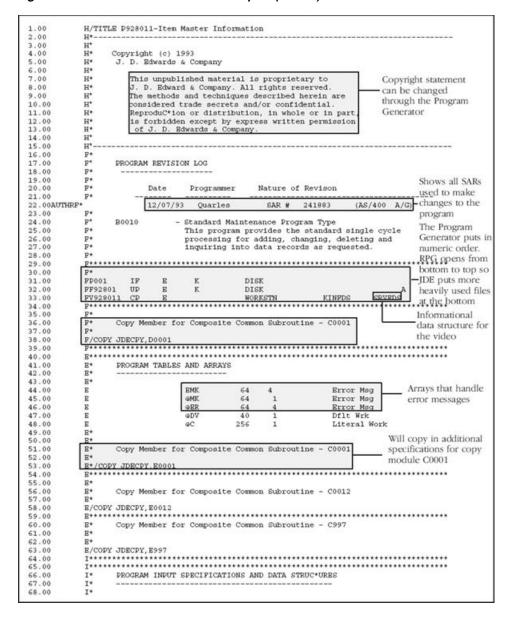
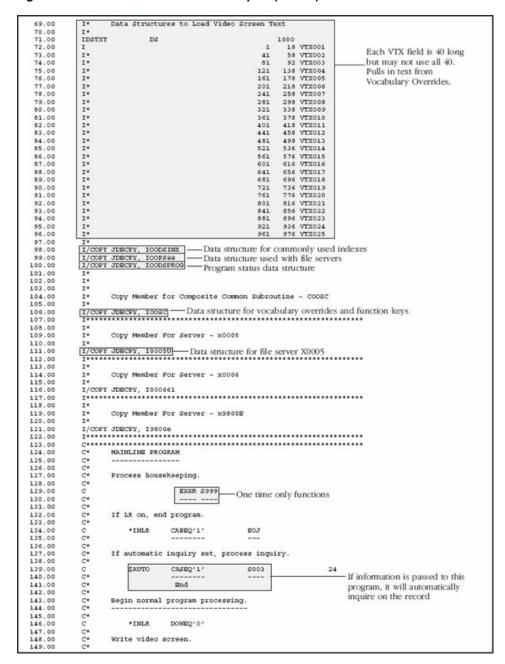
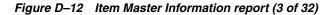


Figure D-11 Item Master Information report (2 of 32)





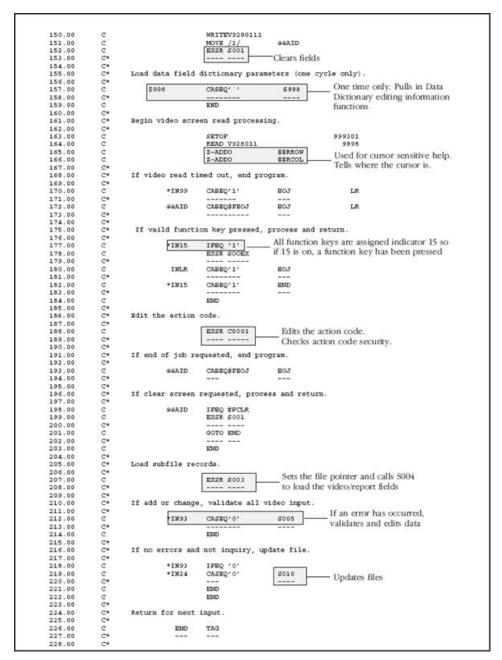


Figure D-13 Item Master Information report (4 of 32)

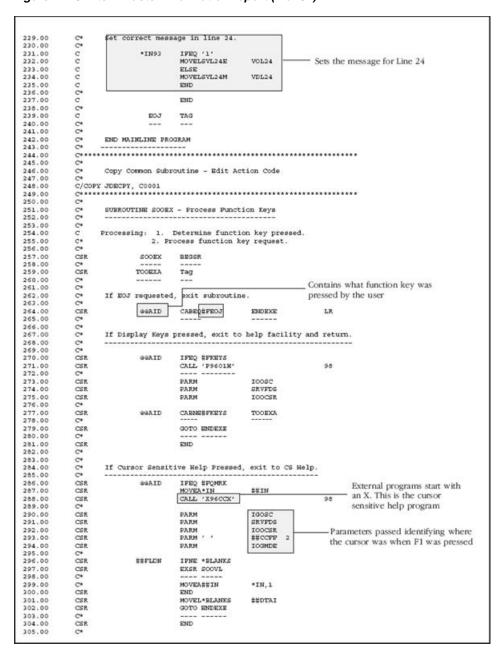


Figure D-14 Item Master Information report (5 of 32)

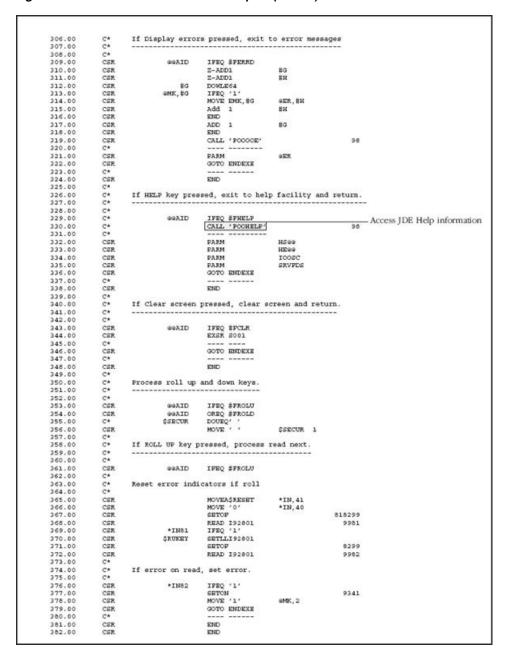


Figure D-15 Item Master Information report (6 of 32)

385.00	CSR		END			
	C*			72 87		
386.00	C*	If ROLL DOWN key	pressed, process	read prior.		
387.00	C*				•	
388.00	C*	<u>0.05320</u> 0.0	2012/04/05 18:00 22:01			
389.00	CSR	@@AID	IPEQ #FROLD			
390.00	C*	777				
391.00	C*	Reset error indi	cators if roll			
392.00	C*		SUBJECT VARIABLES	0.022200000		
393.00	CSR		MOVEASRESET	*IN, 41 *IN, 40		
394.00	CSR		MOVE 'O'	*IN, 40		
395.00	CSR		SETOF		818299	
396.00	CSR	0.000	READPI92801		9991	
397.00	CSR	*IN91	IPEQ '1'			
398.00	CSR	SRDKEY	SETLLI92801			
399.00	CSR		SETOF		8299	
400.00	CSR		READPI92801		9992	
401.00	C.	**				
402.00	C.	If error on read	, set error.			
403.00	C*	72/200				
404.00	CSR	*IN92	IPEQ '1'			
405.00	CSR		SETON		9341	
406.00	CSR		MOVE '1'	aMK, 2		
407.00	CSR		GOTO ENDEXE			
408.00	C.					
409.00	CGR		END			
410.00	CSR		END			
411.00	CSR		END			
412.00	C*					
413.00	C*	Load video scree				
414.00	C.					
415.00	C.	0099900	0.400/0.000/0.00			
416.00	CSR	GGAID	IPEQ #FROLU			
417.00	CSR	esAID	OREQ #FROLD			
418.00	C*			0.000		
419.00	C*	Release record l	ock or report re	cord in use.		
420.00	C*					
421.00	CSR	*IN99	IMBD ,0,			Program that will display a
422.00	CSR		EXCPTUNLOCK			record lock window when a
423.00	CSR		RLGR			
424.00	CSR		CALL 'P98BLCK'		91	record in use error is
425.00	C*					encournteres
426.00	CER		PARM	##PEDS		
427.00	CSR		SETON		9341	
428.00	CSR		MOVE '1'	amk, 6		
429.00	CSR		GOTO ENDEXE			
430.00	C.					
431.00	CSR		RND			
432.00	C*					
433.00	C*					
434.00	C*	Cost Center secu	rity edit.			
435.00	C*		A Property of the Control of the Con	(C1000000000000000000000000000000000000		
436.00	CSR		MOVE' F92801	'#PILE		
437.00	CSR		MONBTÖXXCC	@MCU		
	CSR		IPNE '1'			
438.00		#AUT				
438.00	CSR	#AUI #FAUI	ANDNE'1'			
438.00 439.00 440.00	CSR		ANDNE'1' EXSR C0000			
438.00 439.00 440.00 441.00	CSR CSR		ANDNE'1' EXSR C0000			
438.00 439.00 440.00 441.00 442.00	CSR C* CSR	#FAUT	ANDNE'1' EXSR C0000 END			
438.00 439.00 440.00 441.00 442.00 443.00	CSR C* CSR CSR	#FAUT	ANDNE'1' EXSR COOOO IPNE '1'			
436.00 439.00 440.00 441.00 442.00 443.00 444.00	CSR C* CSR CSR CSR	#AUI #FAUI	ANDNE'1' EXSR COOOD IPNE '1' ANDNE'1'			
438.00 439.00 440.00 441.00 442.00 443.00 444.00	CSR C* CSR CSR CSR CSR	#FAUT	ANDNE'1' EXSR C0000 IPNE '1' ANDNE'1' ANDNE'1'			
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00	CSR C* CSR CSR CSR CSR CSR	#AUI #FAUI	ANDNE'1' EXSR C0000 END IPNE '1' ANDNE'1' ANDNE'1' MOVE '1'	\$SECUR		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	ANDNE'1' EXER C0000 END IPNE '1' ANDNE'1' ANDNE'1' MOVE '1' END	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 446.00 446.00 447.00 448.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUI #FAUI	ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' END CASEQ''	\$SECUR SOO4		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	ANDME'1' EXER COOOD END IPME '1' ANDME'1' ANDME'1' MOVE '1' END CASEQ''	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' END CASEQ''	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00 450.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' AMDNE'1' END CASBQ'' END	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	ANDME'1' EXER COOOD END IPME '1' ANDME'1' ANDME'1' MOVE '1' END CASEQ''	Manager Co.		
438.00 439.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00 450.00 451.00 452.00 453.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' AMDNE'1' END END END	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00 452.00 453.00 453.00 454.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END '1' AMDNE'1' AMDNE'1' MOVE '1' END CASEQ'' END END	Manager Co.		
438.00 439.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 447.00 449.00 450.00 451.00 451.00 452.00 454.00 454.00 455.00	CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' AMDNE'1' END END END	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00 452.00 453.00 454.00 455.00 455.00	CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' AMDNE'1' END CASEQ'' END END END	Manager Co.		
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00 451.00 452.00 452.00 453.00 454.00 455.00 456.00 57.00	CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' MOVE '1' END END END END END	Manager Co.		
438.00 439.00 441.00 441.00 442.00 443.00 444.00 445.00 445.00 447.00 445.00 445.00 450.00 451.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00	CSR	#AUT #AUT #FAUT #MAUT \$SECUR	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' AMDNE'1' END END END END END END END	Manager Co.		Could not find a match in the
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 446.00 447.00 450.00 45	CSR	#AUT #FAUT #FAUT	AMDNE'1' EXER COOOD END IPNE '1' AMDNE'1' AMDNE'1' MOVE '1' END CASBQ'' END	Manager Co.		
438.00 449.00 440.00 441.00 441.00 442.00 443.00 444.00 445.00 445.00 445.00 455.00 455.00 455.00 455.00 455.00 455.00 456.00 456.00 456.00 456.00 456.00 456.00 456.00	CSR	#AUT #AUT #FAUT #MAUT \$SECUR	AMDNE'1' EXER COOOD END END IPNE'1' AMDNE'1' AMDNE'1' END END END END IPNE '1' END	Manager Co.	0193	Function Key Definitions for
438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 446.00 449.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 460.00 460.00 460.00 460.00	CSR	#AUT #AUT #FAUT #MAUT \$SECUR	AMDNE'1' EXER COOOD END IPNE '1' AMDNE'1' AMDNE'1' MOVE '1' END CASBQ'' END	Manager Co.	0193	Punction Key Definitions for the function key pressed, so
438.00 449.00 440.00 441.00 441.00 442.00 443.00 444.00 445.00 445.00 445.00 455.00 455.00 455.00 455.00 455.00 455.00 456.00 457.00 456.00	CSR	#AUT #AUT #FAUT #MAUT \$SECUR	AMDNE'1' EXER COOOD END END INNE'1' AMDNE'1' MOVE'1' END	Manager Co.	0193	Could not find a match in the Function Key Definitions for the function key pressed to program displays bivalid
439.00 440.00 441.00 441.00 442.00 443.00 444.00 444.00 444.00 444.00 445.00 449.00 449.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 450.00 460.00 460.00 460.00 460.00 460.00 460.00 460.00	CSR	#AUT #AUT #FAUT #MAUT \$SECUR	AMDNE'1' EXER COOOD BND IPNE '1' AMDNE'1' AMDNE'1' MOVE '1' END CASEQ'' END END END END END END END END END EN	Manager Co.	0193	Function Key Definitions for

Figure D–16 Item Master Information report (7 of 32)

66.00		***************		*******************	**
67.00	C*	Comm. Comm		an Cashunday St A	
69.00	C.	copy common Subro	outine - Coat Cent	er Secturity Check	
69.00	C*				
70.00	C/C01	PY JDECPY, C0000			For current consisting halo
71.00					** For cursor sensitive help.
72.00	C*				Information was retrieved in
73.00	C.	SUBROUTINE SGCVI	- Cursor Control	Return Values	program X96CCX. The retrieve
74.00	C*				information is returned to the
75.00	C*				
76.00	C*	By format, find	the field to upat	e and move in the	video fields in this subroutine
77.00	C+	returned value.	If the format is	a subfile, the record	
78.00		to change is four			
79.00	C*				
80.00	CSR	SOOVL	BEGGR		
81.00	C.				
82.00	C*				
33.00	CSR	##RVAL	IFEQ 'BLANK'		
84.00	CS	HANAND	MOVE *BLANK	##RVAL	
85.00	C*		END - BLICKE	##KYNE	
	C.		END		
86.00	C*				
87.00	C*	Return values for	or fields in forma	t V9280111	
00.88	C*				
89.00	CSR	##RPMT	IPEQ 'V9280111'		
90.00	C*	ve.ex=cc500			
		A semantic	TREO (T. T. T. C.)	¥.	
91.00	CSR	##PLDN	IFEQ 'ACTION	A CONTROL	
92.00	CSR		MOVE##RVAL	ACTION	
93.00	CSR		GOTO ENDOVL		
94.00	C.				
95.00	CSR		END		
96.00	C*				
97.00	CSR	##PLDN	IPEQ 'VDXIT	*	
98.00	CSR		MOVEL##RVAL	VDXIT	
99.00	CSR		GOTO ENDOVL		
00.00	C*				
01.00	CSR		END		
02.00	C*				
03.00	CSR	##FLDN	IFEQ 'VDXDS	,	
04.00	CSR		MOVEL##RVAL	VDXDS	
05.00	CSR		GOTO ENDOVL	20000000	
06.00	C*				
07.00	CSR		END		
08.00	C		2110		
09.00	CSR	##PLDN	IPEQ 'VDXCC		
10.00	CSR	##PLUM	MOVEL##RVAL	VDXCC	
11.00	CSR		GOTO ENDOVL	YEACC	
12.00	C*		GOTO EMPOVE		
13.00	CSR		END		
			END		
14.00	C*				
15.00	CSR	##FLDN	IMEG , ADXIA	Marcon or	
16.00	CSR		MOVEL##RVAL	VDXTY	
17.00	CRS		GOTO ENDOVL		
18.00	C*				
19.00	CSR		END		
20.00	C*				
21.00	CSR	##PLDN	IPEQ 'VDXDT	Same v	
22.00	CSR		MOVEL##RVAL	VDXDT	
23.00	CSR		GOTO ENDOVL		
24.00	C*				
25.00	CSR		END		
26.00	C*				
27.00	CSR	##PLDN	IFEQ 'VDXQT		
28.00	CSR	ST-500 = 500 C	MOVEL##RVAL	VDXQT	
29.00	CSR		GOTO ENDOVL	CONTROL OF	
0.00	C*				
31.00	CSR		END		
32.00	C*		535		
33.00	CSR	##PLDN	IFEQ 'VDXUM	,	
34.00	CSR	##21100	MOVEL##RVAL	VDXDM	
35.00	CSR		GOTO ENDOVL	7 mm 1471	
36.00	C.				
37.00	CSR		END		
38.00	C*				
39.00	CSR	##PLDN	IPEQ 'VDX001	There was a second	
10.00	CSR		MOVEL##RVAL	VDX001	
	CSR		GOTO ENDOVL		
41.00	C+				

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543.00	CSR		END		
544.00	C*				
545.00	CSR	##FLDN	IABÓ , ADX 005	*	
546.00	CSR		MOVEL##RVAL	VDX002	
547.00	CSR		GOTO ENDOVL		
548.00	C+				
549.00	CSR		END		
550.00	C*	4 PM PAI	TERRO (INDVAAD		
551.00	CSR	#FLDN	IAES , ADX 003		
552.00	CSR		MOVEL##RVAL	VDX003	
553.00	CSR		GOTO ENDOVVL		
554.00	C.				
555.00	CSR		END		
556.00	C+			w.	
557.00	CSR	##FLDN	IPEQ 'VDX004	VDX004	
559.00	CSR		MOVEL##RVAL GOTO ENDOVL	ADYONA	
561.00	CSR		END ENDOVL		
562.00	C*		END		
563.00	CSP	##FLDN	IPEQ 'VDX005		
564.00	CSR	## 2 TT/18	MOVEL##RVALL	VDX005	
565.00	CSR		GOTO ENDOVL	10000	
566.00	C*		SOLO MIDOTE		
567.00	CER		END		
568.00	CER		END		
569.00	C.				
570.00	CSR	ENDOVL	ENDSR		
571.00		*************		***********	**********
572.00	C+				
573.00	C.	SUBROUTINE SOOL	- Clear Fields		
574.00	C*				
575.00	C*				
576.00	C*	Processing: 1.	Reset all vide	o screen and da	ata file fields
577.00	C*		for next trans	action.	
578.00	C+	2.	Clear action co		ested.
579.00	C.	7600			367637100
580.00	CSR	S001	BEGGR		
581.00	C.				
582.00	C*				
583.00	C*	Reset fields for	next transactio	n.	
584.00	C+			88	Clears all the fields in the reco
585.00	CSR	NOKEY	CLEARI92801		
586.00	CSR		MOVE *BLANK	###CLF	format for F92801
587.00	CSR		MOVE *BLANK	###CRC	
588.00	CER		Z-ADD*ZERO	##RCOL	
589.00	CSR		Z-ADD*ZERO	##RROW	
590.00	CSR		MOVE *BLANK	VDXCC	
591.00	CSR		MOVE *BLANK	VDXDS	
592.00	CSR		MOVE *BLANK	VDXD3	
593.00	CSR		MOVE *BLANK	VDXIT	
594.00	CSR		MOVE *BLANK	VDXQT	
595.00	CSR		MOVE *BLANK	VDXTY	Clears the video fields
596.00	CSR		MOVE *BLANK	VDXUM	
597.00	CSR		MOVE *BLANK	VDX001	
598.00	CSR		MOVE *BLANK	VDX002	
	-		NAMES AND DESCRIPTION		
599.00	CSR		MOVE *BLANK	VDX003	
600.00	CSR		MOVE *BLANK	VDX004	
600.00					
600.00 601.00 602.00	CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVELSVL24M	VDX004 VDX005 VDL24	
600.00 601.00 602.00 603.00	CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK	VDX004 VDX005	
600.00 601.00 602.00 603.00 604.00	CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVELSVL24M	VDX004 VDX005 VDL24	
600.00 601.00 602.00 603.00 604.00 605.00	CSR CSR CSR CSR C*	Clear action cod	MOVE *BLANK MOVE *BLANK MOVELSVL24M MOVE ' '	VDX004 VDX005 VDL24 #IN37 1	
600.00 601.00 602.00 603.00 604.00 605.00 606.00	CSR CSR CSR CSR C*		MOVE *BLANK MOVE *BLANK MOVELSVL24M MOVE ' '	VDX004 VDX005 VDL24 #IN37 1	
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00	CSR CSR CSR CSR C* C*	Clear action cod	MOVE *BLANK MOVE *BLANK MOVELSVL24M MOVE ' ' e only if clear IPEQ #PCLR	VDX004 VDX005 VDL24 @IN37 1	
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00	CSR CSR CSR CSR C* C* C* CSR		MOVE *BLANK MOVE *BLANK MOVELSVL24M MOVE * . e only if clear IPEQ #PCLR MOVE *ALL'O'	VDX004 VDX005 VDL24 @IN37 1 screen action.	
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00 609.00	CSR CSR CSR CSR C* C*		MOVE *BLANK MOVE *SLANK MOVELY24M MOVE ' ' e only if clear IPEQ #FCLR MOVE *ALL'O' MOVEA\$RESET	VDX004 VDX005 VDL24 @IN37 1	
606.00 607.00 608.00 609.00 610.00	CSR CSR CSR C* C* C* CSR CSR CSR CSR		MOVE *BLANK MOVE *SLANK MOVELSYL24M MOVE *	VDX004 VDX005 VDL24 @IN37 1 screen action. SRESET *IN,41 ACTION 1	
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00 609.00 610.00	CSR CSR CSR CSR C* C* CSR CSR CSR CSR		MOVE *BLANK MOVE *SLANK MOVELY.24M MOVE ' ' e only if clear IPEQ #PCLR MOVE *ALL'O' MOVEA\$RESET MOVE ' ' Z-ADD*ZERO	VDX004 VDX005 VDL24 #IN37 1 screen action.	if the user presses the function
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00 609.00 610.00 611.00 612.00	CSR CSR CSR CSR C* C* CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVES*L24M MOVE ' ' e only if clear IPEQ #PCLR MOVE *ALL'0' MOVEA;REGET MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. SRESET *IN,41 ACTION 1 QXXIT VC0001	if the user presses the function key to clear the screen. We we
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00 609.00 610.00 611.00 612.00	CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE * / * e only if clear IPEQ #PCLR MOVE *ALL'0' MOVEASRESET MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 WIN17 1 screen action. SRESET *IN,41 ACTION 1 QXXII	if the user presses the function key to clear the screen. We we to save certain information like
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 609.00 610.00 611.00 612.00 613.00	CSR CSR CSR CSR C* C* CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE: *LANK MOVE: *LANK MOVE *ALL'O' MOVEA; *BLAL'O' MOVEA; *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. SRESET *IN,41 ACTION 1 QXXIT VC0001	if the user presses the function key to clear the screen. We we
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 609.00 610.00 611.00 612.00 613.00 614.00	CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE * BLANK MOVE * / e only if clear IPEQ #PCLR MOVE *ALL'O' MOVEASRESET MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 @IN37 1 screen action. \$RESET *IN,41 ACTION 1 QXXIT VC0001 VC0001	if the user presses the function key to clear the screen. We we to save certain information like key fields and descriptions of
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 609.00 610.00 611.00 612.00 612.00 614.00	CSR CSR CSR CSR C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE: *LANK MOVE: *LANK MOVE *ALL'O' MOVEA; *BLAL'O' MOVEA; *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. **RESET *IN,41 ACTION 1 QXXIT VC0001 VC0002 VC00002	if the user presses the function key to clear the screen. We we to save certain information like key fields and descriptions of they don't get cleared everyting.
600.00 601.00 602.00 603.00 605.00 605.00 606.00 607.00 609.00 610.00 611.00 612.00 614.00 614.00	CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE * BLANK MOVE * / e only if clear IPEQ #PCLR MOVE *ALL'O' MOVEASRESET MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. SRESET *IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0003 VC0004	if the user presses the function key to clear the screen. We we to save certain information like key fields and descriptions of
600.00 601.00 602.00 603.00 604.00 605.00 607.00 607.00 609.00 610.00 611.00 612.00 613.00 614.00 615.00	CSR CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVESTAPE e only if clear IPEQ #PCLR MOVE *ALL'O' MOVERSEST MOVE *BLANK MOVE *BLANK	VDX004 VDX005 VDL24 @IN37 1 screen action. *RESET *IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0003 VC0004	if the user presses the function key to clear the screen. We we to save certain information like key fields and descriptions of they don't get cleared everyting.
600.00 601.00 602.00 603.00 605.00 605.00 606.00 607.00 608.00 610.00 611.00 612.00 613.00 614.00 615.00 615.00 615.00	CSR CSR CSR C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE *SLANK MOVE *SLANK MOVE * ' ' e only if clear IPEQ #PCLR MOVE *ALL'O' MOVEA; PRESET MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. **SRESET *IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0002 VC0004 VC0005 VC0006	if the user presses the function key to clear the screen. We we to save certain information lik key fields and descriptions of they don't get cleared everytir
600.00 601.00 602.00 603.00 604.00 605.00 607.00 609.00 610.00 611.00 612.00 613.00 614.00 615.00 615.00 615.00 615.00 615.00	CSR CSR CSR C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE * ' ' e only if clear IPEQ #PCLR MOVE *ALL' 0' MOVERSEST MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. **SRESET **IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0003 VC0004 VC0005 VC0006 VC0007 VC0006	if the user presses the function key to clear the screen. We we to save certain information lik key fields and descriptions of they don't get cleared everytir
600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 609.00 610.00 611.00 612.00 613.00 614.00 615.00 617.00 617.00 618.00 619.00	CSR CSR CSR C* C* CSR		MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE *BLANK MOVE ' ' e only if clear IPEQ #PCLR MOVE *ALL' 0' MOVEASREST MOVE *BLANK	VDX004 VDX005 VDL24 #IN37 1 screen action. **SRESET **IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0003 VC0004 VC0005 VC0006 VC0007 VC0006	if the user presses the function key to clear the screen. We we to save certain information lik key fields and descriptions of they don't get cleared everytir
600.00 601.00 602.00 602.00 603.00 604.00 605.00 607.00 609.00 610.00 611.00 611.00 612.00 612.00 615.00 616.00 616.00 617.00 618.00 619.00 619.00 619.00	CSR CSR CSR C* C* CSR		MOVE *BLANK MOVE*BLANK MOVE*BLANK MOVE*CAM MOVE / / e only if clear IPEQ #PCLR MOVE *ALL'0' MOVEASRESET MOVE *BLANK MOVE *BLAN	VDX004 VDX005 VDL24 #IN37 1 screen action. **SRESET **IN,41 ACTION 1 QXXIT VC0001 VC0002 VC0003 VC0004 VC0005 VC0006 VC0007 VC0006	they don't get cleared everyting

Figure D-18 Item Master Information report (9 of 32)

```
Sets the file pointer and
626.00
627.00
                                                                                                    edit the key
628.00
629.00
630.00
               55555
                      Processing: 1. Clear error indicators and arrays.
2. Load input keys.
3. Validate Master file key.
4. Release master file record lock.
5. Load video screen output on inquiry.
631.00
632.00
               C*
CSR
C*
633.00
                                  8003
                                             BEGER
635.00
636.00
637.00
              C*
C*
CSR
638.00
                       Load data field dictionary parameters (one cycle only).
                                  $999
                                              CASEQ' '
640.00
                                                                    5998
641.00
               CSR
C*
C*
642.00
643.00
                                              RND
                       Reset error indicators and arrays.
644.00
645.00
646.00
               CCR
                                              MOVE *ALL'O'
                                                                    SRESET 39
                                                                    $REST1 63
*IN, 41
@MK, 2
647.00
648.00
               CSR
                                              MOVE *BLANK
MOVEASRESET
649.00
               CSR
                                              MOVEASREST1
650.00
               CSR
                                              CLEARGER
651.00
652.00
               C*-----
               0000
                       Load video input field for - Item ID
653.00
654.00
655.00
               CSR
                                              MOURAUDIT
               CSR
C*
CSR
656.00
657.00
                                              Z-ADD@NUMR
658.00
                                                                     SNBROS SO
               CSR
C*
C*
C*
CSR
659.00
                                              MOVE SNBROS
                                                                   OXXIT
660.00
661.00
                      Automatic Next Number for - Item ID
662.00
                               *IN21
                                              IPEO '1'
663.00
664.00
               CSR
                                  VDXIT
                                              ANDEQ * BLANK
665.00
666.00
667.00
               CSR
                                              SETON
DOWEQ'1'
                                                                               91
                                 *IN91
                                              MOVE NEXIT
                                                                  PSIDX 2
               CSR
               CSR
C*
CSR
CSR
CSR
668.00
                                                                                 82
669.00
671.00
                                               PARM PSIDX
PARM *ZERO
672.00
                                                                   #NXTNO 80
                                              MOVE #NXTNO
MOVE #NTXTNO
SETLLF92801
673.00
               CSR
                                                                    OXXIT
674.00
675.00
676.00
               CSR
                                                                    VDXIT
                                  QXXXIT
               CER
                                               END
677.00
               CSR
                                              END
678.00
679.00
               CSR
C*
C*
                                              CHAIN192801
680.00
681.00
                      Cost Center security edit.
692.00
693.00
694.00
695.00
                                              MOVEL'P92901
                                                                   "#FILE
               CSR
                                              MOVELQXXCC
IFNE '1'
               CSR
CSR
C*
CSR
                                            ANDNE'1'
EXSR C0000
686.00
                                  #PAUT
687.00

    Checks cost center security

688.00
689.00
                                              IFNE '1'
                                   #AUT
690.00
               CSR
691.00
692.00
693.00
694.00
               CSR
C*
CSR
                                              ANDNE'1'
ANDNE'1'
                                  SPAUT
                                              MOVE '1'
                                                                   $$SECR 1
               CSR
C*
695.00
696.00
697.00
698.00
                      If security violation, set error condition.
                                              IPEQ '1'
MOVE '1'
                                $$SECR
                                                                   aMK. 9
699.00
                                                                                  9341
700.00
                                              SETON
```

Figure D-19 Item Master Information report (10 of 32)

01.00	CSR		MOVE ' '	\$\$SEFCR :	1	
02.00	CSR		GOTO END003			
03.00	C*		END			
05.00			END			
	C*	-44 15 - 5	read and action co	a.		
06.00	C*	Edit result of	read and accion of	cae.		
07.00	C.	*IN98				
	CER	*INAR	IPEQ '1'			** ******
09.00	CSR	*IN21	COMP 'O'			41 *error*
10.00	CSR		COMP '1'			22 (2000)
11.00	CSR	*IN21				41 *error*
12.00	CSR		END			
13.00	C*	** 1-41 11	on, invalid key i		are and a second	
14.00	C*	II indicator 41	on, invalid key i	or action co	ode.	
16.00	CER	*IN41	IPEO '1'			
17.00	CSR	-1941		eMK, 2		
18.00	CSR		SETON	work, 2	93	
19.00	CSR		END		2.2	
20.00	C*					
21.00		If indicator on	on, record in use			
22.00	C+	Indicator 99	on, record in day			
22.00	CSR	*TWGO	IPEQ '1'			
24.00	CSR	-7933	CALL 'P98RLCK'		91	
25.00	CSR		CALL PARKICK		9.7	
26.00	CSR		DADM	##PSDS		
27.00	CSR		MOVE '1'	amk, 6		
28.00	CSR		SETON	with, o	9341	
29.00	CSR		END		2341	
30.00			END			
31.00	C*					
32.00		If not inquire	skip remainder of	subroutine		
33.00	C+	and middle in	and remarked of		***	
34.00	CSR	*IN24	CABBO'0'	ENDO03		
35.00	CSR	-1944	annex v	2000000		
36.00						
37.00	C*					
		Release record	lock on master fil			
38.00 39.00 40.00 41.00 42.00 43.00 44.00 45.00	C*			177		
40.00	CER	*INGG	IPEQ 'O'			_JDE uses this or SETLL
41.00	CSR	(IN99	ANDBO'0'	-		
42.00	CSR		EXCPTUNLOCK			to release record locks
43.00	CSR		END			
44.00	C*					
45.00	CSR	If errors, ski	p remainder of sub	routine.		
46.00	C*					
47.00	CER	*IN93	CABBQ'1'	END003		
48.00	C*	1000000				
49.00						
50.00	C*					
51.00		Move data base	information to vic	leo screen.		
52.00	C*					Moves information to
53.00	CSR		EXSR SO04			
54.00	CSR					the video/report fields
						-3
		END003				
55.00	CSR					***
55.00 56.00			**************		***********	
55.00 56.00 57.00 58.00	C****					
55.00 56.00 57.00 58.00	C****		routine - Right Ju			
55.00 56.00 57.00 58.00 59.00	C*	Copy Common Sub				
55.00 56.00 57.00 58.00 59.00	C**** C* C* C/COP	Copy Common Sub	routine - Right Ju	stify Numeri	c Fields	
55.00 56.00 57.00 58.00 59.00 60.00 61.00	C**** C* C* C/COP	Copy Common Sub		stify Numeri	c Fields	
55.00 56.00 57.00 58.00 59.00 60.00 61.00	C**** C* C* C/COP	Copy Common Sub	routine - Right Ju	stify Numeri	c Fields	
55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00	C**** C* C/COP	Copy Common Sub	routine - Right Ju	stify Numeri	c Fields	
55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00	C**** C* C/COP C**** C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE SO04	routine - Right Ju	stify Numeri	c Fields	
55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00	C**** C* C/COP C**** C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE SO04	routine - Right J	stify Numeri	c Fields	
55.00 56.00 57.00 59.00 59.00 60.00 61.00 62.00 63.00 64.00 66.00 67.00	C**** C* C/COP C*** C* C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen	Data	c Fields	••
55.00 56.00 57.00 59.00 59.00 60.00 61.00 62.00 63.00 64.00 66.00 67.00	C**** C* C/COP C*** C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen	Data formation to fields re al	o video screer	••
55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 66.00 66.00 66.00 66.00	C**** C* C/COP C*** C* C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen	Data formation to fields re al	o video screer	••
55.00 56.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 66.00 66.00 66.00 66.00 66.00	C**** C* C/COP C*** C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen therefore numeric	Data aformation to fields re all information	o video screet	••
55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 66.00 67.00 68.00 69.00 70.00	C**** C* C	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in all video screen therefore numeric processed through	Data formation to fields re al information subroutine	o video screen	••
55.00 56.00 57.00 59.00 60.00 61.00 62.00 63.00 64.00 66.00 66.00 66.00 67.00 68.00 69.00 70.00	C**** C* C/COP C*** C* C* C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen therefore numeric processed through proper decimals a	Data formation to fields re al information is ubroutine and provide e	o video screen	••
55.00 56.00 58.00 59.00 60.00 61.00 61.00 62.00 63.00 64.00 65.00 66.00 67.00 69.00 70.00 71.00	C**** C* C/COP C*** C* C* C* C* C* C* C* C* C*	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in all video screen therefore numeric processed through	Data formation to fields re al information is ubroutine and provide e	o video screen	••
55.00 56.00 58.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 66.00 67.00 66.00 67.00 67.00 67.00 67.00	C**** C* C	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen therefore numeric processed through proper decimals a	Data formation to fields re al : information to subroutine and provide el :	o video screen pha and nust be coult to set diting for	••
55.00 56.00 57.00 58.00 59.00 50.00 51.00 52.00 63.00 55.00 66.00 68.00 69.00 70.00 69.00 70	C*************************************	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen therefore numeric processed through proper decimals i display on screen	Data formation to fields re al information is subroutine und provide el.	o video screen pha and n must be could to set diting for	••
55.00 56.00 56.00 59.00 60.00 61.00 62.00 63.00 64.00 66.00 66.00 67.00 69.00 77.00 77.00 77.00 77.00 77.00 77.00	C*************************************	Copy Common Sub Y JDECPY, C0012 SUBROUTINE S004	Load Video Screen Move data base in All video screen therefore numeric processed through proper decimals a display on screen Date fields must	Data information to fields re all information approxime and provide end provide end financial f	o video screen pha and nust be coult to set diting for	••

Figure D-20 Item Master Information report (11 of 32)

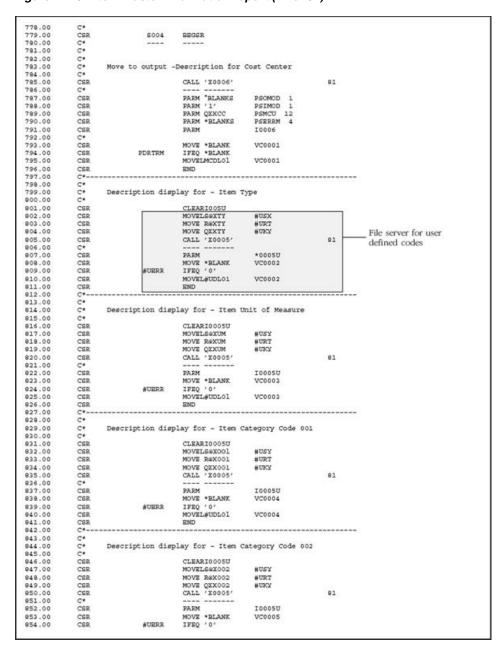


Figure D–21 Item Master Information report (12 of 32)

55.00	CSR		MOVEL#UDL01	VC0005		
56.00	CSR		END			
57.00	C*					er .
58.00	C*					
59.00	C*	Description dist	olay for - Item Ca	stegory Code	003	
60.00.	CER				5555	
61.00	CER		CLEARI0005U			
62.00	CER		MOVELS@X003	BUSY		
63.00	CSR		MOVE RAXOOS	#URT		
64.00	CSR		MOAE ÖXX003	#UXY		
65.00	C*		CALL 'X0005'		91	
66.00	CSR			Charles and Artistance		
67.00	CSR		PARM	I0005U		
68.00	CSR		MOVE *BLANK	VC0006		
69.00	CER	#UERR	IPEQ '0'			
70.00	CER			VC0005		
71.00	CSR		END			
72.00	C*					8
73.00	C*					
74.00	C*	Description disp	play for - Item Ca	ategory Code	004	
75.00	C*					
76.00	CSR		CLEARI0005U			
77.00	CER		MOVELS@X004	#USY		
78.00	CSR		MOVE RWX004	#URT		
79.00	CER		MOVE QXX004	#UKY		
80.00	C*		CALL 'X0005'		91	
81.00	CER					
82.00	CSR		PARM	100050		
83.00	CSR		MOVE *BLANK	VC0007		
84.00	CSR	WUERR	IMBD .O.			
85.00	CSR	WORK	MOVEL#UDL01	VC0007		
86.00	CER		END	100001		
87.00			Market Commercial Comm			
	C*					
88.00	C*					
		Description disp	olay for - Item C	stegory code	005	
90.00	C*					
91.00	CSR		CLEARI0005U			
92.00	CGR		MOVELS@X005	#USY		
93.00	CER		MOVE REXOOS	#URT		
94.00	CER		MOVE QXX005	#UXY		
95.00	C*		CALL 'X0005'		91	
96.00	CSR					
97.00	CER		PARM	100050		
98.00	CER		MOVE *BLANK	VC0008		
99.00	CSR	#UERR	IABO .O.			
00.00	CSR		MOVEL#UDL01	VC0008		
01.00	CER		END			
02.00	C*					e.
03.00	C*					
04.00	C*	Move to output .	- Cost Center			
05.00	C*					
06.00	CSR		MOVE *BLANK	#SINBR		
07.00	CSR		MOVELOXXCC	#SINBR		
08.00	CSR		MOVE TEXCC	#DTYP		
09.00	CER		MOVE WEXCC	#EWRD		
10.00	CSR		MOVE BEXCC	#BC		manufacture to Committee
11.00	CSR		MOVE PAXOC	#DSPD		Editing information
12.00	CSR		MOVE PEXCC			retrieved in S998
12.00	CSR		MOVE JEXCC	#DATD		
				#ALR		
14.00	CSR		MOVE ,	#ECOR		
15.00	CSR		MOVE ' '	#DCOR		Copy module to edit field
16.00	CSR		EXSR C00161			
17.00	CSR	7 (3250-007			0.0	for use on screen/report
18.00	CSR	#ALR	IPEQ 'L'	12000000		
19.00	CER		MOVEL#SINBR	VDXCC		
20.00	CSR		ELSE			
21.00	CSR		MOVE #SINBR	VDXCC		
22.00	CSR		END			
23.00	C*					
24.00	C*					
25.00	C*	Move to output -	- Description			
26.00	C*					
27.00	CSR		MOVELQXXDS	VDXDS		
28.00						
29.00	C*					
30.00	C*	Move to Output -	- Date Last Ship			
	C*	pac				
31.00						

Figure D-22 Item Master Information report (13 of 32)

932.00	CSR		MOVE QXXDT	#SIDAT	6	
933.00	CSR		MOVE *BLANK	#EDAT	8	
934.00	CSR		MOVEL' *JUL	#FFMT	7	
935.00	CSR		MOVEL' *SYSVAL	"#TFMT	7	
936.00	CSR		MOVEL' *SYSVAL	#SKP	7	
937.00	CSR		MOVEL - STSVAL		7	
938.00	CSR		CALL 'X0028	\$KRTST	-	81 External program used to
939.00	Car		CALL AUU20	- 1.0		edit dates.
940.00	CSR		PARM	#SIDAT		euit dates.
	CSR			#EDAT		
941.00 942.00	CSR		PARM	#FFMT		
943.00	CSR		PARM	#TPMT		
			PARM			
944.00	CGR		PARM	#SKP		
945.00	CSR		PARM	SKRIST		
946.00	C*		MOVEL#EDAT	VDXDT		
947.00	C*					
949.00		*************				
949.00	C*	Move to output -	- Item ID			
950.00	C*		MOVE *BLANK	ESINBR		
951.00						
952.00	CSR		MOVELQXXIT	#SINBR		
953.00	CSR		MOVE TEXIT	#DTYP		
954.00	CSR		MOVE Wexit	#EWRD		
955.00	CSR		MOVE EGXIT	#EC		
956.00	CSR		MOVE FEXIT	#DSPD		
957.00	CSR		MOVE G@XIT	#DATD		
958.00	CSR		MOVE JEXIT	#ALR		
959.00	CSR		MOAE , ,	#ECOR		
960.00	CSR		MOVE ' '	#DCOR		
961.00	CSR		EXSR C00161			
962.00	C*					
963.00	CSR	#ALR	IFEQ 'L'			
964.00	CSR		MOVEL#SINBR	VDXIT		
965.00	CSR		ELSE			
966.00	CSR		MOVE #SINBR	VDXIT		
967.00	CSR		END			
969.00	C*					
969.00	C*					
970.00	C*	Move to output -	- Quantity - on h	and		
971.00	C*					
972.00	CSR		MOVE *BLANK	#SINBR		
973.00	CSR		MOVELQXXQT	#SINBR		
974.00	CRR		MOVE TEXOT	#DTYP		
975.00	CSR		MOVE WEXQT	#RWRD		
976.00	CSR		MOVE BEXQT	#EC		
977.00	CSR		MOVE PEXQT	#DSPD		
978.00	CSR		MOVE GEXQT	#DATD		
979.00	CSR		MOVE JEXQT	#ALR		
980.00	CSR		MOVE ' '	#ECOR		
981.00	CSR		MOVE ' '	#DCOR		
982.00	CSR		EXSR C00161	0.000		
983.00	C*					
984.00	CSR	#ALE	IFEQ 'L'			
985.00	CSR		MOVEL#SINBR	VDXQT		
986.00	CSR		ELGE	0.000		
987.00	CSR		MOVE #SINBR	VDXQT		
989.00	CSR		END			
989.00						
990.00	C*					5/3/3/3/3/3/3/5/3/5/3/5/3/3/3/3/3/3/3/3
991.00	C*	Move to output -	- Item Type			
992.00	C*	e co ouchac .	reem ripe			
992.00	CSR		MOVELQXXTY	VDXTY		
994.00						120000000000000000000000000000000000000
995.00	C*					
996.00	C*	Mosse to outract	Them Init of wa	amire.		
996.00	C*	Move to output -	- Trem outt of Me	and the		
999.00	CSR		MOVELQXXUM	17DVTPM		
999.00						
000.00	C*					
000.00	C*	Many to make the	Them Cohenes C	-4- 001		
		Move to output -	- Acem Category O	Jue 001		
002.00	C*		MONTH ATT			
003.00	CSR		MOVE *BLANK	#SINDR		
004.00	CSR		MOVELQXX001	#SINDR		
005.00	CSR		MOVE T@X001	#DTYP		
	CSR		MOVE W@XOOl	#EWRD		
.006.00 .007.00	CSR		MOVE Bexcol MOVE Gexcol	#DC #DATD		

Figure D-23 Item Master Information report (14 of 32)

1010,00	CSR		MOVE Jaxool	#ALR	
1011.00	CSR		MOVE ' '	#ECOR	
1012.00	CSR		MOVE ' '	#DCOR	
1013.00	CSR		EXSR C00161		
1014.00	C*	****			
1015.00	CSR	#ALR	IMEG 'L'		
1016.00	CSR		MOVEL#SINER	VDX0001	
1017.00	CSR		ELSE MOVE #SINBR	VDXIT	
1019.00	CSR		END #SIMBA	ADALL	
1020.00					
1021.00	C*				
1022.00	C*	Move to output	- Them Category	Code 003	
1023.00	C*	nore to datput	reem caregory		
1024.00	CCR		MOVE *BLANK	#CTND8	
1025.00	CSR		MOVELOXX002	ESTNER	
1026.00	CER		MOVE TOXO02	#DTYP	
1027.00	CSR		MOVE Waxoo2	#RWRD	
1028.00	CSE		MOVE RGX002	#EC	
1029.00	CSR		MOVE PRXOD2	#DSPD	
1030.00	CSR		MOVE GGX002	#DATD	
1031.00	CSR		MOVE JOX002	HALR	
1032.00	CSR		MOVE ' '	#ECOR	
1033.00	CSR		MOVE ' '	#DCOR	
1034.00	CSR		EXSR C00161		
1035.00	C*		EAST COOLOR		
1036.00	CSR	#ALR	IFEQ 'L'		
1037.00	CSR	271000	MOVEL#SINBR	VDX002	
1038.00	CSR		RISE		
1039.00	CSR		MOVE #SINBR	VDX002	
1040.00	CSR		END	45.70.555	
1041.00	C*				
1042.00	C*				
1042.00 1043.00	C*	Move to output	- Item Category	Code 993	
1044.00	C*				
1045.00	CSR		MOVE *BLANK	#SINBR	
1046.00	CSR		MOVELQXX003	#SINBR	
1047.00	CSR		MOVE Taxoo3	#DTYP	
1048.00	CSR		MOVE Waxoo3	#EWRD	
1049.00	CSR		MOVE EGXOO3	#EC	
1050.00	CSR			#DGPD	
			MOVE PGX003	#DSPD #DATD	
1051.00	CSR CSR CSR		MOVE Pax003 MOVE Gax003		
	CSR		MOVE PGX003	#DATD	
1051.00 1052.00 1053.00	CSR CSR		MOVE Pax003 MOVE Jax003 MOVE , ,	#DATD #ALE	
1051.00 1052.00	CSR CSR CSR		MOVE Pax003 MOVE Gax003 MOVE Jax003	#DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00 1055.00	CSR CSR CSR CSR		MOVE PAXOOS MOVE GAXOOS MOVE / / MOVE / /	#DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00	CSR CSR CSR CSR CSR	#ALR	MOVE PAXO03 MOVE JAXO03 MOVE ' ' MOVE ' ' EXSR COOl61	#DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00	CSR CSR CSR CSR CSR	#ALR	MOVE PAXO03 MOVE GAXO03 MOVE ' ' MOVE ' ' EXSR COOl61	#DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00 1057.00	CSR CSR CSR CSR CSR CSR	#ALR	MOVE PAXOO3 MOVE JAXOO3 MOVE / , MOVE / , EXSR COO161	#DATD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00 1057.00 1058.00	CSR CSR CSR CSR CSR C* CSR	#ALR	MOVE PaX003 MOVE GAX003 MOVE / / MOVE / / EXSR C00161 	#DATD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00 1057.00 1058.00 1059.00 1060.00	CSR CSR CSR CSR CSR CSR CSR CSR	#ALR.	MOVE PAXOO3 MOVE GAXOO3 MOVE JAXOO3 MOVE ' MOVE ' EXST COO161 IFEQ 'L' MOVEL#SINER ELSE	#DATD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00 1057.00 1058.00 1059.00 1060.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE GAXOO3 MOVE JAXOO3 MOVE ' ' MOVE ' ' EXSR COO161	#DATD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1055.00 1055.00 1056.00 1057.00 1058.00 1059.00 1060.00 1061.00 1062.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END	#DATD #ALR #ECOR #DCOR VDX003	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1057.00 1058.00 1059.00 1060.00 1061.00 1062.00 1063.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END	#DATD #ALR #ECOR #DCOR VDX003	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1057.00 1058.00 1059.00 1060.00 1061.00 1062.00 1064.00 1065.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXSR COO161	#DATD #ALR #ECOR #DCOR VDX003	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1057.00 1059.00 1060.00 1060.00 1062.00 1063.00 1063.00 1065.00	CSR. CSR. CSR. CSR. CSR. CSR. CSR. CSR.		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFRQ 'L' MOVEL#SINER ELSE MOVE #SINER END Item Category MOVE *BLANK	#DATD #ALR #ECOR #DCOR VDX003 VDX003 Code 004 #SINBR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1056.00 1059.00 1060.00 1061.00 1062.00 1064.00 1064.00 1066.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE GAXOO3 MOVE JAXOO3 MOVE ', EXSR COO161	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER	
1051.00 1052.00 1053.00 1054.00 1055.00 1056.00 1057.00 1059.00 1060.00 1061.00 1062.00 1064.00 1064.00 1065.00 1065.00 1066.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ' EXER COO161 IFRQ 'L' MOVE #SINER ELSE MOVE #SINER END Item Category MOVE *BLANK MOVELOXXOO4 MOVE TAXOO4	#DATD #ALR #ECOR #DCOR VDX003 VDX003 Code 004 #SINBR #SINBR #STYP	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1059.00 1069.00 1061.00 1062.00 1064.00 1064.00 1065.00 1067.00	CSR		MOVE PAXOO3 MOVE GAXOO3 MOVE JAXOO3 MOVE ', EXER COO161	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER	
1051.00 1052.00 1053.00 1055.00 1055.00 1055.00 1055.00 1057.00 1058.00 1060.00 1061.00 1062.00 1063.00 1064.00 1065.00 1066.00 1066.00 1066.00	CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFPD 'L' MOVE #SINER ELSE MOVE #SINER END ITEM Category MOVE *BLANK MOVELOXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE WAXOO4	#DATD #ALR #ECOR #DOOR VDX003 VDX003 VDX003 Code 004 #SINDR #CINDR #DTYP #EMAND #EC	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1056.00 1056.00 1059.00 1060.00 1061.00 1063.00 1064.00 1066.00 1066.00 1066.00 1066.00 1066.00 1069.00 1069.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFEQ 'L' MOVEL#SINER ELSE MOVE #SINER END Item Category MOVE *BLANK MOVELQXXOO4 MOVE WAXOO4	#DATD #ALR #BOOR #DOOR VDX003 VDX003 Code 004 #SINBR #SINBR #SINBR #DOTIP #EMRD #EC #DSPD	
1051.00 1052.00 1053.00 1054.00 1054.00 1055.00 1056.00 1057.00 1059.00 1060.00 1061.00 1062.00 1063.00 1064.00 1065.00 1066.00 1067.00 1067.00 1067.00 1069.00	CSR		MOVE PAXOO3 MOVE JAXXOO3 MOVE JAXXOO3 MOVE Y EXSR COO161	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER #DOTE #EMAD #EX #EXP #EMAD #EXP #EMATD	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1056.00 1056.00 1059.00 1060.00 1061.00 1061.00 1064.00 1066.00 1066.00 1066.00 1066.00 1069.00 1070.00 1071.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE / EXER COO161 IFRO /L/ MOVEL#SINER ELSE MOVE #SINER END ITEM Category MOVE *BLANK MOVELQXXOO4 MOVE PAXOO4 MOVE PAXOO4 MOVE PAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE GAXOO4	#DATD #ALR #ECOR #DCOR VDX003 VDX003 Code 004 #SINER #SINER #SINER #DTYP #EMERD #EC #DSPD #DATD #ALR	
1051.00 1052.00 1053.00 1053.00 1055.00 1055.00 1055.00 1057.00 1058.00 1066.00 1066.00 1062.00 1064.00 1064.00 1066.00 1066.00 1069.00 1070.00 1071.00	CSR		MOVE PAXOO3 MOVE JAXXOO3 MOVE JAXXOO3 MOVE ', EXSR COO161	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER #DTYP #EMRD #EC #DSPD #DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1055.00 1057.00 1066.00 1066.00 1061.00 1062.00 1064.00 1065.00 1066.00 1067.00 1069.00 1070.00 1071.00 1072.00 1072.00 1072.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFRO 'L' IFRO 'L' MOVE #SINER ELSE MOVE #SINER END - Item Category ' MOVE PAXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE GAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE ', MOVE ',	#DATD #ALR #ECOR #DCOR VDX003 VDX003 Code 004 #SINER #SINER #SINER #DTYP #EMERD #EC #DSPD #DATD #ALR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1059.00 1066.00 1062.00 1064.00 1064.00 1066.00 1066.00 1069.00 1069.00 1070.00 1071.00 1071.00 1072.00 1074.00 1074.00 1074.00 1075.00	CSR		MOVE PAXOO3 MOVE JAXXOO3 MOVE JAXXOO3 MOVE ', EXSR COO161	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER #DTYP #EMRD #EC #DSPD #DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1057.00 1057.00 1060.00 1061.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1067.00 1070.00 1071.00 1072.00 1074.00 1074.00 1074.00 1075.00	CSE	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END - Item Category ' MOVE *ELANK MOVELQXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE JAXOO4 MOVE ',	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER #DTYP #EMRD #EC #DSPD #DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1053.00 1055.00 1055.00 1055.00 1057.00 1059.00 1068.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1066.00 1066.00 1069.00 1070.00 1070.00 1071.00 1072.00 1072.00 1072.00 1074.00 1075.00	CSR		MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE / EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END Item Category MOVE *BLANK MOVELQXXOO4 MOVE BAXOO4 MOVE BAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE / MOVE / EXER COO161 IFDQ 'L'	#DATD #ALR #ECOR #DOOR VDX003 VDX003 VDX003 Code 004 #SINBR #SINBR #SINBR #UDTIP #ECM #DSPD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1057.00 1059.00 1060.00 1061.00 1062.00 1062.00 1064.00 1064.00 1065.00 1067.00 1067.00 1070.00	CSE	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END - Item Category ' MOVE *ELANK MOVELQXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE JAXOO4 MOVE ',	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINER #SINER #DTYP #EMRD #EC #DSPD #DATD #ALR #ECOR	
1051.00 1052.00 1053.00 1053.00 1055.00 1055.00 1055.00 1057.00 1059.00 1068.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1066.00 1066.00 1069.00 1070.00 1070.00 1071.00 1072.00 1072.00 1072.00 1074.00 1075.00	CSR	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE / EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END Item Category MOVE *BLANK MOVELQXXOO4 MOVE BAXOO4 MOVE BAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE GAXOO4 MOVE / MOVE / EXER COO161 IFDQ 'L'	#DATD #ALR #ECOR #DOOR VDX003 VDX003 VDX003 Code 004 #SINBR #SINBR #SINBR #UDTIP #ECM #DSPD #ALR #ECOR #DCOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1057.00 1066.00 1066.00 1062.00 1062.00 1064.00 1064.00 1066.00 1066.00 1066.00 1067.00 1071.00 1072.00 1072.00 1072.00 1074.00 1074.00 1076.00 1076.00 1076.00 1076.00 1077.00 1076.00 1077.00	CSR. CSR. CSR. CSR. CSR. CSR. CSR. CSR.	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE / EXER COO161 IFDQ 'L' MOVE #SINER ELSE MOVE #SINER END Item Category ' MOVE *BLANK MOVELQXXOO4 MOVE TAXOO4 MOVE TAXOO4 MOVE JAXOO4 MOVE / MOVE	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINBR #SINBR #SINTP #EWRD #EC #DSPD #DATD #ALR #ECOR #DOOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1057.00 1060.00 1061.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1067.00 1067.00 1071.00 1072.00 1074.00 1075.00 1075.00 1075.00 1075.00 1076.00 1077.00 1079.00	CSE	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE / EXER COO161 IFEQ 'L' MOVEL#SINER ELSE MOVE #SINER END THEM Category MOVE *BLANK MOVELQXXOO4 MOVE PAXOO4 MOVE PAXOO4 MOVE PAXOO4 MOVE GAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE JAXOO4 MOVE / MOVE / EXER COO161 IFEQ 'L' MOVEL#SINER ELSE	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINBR #SINBR #SINTP #EWRD #EC #DSPD #DATD #ALR #ECOR #DOOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1057.00 1066.00 1062.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1066.00 1067.00 1070.00 1071.00 1072.00 1072.00 1074.00 1074.00 1075.00 1076.00	CSR. CSR. CSR. CSR. CSR. CSR. CSR. CSR.	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFPD 'L' MOVELASINER ELSE MOVE *SINER END - Item Category ' MOVE *ELANK MOVELQXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE JAXOO4 MOVE ', EXER COO161 IFPD 'L' MOVELASINER ELSE MOVE #SINER END	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINBR #SINBR #SINTP #EWRD #EC #DSPD #DATD #ALR #ECOR #DOOR	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1057.00 1060.00 1061.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1067.00 1067.00 1071.00 1072.00 1074.00 1075.00 1075.00 1075.00 1075.00 1076.00 1077.00 1079.00	CSE	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFPD 'L' MOVELASINER ELSE MOVE *SINER END - Item Category ' MOVE *ELANK MOVELQXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE JAXOO4 MOVE ', EXER COO161 IFPD 'L' MOVELASINER ELSE MOVE #SINER END	#DATD #ALR #ECOR #DOOR VDX003 VDX003 Code 004 #SINDR #SINDR #DTYP #EMAD #EC #DSPD #DATD #ALR #ECOR #DCOR VDX004	
1051.00 1052.00 1053.00 1054.00 1055.00 1055.00 1055.00 1056.00 1057.00 1066.00 1062.00 1062.00 1063.00 1064.00 1064.00 1065.00 1066.00 1066.00 1067.00 1070.00 1071.00 1072.00 1072.00 1074.00 1074.00 1075.00 1076.00	CSR. CSR. CSR. CSR. CSR. CSR. CSR. CSR.	Move to output	MOVE PAXOO3 MOVE JAXOO3 MOVE JAXOO3 MOVE ', EXER COO161 IFDQ 'L' MOVEL#SINER ELSE MOVE #SINER END - Item Category ' MOVE *ELANK MOVELQXXOO4 MOVE WAXOO4 MOVE WAXOO4 MOVE PAXOO4 MOVE JAXOO4 MOVE JAXO	#DATD #ALR #ECOR #DOOR VDX003 VDX003 VDX003 Code 004 #SINER #SINER #SINER #DOTYP #EMRD #EC #DSPD #DATD #ALR #ECOR #DOOR VDX004 VDX004	

Figure D-24 Item Master Information report (15 of 32)

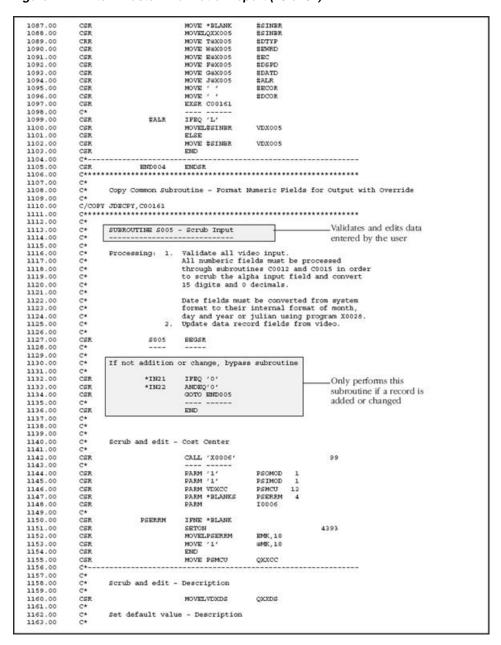


Figure D–25 Item Master Information report (16 of 32)

1165.00	CSR	STIXES	UFEQ *BLANK				
1166.00	CSR	Dexide	IFNE *BLANK				
1167.00	CSR		MOVEADGXDS	ODV			
1168.00	CSR.		MOVEBDV	QXXXDS			
1169.00	CSR.	GDV, 1	IFEQ ''''				
1170.00			MOVE ' '	GDV,1			
1171.00		-	Z-ADD2	#M			
1172.00	CSR.	#M	DOWLE40				
1173.00	CSR.	WDV, #M	IPEQ ''''				
1174.00	CSR		MOVE ' '	GDV, #m			
1175.00	CSR			Man			
1176.00	CSR.		ADD 1 END	#M			
1178.00	CSR		MOVEAGDV, 2	OXXDS			
1179.00	CSR		RND	QXXX			
1180.00	CSR		RND				
1181.00	CSR		END				
			ELL				
1182.00	C*	Edit allowed val	wes - Description	9			
1184.00		Edit allowed va.	- Peecrapero				
1185.00		Auxos	IPEQ '*NB'				
1186.00	CSR	QXXDS	ANDEQ*BLANK				
1187.00	CSR		MOVE '1'	GMK, 03			
1188.00	CSR.		SETON			4293	
1189.00	CSR.		END				
1190.00							
1191.00	C*						
1192.00	C*	Scrub and edit -	Date Last Ship				
1192 00	C*		uraci e alemana de la composición del composición de la composició				
1194.00	CSR		MOVEAVDXDT	03394			A
1195.00	CSR		EXSR C0012				
1196.00	C*						1 West Calds and in the
1197.00	CSR.		Z-ADD#NUME	NBR6		60	Work fields used in the
1198.00			MOVE \$NER6	QXXDT			RPG program begin with
1199.00							
1200.00	C*	Edit julian date	- Date Last Ship	P			
1201.00	C*						
1202.00	CSR	VDXDT	IFME * BLANK				
1203.00	CSR		MOVE QXXDT	#SIDAT			
1204.00	CSR		MOVE *BLANK	#EDAT	8		
1205.00	CSR.		MOVEL' *SYSVAL		7		
1206.00	CSR.		MOVEL' * JUL	'#TFMT			
1207.00	CSR		MOVEL' *NONE	'#SKP	7		
1208.00	CSR		MOVEL' '	SERTST	1	282	
1209.00	CSR		CALL 'X0028			99	
1210.00				100000000000000000000000000000000000000			
1211.00	CSR		PARM	#SIDAT			
1212.00	CSR		PARM	#EDAT			
1213.00			PARM	#PPMT			
	CSR		DARM	Address with com-			
1214.00			PARM	#TPMT			
1215.00	CSR.		PARM	#SEP			1000 G 543 AAN
1215.00 1216.00	CSR.		PARM	#SKP \$KRTST			Work fields used in a copy
1215.00 1216.00 1217.00	CSR. CSR. CSR.	(TH. T.O.	PARM PARM MOVEL#SIDAT	#SEP			Work fields used in a copy module begin with #
1215.00 1216.00 1217.00 1218.00	CSR CSR CSR CSR	SERTST [PARM PARM MOVEL#SIDAT IPEW '1'	#SKP \$KRTST QXXDT			Work fields used in a copy module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00	CSR CSR CSR CSR CRS	SERTST [PARM PARM MOVEL#SIDAT IPEW '1' MOVE '1'	#SKP \$KRTST			Work fields used in a copy module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00	CSR CSR CSR CSR CRS CRS	SERTST [PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON	#SKP \$KRTST QXXDT		4593	_ Work fields used in a copy module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00	CSR CSR CSR CSR CRS CSR CSR	SERTST [PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END	#SKP \$KRTST QXXDT			Work fields used in a copy module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00	CSR CSR CSR CSR CRS CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEW '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00	CSR CSR CSR CSR CRS CSR CSR CSR CSR	SERTST [PARM PARM MOVEL#SIDAT IPEW '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1219.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END SEND Item ID MOVEAVDXIT	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1219.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END	\$KRTST QXXDT QXXDT		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00 1226.00 1227.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C*	SERTST	PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXER CO012	#SEP \$KRTST QXXDT GHE, 04		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00 1228.00 1228.00 1228.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXER CO012 MOVE PEXIT	#SKP \$KRTST QXXDT WMK, 04		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00 1226.00 1227.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C*	SERTST	PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXER CO012	#SEP \$KRTST QXXDT GHE, 04		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00 1229.00 1229.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	SERTST	PARM PARM PARM MOVEL#SIDAT IPEW '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FWXIT MOVE GWXIT EXSR C00151	#SKP \$KRTST QXXDT WHK, 04		4593	module begin with #
1215.00 1217.00 1217.00 1218.00 1219.00 1220.00 1221.00 1222.00 1222.00 1223.00 1225.00 1226.00 1227.00 1229.00 1230.00 1230.00 1231.00 1231.00 1232.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERIST Scrub and edit -	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE PAXIT MOVE GAXIT EXSR C00151	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #
1215.00 1216.00 1217.00 1218.00 1219.00 1220.00 1222.00 1222.00 1223.00 1225.00 1227.00 1227.00 1227.00 1229.00 1230.00 1230.00 1231.00 1232.00 1232.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	SERIST Scrub and edit -	PARM PARM PARM MOVEL#SIDAT IPEW '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FWXIT MOVE GWXIT EXSR C00151	#SKP \$KRTST QXXDT WHK, 04		4593	module begin with #
1215.00 1217.00 1217.00 1219.00 1219.00 1220.00 1221.00 1222.00 1222.00 1223.00 1224.00 1226.00 1227.00 1227.00 1228.00 1229.00 1231.00 1231.00 1231.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00	CSR	SERIST	PARM PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FEXIT MOVE GAXIT EXSR C00151 MOVE #MUMBR	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #
1215.00 1217.00 1217.00 1218.00 1219.00 1229.00 1222.00 1223.00 1224.00 1225.00 1227.00 1227.00 1227.00 1229.00 1229.00 1230.00 1230.00 1230.00 1231.00 1231.00 1231.00 1233.00	CSR	SERIST Scrub and edit -	PARM PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FEXIT MOVE GAXIT EXSR C00151 MOVE #MUMBR	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #
1215.00 1217.00 1217.00 1219.00 1219.00 1220.00 1221.00 1222.00 1222.00 1223.00 1224.00 1226.00 1227.00 1227.00 1228.00 1229.00 1231.00 1231.00 1231.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00	CSR	SERIST	PARM PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FEXIT MOVE GEXIT EXSR C00151 MOVE ####################################	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #
1215.00 1217.00 1217.00 1219.00 1229.00 1221.00 1222.00 1222.00 1223.00 1224.00 1225.00 1226.00 1227.00 1228.00 1229.00 1230.00 1231.00 1231.00 1232.00 1233.00 1233.00 1233.00 1233.00 1236.00 1236.00 1236.00	CSR	Scrub and edit -	PARM PARM PARM MOVEL#SIDAT IFEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FEXIT MOVE GAXIT EXSR C00151 MOVE #MUMBR	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #
1215.00 1217.00 1217.00 1219.00 1229.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1222.00 1223.00 1229.00 1230.00 1231.00 1231.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00 1232.00	CSR	Scrub and edit -	PARM PARM MOVEL#SIDAT IPEN '1' MOVE '1' SETON END END Item ID MOVEAVDXIT EXSR C0012 MOVE FAXIT MOVE GAXIT EXSR C00151 MOVE #UNDER MOVE #UNDER MOVE #UNDER	#SKP \$KRTST QXXDT GME, 04		4593	module begin with #

Figure D-26 Item Master Information report (17 of 32)

42.00	Ct					
43.00	CSR		MOVE PAXIT	#DSPD		
14.00	CSR		MOVE GRXIT	#DATD		
15.00	CSR		EXSR C00151			
16.00	C*					
17.00	CSR		MOVE #NUMBE	QXXIT		
8.00	CSR		END			
9.00	C*	Edit upper and :	lower range -	Them ID		
1.00	C*	Edit upper and .	lower range -	Icem ID		
2.00	CSR	Lexit	IFNE *BLANK			
3.00	CSR	Della	MOVE *BLANK		15	
4.00	CER		MOVE '1'	SERTST		
5.00	CGR		MOVELQXXIT	XeXIT	3.7	
6.00	CSR	XeXIT	IFEG LEXIT			
7.00	CSR	XeXIT	ANDLEUSXIT			
0.00	CSK		MOVE ' '	SERTST		
9.00	CSR		END			
0.00	CSR	SERTST	IMEG '1'	The second secon		
1.00	CSR		MOVE '1'	#MK,07		
2.00	CSR		SETON			4193
3.00	CSR		END			
4.00	CSR					
6.00	C*					
7.00	C*	Scrub and edit -	Quantity - 0	n Hand		
8.00	c*	north and edit -	Kamerel - o			
9.00	CSR		MOVEAVEXCT	SHM		
0.00	CSR		EXSR COO12			
1.00	C*					
2.00	CSR		MOVE PRINCE	#DSPD		
3.00	CSR		MOVE GRXQT	#DATD		
4.00	CSR		EXSR C00151			
5.00	C*					
6.00	CSR		MOVE #NUMBE	QXXXQT		
7.00	C*	F				_Default value from Data Dictionary
8.00	C*	Set default value	e - Quantity	- On Hand		_Default value from Data Dictionary
9.00	C*	VEXOT	IPEO *BLANK			
1.00	CSR	Daxor	ANDNE*BLANK			
2.00	CER	Dangi	MOVEAD&XQT	garne.		
3.00	CSR		EXSR CO012	water		
4.00	C*					
5.00	CSR		MOVE FRXQT	#DSPD		
6.00	CSR		MOVE GRXQT	#DATD		
7.00	CGR		EXSR C00151			
8.00	C*					
9.00	CSR		MOVE #NUMBE	QXXXQT		
0.00	CSR		END			
1.00	C*					Upper and lower ranges
2.00	C*	Edit upper and lo	ower range -	Quantity - O	n Hand	from Data Dictionary
4.00	C.	F-4404	IPNE *BLANK			a comment of the comm
5.00	CSR	Laxor	MOVE *BLANK		15	
6.00	CSR		MOVE '1'	SERTST		
7.00	CSR		MOVELOXXOT	XeXQT	_	
8.00	CSR	XeXQT	IFEG LEXQT			
9.00	CSR	XeXQT	ANDLEUGXQT			
0.00	CSR	(00000000000000000000000000000000000000	MOVE ' '	SERTST		
1.00	CSR		END			
2.00	CGR	SERTST	IPEQ '1'			
	CSR		MOVE '1'	WMK,07		
3.00	CER		SETON			4693
3.00 4.00			END			
3.00 4.00 5.00	CSR		END			
3.00 4.00 5.00 6.00	CSR					
3.00 4.00 5.00 6.00 7.00	CSR CSR C**					
3.00 4.00 5.00 6.00 7.00 8.00	CSR CSR C**					
3.00 4.00 5.00 6.00 7.00 8.00 9.00	CSR CSR C** C*	Scrub and edit -				
3.00 4.00 5.00 6.00 7.00 8.00 9.00	CSR CSR C** C* C*		Item Type			
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00	CSR CSR C** C*					
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00 1.00 2.00	CSR C** C* C* C* C*	Scrub and edit -	Item Type MOVELVEXTY	QXXTY		
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00 1.00 2.00 3.00	CSR C** C* C* C* C*		Item Type MOVELVEXTY	QXXTY		
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00 1.00 2.00 3.00 4.00	CSR C** C* C* C* CSR C*	Scrub and edit -	Item Type MOVELVEXTY	QXXTY		
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00 1.00 2.00 2.00 4.00 5.00 6.00	CSR CSR C** C* C* CSR C* C* CSR CSR CSR	Scrub and edit -	Item Type MOVELVEXTY - Item Type IPEQ *BLANK IPME *BLANK	QXXTY		
3.00 4.00 5.00 6.00 7.00 8.00 9.00 0.00 1.00 2.00 3.00 4.00 5.00	CSR C** C* C* CSR C* C* C*	scrub and edit -	Item Type MOVELVDXTY - Item Type IPEQ *BLANK	QXXTY		

Figure D–27 Item Master Information report (18 of 32)

319.00	CSR	@40,1	IPEQ ''''		
220.00	C-80.70	10000	MOVE ' '	@40,1	
1321.00	CSR	Else.	Z-ADD2	#M	
1322.00	CSR	#M @40,#M	DOWLE40 IFEQ ''''		
	CSR	040,#M	MOVE , ,	840, #M	
1325.00	CSR		END	,	
1326.00	CSR		ADD 1	#M	
1327.00	CER		END	000000000000000000000000000000000000000	
1328.00	CSR		MOVEAG40,2	QXXTY	
1329.00	CSR		END		
1331.00	CSR		END		
1332.00	C*				
1333.00	C*	Edit allowed va	lues - Item Type		
1334.00	C*	AGXTY	IPNE *BLANK		
1336.00	CSR	AGXTY	IPEC '*NB'		
1337.00	CSR	QXXTY	ANDEQ*BLAMK		
1338.00	CER	870	MOVE '1'	aMR, 03	
1339.00	CSR		SETON		4493
1340.00	CSR		ELSE		
1341.00	CSR		MOVEAAGKTY MOVE *HIVAL	940 9AV	
1342.00	CSR		EXSE C997	404	
1344.00	C*				
1345.00	CSR		MOVE ' '	SERTST 1	
1346.00	CSR		MOVE *BLANK	SWRK10 10	
1347.00	CSR	2277.7	MOVELQXXTY	\$WRK10	
1348.00 1349.00	CSR	GAV,1 SWRK10	IPNE *HIVAL LOKPUP@AV		81
1350.00	CSR	*IN61	IPEO 'O'		**
1351.00	CSR		MOVE '1'	\$ERTST	
1352.00	CSR		END		
1353.00	CSR	SERTST	IPEQ '1'		
1354.00	C*		MOVE '1' SETON	0*,07	1103
1355.00	CSR		SETON		4493
1356.00	CSR		END		
1356.00	CSR		END		
1359.00	CSR		END		
1360.00	C*				
1361.00	C*	Edit upper and	lower range - It	em Type	
1362.00	C*	T.AVMI	IFNE *BLANK		
1364.00	CSR	LQXTY	MOVE '1'	SERTST	
1365.00	CSR	QXXXTY	IFGE LEXTY	,	
1366.00	CGR	QXXTY	ANDLEU@XXTY		
1367.00	CSR		MOVE ' '	SERTST	
1368.00	CER		END		
1369.00	CSR	ŞERTST	MOVE '1'	WMK.07	
1370.00	CSR		MOVE '1'	west, 07	4493
1372.00	CSR		END		(3555)
1373.00	CGR		END		
1374.00	C*	1072222-0202-0302-030			
1375.00	C*	Edit from User	Defined Codes - :	Item Type	
1376.00	C*	novm:	IFNE *BLANK		
1377.00	CSR	Rexty	IPNE *BLANK CLEARZOOOSU		
1378.00	CSR C*		MOVELSEXTY	#USY	
1380.00	CSR		MOVE REXTY	#URT	
1381.00	CSR		MOVE QXXTY	#UKR	
1382.00	CSR		CALL 'X0005'		81
1383.00	C*		2220		
1384.00	CSR	Armer	PARM	100050	
1385.00	CSR	#UERR	MOVE '1'	@MK,09	
	CSR		SETON	ww., 09	4493
1387.00	CSR		END		
1387.00	CER		END		
1386.00 1389.00					
1386.00 1389.00 1390.00					
1386.00 1389.00 1390.00 1391.00	C+				
1386.00 1389.00 1390.00 1391.00 1392.00	C*	scrub and edit	- Item Unit of M	easure	
1386.00 1389.00 1390.00 1391.00	C+	scrub and edit	- Item Unit of M	easure QXXVM	

Figure D-28 Item Master Information report (19 of 32)

```
1396.00
1397.00
1398.00
1399.00
                         C*
C*
CSR
CSR
                                       Set default value - Item Unit of Measure
                                                          QXXUM
E!XUM
                                                                              IPEQ *BLANK
IFNE *BLANK
1399.00
1400.00
1401.00
1402.00
1403.00
1404.00
                         CSR
CSR
CSR
CSR
CSR
                                                                              MOVEADSXUM
MOVEAGE
MOVE ''
                                                                                                                  QXXUM
                                                        040,1
                                                                                                                 #M #40,1
                                                                              Z-ADD2
1405.00
1406.00
1407.00
1408.00
                         CSR
C*
CSR
CSR
                                                                              DOWLE40
HOVE ''
                                                       #M
940,#M
                                                                                                                  940, EMB
                                                                              END
1409.00
1410.00
1411.00
1412.00
                         CSR
CSR
CSR
CSR
                                                                               ADD 1
                                                                                                                  #M
                                                                              END
MOVEA@40,2
                                                                                                                  QXXUM
                                                                               END
1412.00
1413.00
1414.00
1415.00
1416.00
1417.00
                         CSR
CSR
C*
C*
                                                                               END
                                      Edit allowed values - Item Unit of Measure
                                                                             IPNE *BLANK
IPEQ '*NB'
ANDEQ*BLANK
1418.00
1419.00
1420.00
1421.00
                         CSR
CSR
CSR
CSR
                                                         AGXUM
MUXGA
MUXQ
                                                                                                                  WMK, 03
1421.00
1422.00
1423.00
1424.00
1425.00
1426.00
                         CSR
CSR
CSR
CSR
CSR
                                                                              SETON
                                                                                                                                                 4793
                                                                              ELSE
                                                                              MOVEAA@XUM
MOVE *HIVAL
EXSR C997
                                                                                                                  940
9AV
1427.00
1428.00
1429.00
1430.00
                          C*
CSR
CSR
CSR
                                                                              MOVE *BLANK
                                                                                                                  $ERTST 1
$WRK10 10
$WRK10
                                                      GAV,1
$WRRK10
*IN6I
1431.00
1432.00
1433.00
1434.00
                         CSR
CSR
CSR
CSR
                                                                              NOAE .1.
TOKOLOGY
TEME *HINYT
                                                                                                                                                      61
                                                                                                                  SERTST
1435.00
1436.00
1437.00
1438.00
1439.00
                         CSR
C*
CSR
CSR
CSR
                                                                               END
                                                                              IPEQ '1'
MOVE '1'
SETON
                                                        SERTST
                                                                                                                  BMK, 07
                                                                                                                                                  4793
                                                                              END
                         CSR
CSR
CSR
C*
C*
1440.00
1441.00
1442.00
1443.00
                                                                               END
                                                                               END
1444.00
1445.00
1446.00
1447.00
1448.00
                                      Edit upper and lower range - Item Unit of Measure
                         CSR
CSR
CSR
                                                                              IFNE *BLANK
MOVE '1'
IFGE LEXUM
                                                                                                                  SERTST
                                                        QXXUM
                                                                             MOAE .1,
END
WOAE . ,
FNO-MOXON
1449.00
1450.00
1451.00
1452.00
                         CSR
CSR
CSR
CSR
                                                        OXTON
                                                                                                                  SERTST
                                                        SERTST
1453.00
1454.00
1455.00
1456.00
1457.00
                         C*
CSR
C*
C*
C*
C*
C*
                                                                                                                  @MK,07
                                                                               SETON
                                                                                                                                                  4793
                                                                               END
1458.00
1459.00
1460.00
                                      Edit from User Defined Codes - Item Unit of Measure
```

Figure D-29 Item Master Information report (20 of 32)

1473.00	C*					
1474.00	C*					
1475.00	C*	Scrub and edit -	Them Category	Code 001		
1476.00	C+	perup min core	reem encedorl			
1477.00	CSR		MOVELVDX001	oxxoo1		
1478.00	C*		MOVEDVDXOOL	QAROUL		
1479.00	C*	Set default value	- Thom Catogor	or Code COS		
1480.00	C*	sec deladic value	- Item categor	ry code our		
1481.00	CSR	077003	TODO ADTINO			
1482.00	CSR	QXX001	IPEQ *BLANK IPNE *BLANK			
		Dayool				
1483.00	CSR		MOVEAD@X001	040		
1484.00	CSR		MOVEA840	QXX001		
1485.00	CSR	940,1	IPEQ ''''			
1486.00	CSR		MOVE ' '	040,1		
1487.00	CSR	400	Z-ADD2	#M		
1488.00	CSR	#м	DOWLE40			
1489.00	CSR	@40,#m	IPEQ			
1490.00	CSR		MOVE ' '	@40,#M		
1491.00	CSR		END	1925		
1492.00	CSR		ADD 1	#M		
1493.00	CSR		END			
1494.00	CSR		MOVEA840,2	QXX001		
1495.00	CSR		END			
1496.00	CSR		END			
1497.00	CSR		END			
1498.00	C*					
1499.00	C*	Edit allowed value	es - Item Cates	gory Code 001		
1500.00	C*					
1501.00	CSR	Aexool	IFNE *BLANK			
1502.00	CSR	Auxool	IFEQ '*NB'			
1503.00	CSR	QXX001	ANDEQ*BLANK			
1504.00	CSR		MOVE '1'	aMk, 03		
1505.00	CGR		SETON		4893	
1506.00	CSR		ELSE			
1507.00	CSR		MOVEARQX001	940		
1508.00	CSR		MOVE *HIVAL	@AV		
1509.00	CSR		EXSR C997			
1510.00	C+		**** ****			
1511.00	CER		MOVE ' '	SERTST 1		
1512.00	CSR		MOVE *BLANK	\$WRK10 10		
1513.00	CSR		MOVELQXX001	\$WRK10		
1514.00	CER	GAV,1	IFNE *HIVAL	y manage		
1515.00	CSR	SWRKIO	LOKUPSAV		81	
1516.00	CSR	*IN61	IFEQ '0'		7.0	
1517.00	CSR		MOVE '1'	SERTST		
1518.00	CSR		END			
1519.00	CSR	SERTST	IPEQ '1'			
1520.00	CSR		MOVE '1'	@MK,07		
1521.00	CSR		SETON	and, or	4893	
1522.00	CCR		END		4073	
1523.00	CSE		EMD			
1524.00	CSR		END			
1525.00	CSR		END			
1525.00	C*					
1526.00	C#	Edit upper and lo	war range Ti	om Cabanomi Cada	001	
1527.00	C*	adic upper and ic	Jeer range - 10	em category code	001	
		T OWNER.	F. FR P. F.			
1529.00	CSR	Lex001	IFNE *BLANK	Annen		
1530.00	CSR			SERTST		
1531.00	CSR	QXX001	IPGE Laxool			
1532.00	CSR	QXX001	ANDLEU@X001	7/20000000		
1533.00	CSR		MOVE ' '	ŞERTST		
1534.00	CSR	15	END			
1535.00	CSR	ŞERTST	IEEG '1'			
1536.00	CSR		MOVE '1'	9MK,07		
1537.00	CSR		SETON		4893	
1538.00	CSR		END			
1539.00	CSR		END			
1540.00	C*					
1541.00	C*	Edit from User De	efined Codes -	Item Category Co	de 001	
1542.00	C*			(F) (B)		
1543.00	CSR	Rex001	IFNE *BLANK			
1544.00	CSR		CLEAR10005U			
1545.00	CSR		MOVELS@X001	#USY		
1546.00	CSR		MOVE RAXOO1	#URT		
1547.00	CSR		MOVE OXXOOL	#UKY		
			CALL 'X0005'			
1548.00	CSR				81	

Figure D-30 Item Master Information report (21 of 32)

1550.00	CSR		PARM	100050	
1551.00	CSR	#UERR	IFEQ '1'		
1552.00	CSR		MOVE '1'	aMX,09	
1553.00	CSR		SETON	100 may 20 may 2	4893
1554.00	CSR		END		
1555.00	CSR		END		
1556.00	C*				
1557.00	C*				
1558.00	C*	Scrub and edit -	Item Category C	ode 002	
1559.00	C*				
1560.00			MOVELVDX002	QXX002	
1561.00	Ct				
1562.00	C*	Set default valu	e - Item Categor	v Code 002	
1563.00	C*	201 0014011 1410	e - zeem caregoz	,	
1564.00	CSR	QXX002	IFEQ *BLANK		
1565.00	CSR	D0X002	IFNE *BLANK		
1566.00	CSR		MOVEADX002	840	
1567.00	CSR		MOVEAG40	QXX002	
1568.00	CSR	940,1	IFEQ ''''	Sunoa	
1569.00	CSR	940,1	MOVE , ,	940,1	
1570.00	CSR		Z-ADD2	#M	
1570.00	COR	шм	DOWLE40	an.	
1571.00	CSR	#M @40,#M	IPEQ ''''		
		wau, ##	MOVE ' '	040 FM	
	CSR		END .	840,#M	

1575.00	CSR		ADD 1	#м	
1576.00	CSR		END		
1577.00	CSR		MOVEAG40,2	QXX002	
1578.00	CSR		END		
1579.00	CSR		END		
1580.00	CSR		END		
1581.00	C*				
1582.00	C*	Edit allowed valu	es - Item Catego:	ry Code 002	
1583.00	C.				
1584.00	CSR	A@X002	IFNE *BLANK		
1595.00	CSR	A4X002	IFEQ '*NB'		
1586.00	CSR	QXX002	ANDEQ*BLANK		
1587.00	CSR		MOVE '1'	aMC,02	
1588.00	CSR		SETON		4993
1589.00	CSR		ELSE		
1590.00	CER		MOVEAAX002	840	
1591.00	CSR		MOVE *HIVAL	WAV	
1592.00	CSR		EXSR C997		
1593.00	C*				
1594.00	CSR		MOVE ' '	SERTST 1	
1595.00	CSR		MOVE *BLANK	SWRK10 10	
1596.00	CSR		MOVELQXX002	SWRKLO	
1597.00	CSR	@AV,1	IFNE *HIVAL		
1598.00	CSR	SWFRKlo	LOKUPGAV		81
1599.00	CSR	*1N61	IFEQ '0'		
1600.00			MOVE '1'	SERTST	
1601.00	CSR		END		
1602.00	CSR	SERTST	IFEQ '1'		
1603.00	CSR	Anthonical I	MOVE '1'	WMX,07	
1604.00	CSR		SETON		4993
1605.00	CSR		END		
1606.00	CSR		END		
1607.00	CSR		END		
1608.00	CSR		END		
1609.00	C*				
1610.00	C.	Edit upper and	lower range - Tr	em Category Cov	ie 002
1611.00	C*				
1612.00	CSR	L@X002	IFNE *BLANK		
1613.00	CSR		MOVE '1'	SERTST	
1614.00	CSR	QXX002	IFGE Laxoo2		
1615.00	CSR	QXX002	ANDLEUGX002		
1616.00	CSR	Avvance	MOVE ' '	SERTST	
1617.00	CSR		END .	ARVIDI	
1617.00	CSR	å ppg-om	IPEQ '1'		
		SERTST	MOAB '1,	CANT AT	
1619.00	CSR			WMX,07	4003
1620.00	CSR		SETON		4993
1621.00	CSR		END		
1622.00	CSR		END		
1623.00	C*	12221012101110111011		261 (1877) (1879) (1879)	3020000
1624.00	C*	Edit from User	Defined Codes - :	Item Category	Code 002
1625.00	C*				
1626.00	CSR	R@X002	IFNE *BLANK		

Figure D-31 Item Master Information report (22 of 32)

1627.00	CSE		CLEARIOOOSU		
1628.00	CSR		MOVELS@X002	#USY	
1629.00	CSR		MOVE RAXOUS	#URT	
1630.00	CSE		MOVE QXX002	OUKr	
1631.00	CSE		CALL 'X0005'		81
1632.00	C*				(0.7)
1633.00	CSR		PARM	100050	
1634.00	CSR	#UERR	IPBQ '1'		
1635.00	CER		MOVE '1'	9MK, 09	
1636.00	CER		SETON	with, os	4993
1637.00	CSE		END		4777
1638.00	CSR		END		
	C*				
1639.00					
1640.00	C*				
1641.00	C*	Scrub and edit -	Item Category	Code 003	
1642.00	C*		141100000110001	7-24200-000	
1643.00	CSR		WOARTADX003	QXX003	
1644.00	C*				
1645.00		Set default value	- Item Categor	y Code 003	
1646.00	C*				
1647.00	CSE	QXX003	IFEQ *BLANK		
1648.00	CSR	Dax003	IFNE *BLANK		
1649.00	CSR	477 5555 5754	MOVEAD@X003	940	
1650.00	CER		MOVEA@40	QXX003	
1651.00	CSR	840,1	IPBO ''''		
1652.00	CSR	,-	MOVE ' '	940.1	
1653.00	CSE		Z-ADD2	#M	
1654.00	CSR	žм	DOWLE40	444	
1655.00	CSR	₩40,#M	TPPO ////		
1656.00	CSR	440,250	MOVE ' '	940, #M	
1657.00	CSR		EMD	940, 80	
				ii.	
1658.00	CSR		ADD 1	#M	
1659.00	CSR		END	1122222222	
1660.00	CSR		MOVER940,2	QXX003	
1661.00	CSR		END		
1662.00	CSR		END		
1663.00	CSR		END		
1664.00	C*				
1665.00	C*	Edit allowed value	es - Item Categ	ory Code 003	
1666.00	C*				
1667.00	CSE	Aux003	IFNE *BLANK		
1668.00	CSR	Aux003	IPEQ '*NB'		
1669.00	CSE	QXX003	ANDEQ*BLANK		
1670.00	CSE	2070 88 CONT.	MOVE '1'	9MK, 03	
1671.00	CSR		SETON	0.000	5093
1672.00	CSR		ELSE		
1673.00	CSE		MOVEAA@003	040	
1674.00	CSE		MOVE *HIVAL	WAV	
1675.00	CSE		EXSR C997	(0.000)	
1676.00	C*				
1677.00	CSR		MOVE ' '	SERTST 1	
1678.00	CSE		MOVE *BLANK	SWRK10 10	
1679.00	CSE		MOVELOXX003	SWRK10 10	
		anu s		OMERTO	
1680.00	CSR	aAV,1	IPNE *HIVAL		
1681.00	CSR	\$WRK10	LOKUPWAV		81
1682.00	CSR	*IN81	IBEO .o.		
1683.00	CSR		MOVE '1'	SERTST	
1684.00	CSR	W-1000000000000000000000000000000000000	END		
1685.00	CSR	SERTST	IFEQ '1'		
1686.00	CSR		MOVE '1'	@MK,07	
1687.00	CSE		SETON		5093
1688.00	CSR		END		
1689.00	CSR		END		
1690.00	CSR		END		
1691.00	CSR		END		
1692.00	C*				
1693.00	C*	Edit upper and lo	wer range - Ite	n Category Cod	e 003
1694.00	C*				
1695.00	CSR	Lax003	IFNE *BLANK		
1696.00	CER	220003	MOVE '1'	SERTST	
1697.00	CSE	QXX003	IPGE Lexoos	QBR.LOL	
1698.00	CSR	OXX003	ANDLEU@X003		
		Syron3		American	
1699.00	CSR		MOVE ' '	SERTST	
1700.00	CSR	*****	END		
1701.00	CSR	SERTST	IBBO '1'		
	CSE		MOVE '1'	@MK,07	
1702.00	CSR		SETON		5093

Figure D-32 Item Master Information Report (23 of 32)

1704.00	CSR		END		
1705.00	CSR		END		
1706.00	C*	122400000000000000000000000000000000000		122574002030000000000	2012920
1707.00	C*	Edit from User	Delined Codes -	Item Category Cod	le 003
1708.00		BORGOS	TOWN ADDITION		
1709.00	CSR	RGX003	IFNE *BLANK CLEARIOOOSU		
1711.00	CER		MOVELS@X003	#USY	
1712.00	CSR		MOVE ROXOUS	#URT	
1713.00	CSR		MOVE OXXOO3	#UKY	
1714.00	CSR		CALL 'X0005'	WORLE	81
1715.00	C*				
1716.00	CSR		PARM	100050	
1717.00	CSR	#UERR	IFEQ '1'		
1718.00	CSR		MOVE '1'	@MK,09	
1719.00	CSR		SETON		5093
1720.00	CER.		END		
1721.00	CSR		END		
1722.00	C*				
1723.00	C*				
1724.00	C*	Scrub and edit	- Item Category	Code 004	
1725.00	C*				
1726.00	CSR		MOVELVDX004	QXX004	
1727.00	C*				
1728.00	C*	Set default valu	e - Item Catego	ry Code 004	
1729.00	C*				
1730.00	CSR		IFEQ *BLANK		
1731.00	CSR	Dax004	IFNE *BLANK		
1732.00	CER		MOVEADaX004	940	
	CSR		MOVEA840	QXX004	
	CSR	@40,1	IEES		
1735.00	CSR		MOVE ' '	840,1	
1736.00	CSR		Z-ADD2	#M	
1737.00	CSR	#14	DOWLE40		
1738.00	CSR.	@40, #M	IFEQ ''''		
1739.00	CSR.		WOAR , ,	040,#M	
1740.00	CSR		END	and the same of th	
1741.00	CSR		ADD 1	#M	
1742.00	CSR		END	077004	
1743.00	CSR		MOVEAG40,2 END	QXX004	
1745.00	CSR		RND		
1746.00	CSR		END		
1747.00			ALVE .		
1748.00	C*	Edit allowed val	ues - Item Cate	nory Code 004	
1749.00	C*				
1750.00	CSR	A@X004	IFNE *BLANK		
1751.00			IFEO '*NB'		
1752.00	CSR	QXX004	ANDEQ*BLANK		
1753.00	CSR	(A. 1986)	MOVE '1'	@MX,03	
1754.00	CSR		SETON	1 1 1 1 1 1 1 1	5193
1755.00	CSR		PLSE		
1756.00	CSR.		MOVEARGX004	940	
1757.00	CSR.		MOVE *HIYAL	WAV	
1758.00	CSR		EXSR C997		
1759.00	C*				
1760.00	CSR		MOVE ' '	SERTST	
1761.00	CSR		MOVE .BLYKK	SWRK10 10	
1762.00	CSR	0.83	MOVELQXX004	\$WRK10	
1762.00	CSR	sav,1	IFNE *HIVAL		
1764.00	CSR	SWRKIO	LOKUPGAV		81
1765.00	CSR.	*IN81	IFEQ '0'	100000000	
1766.00	CSR.		MOVE '1'	SERTST	
1767.00	CSR		END		
1768.00	CSR	\$ERTST	IFEQ '1'		
1769.00	CSR		MOVE '1'	@MK,07	
1770.00	CSR		SETON		5193
	CSR		END		
1771.00	CSR		and the same of th		
1772.00	CSR		END		
1772.00	contr.		ERD		
1772.00 1773.00 1774.00	CSR.				
1772.00 1773.00 1774.00 1775.00	C*	ndit upper	loune sames -	tom Cakenomi Code	004
1772.00 1773.00 1774.00 1775.00 1776.00	C*	Edit upper and	lower range - I	tem Category Code	004
1772.00 1773.00 1774.00 1775.00 1776.00 1777.00	C*			tem Category Code	004
1772.00 1773.00 1774.00 1775.00 1776.00	C*	Edit upper and	lower range - I IFNE *BLANK MOVE '1'	tem Category Code	004

Figure D-33 Item Master Information report (24 of 32)

1781.00	CSR	OXX004	ANDLEUSX004		
1782.00	CSR		MOVE '	SERTST	
1783.00	CSR		END		
1704.00	CSR	SERTST	IPEQ '1'		
1785.00	CSR		MOVE '1'	9MK,07	
1786.00	CSR		SETON		5193
1797.00	CSR		EDID		
1788.00	CSR		END		
1789.00	C*				
1790.00	C*	Edit from User	Defined Codes - :	Item Category	Code 004
1791.00	C*				
1792,00	CSR	Rex004	IFNE *BLANK		
1793.00	CSR		CLEARI0005U		
1794.00	CGR		MOVELS@X004	#USY	
1795.00	CSR		MOVE REXOO4	#URT	
1796.00	CSR		MOVE QXX004	#OKX	
1797.00	CSR		CALL 'X0005'		81
1798.00	C*				
1799.00	CSR	********	PARM	100050	
1800.00	CSR	#UERR	IPEQ '1'		
1801.00	CSR		MOVE '1'	@MK,09	****
1802.00	CSR		SETON		5193
1803.00	CSR		END		
1804.00	CSR		END		
1805.00					
1806.00	C*	County and add	Them determine	nada nas	
1807.00	C*	Scrub and edit	- Item category	code 005	
1808.00	C# CGR		MOVELVOXOOS	QXX005	
1810.00	C*		MOVEDVOXOOS	QXXVVV	
1811.00		Set default valu	a - Them Category	e code one	
1812.00	C*	per deladir valu	e - rees caregor	y code our	
1813.00	CSR	QXX005	IPEQ *BLANK		
1814.00	CSR	Dexoos	IFNE *BLANK		
1815.00	CSR	2.110-00	MOVEADEXOOS	940	
1816.00	CSR		MOVEA840	QXX005	
	CSR	040,1	IPEQ ''''	2	
1818.00	CSR	,-	MOVE ' '	940,1	
1819.00	CSR		Z-ADD2	#M	
1820.00	CSR	#M	DOWLE40	200	
1821.00	CSR	@40, #M	IPEQ ''''		
1822.00	CSR		MOVE ' '	940,#M	
1823.00	CSR		END		
1824.00	CSR		ADD 1	#M	
1825.00	CSR		END		
1826.00	CSR		MOVEA840,2	QXX005	
1827.00	CSR		EMD		
1928.00	CSR		END		
1829.00	CSR		EDID		
1830.00	C*				
1931.00	C*	Edit allowed va	lues - Item Cate	gory Code 005	
1032.00					
1833.00	CSR	A@XOO5	IFNE *BLANK		
1834.00	CSR	A9X005	IBEÓ .*NB.		
1835.00	CSR	QXX005	ANDEQ*BLANK		
1836.00	CSR		MOVE '1'	aMK, 03	****
1837.00	CSR		SETON		5293
1838.00	CSR		ELSE		
1839.00	CSR		MOVEAA@X005 MOVE *HIVAL	940 9AV	
				WAY.	
1841.00	CSR C*		EXSR C997		
1842.00	CSR		MOVE ' '	SERTST 1	
1844.00	CSR		MOVE *BLANK	\$WRK10 10	
1845.00	CSR		MOVELQXX005	SWRK10 10	
1846.00	CSR	@AV,1	IFNE *HIVAL	Quint.TO	
1847.00	CSR	SWRKLO	LOKUPSAV		81
1848.00	CSR	*IN81	IPEO 'O'		
1849.00	CSR	THOL	MOVE '1'	SERTST	
1850.00	CSR		END	yan.et	
1851.00	CSR	SERTST	IPEQ '1'		
1852.00	CGR	·	MOAE .1.	BMX.07	
1853.00	CSR		SETON		5293
1854.00	CSR		END		5000
1855.00	CSR		END		
1856.00	CSR		END		

Figure D-34 Item Master Information report (25 of 32)

```
1858.00
1859.00
1860.00
1861.00
1862.00
                  C*
C*
CSR
CSR
                             Edit upper and lower range - Item Category Code 005
                                                       IFNE *BLANK
MOVE '1'
                                                                                SERTST
1863.00
1864.00
1865.00
1866.00
                  CSR
CSR
CSR
CSR
                                                       IFGE Laxons
                                    OXX005
                                                       ANDLEUGX005
                                                        END
1867.00
1868.00
1869.00
1870.00
1871.00
                                                       IFEQ '1'
MOVE '1'
SETON
                  CSR
CSR
CSR
CSR
CSR
                                    SERTST
                                                                                @MK,07
                                                                                                        5293
                                                       END
1872.00
1873.00
1874.00
1875.00
                  C*
C*
CSR
                            Edit from User Defined Codes - Item Category Code 005
                                    R0X005
                                                       IFNE *BLANK
1876.00
1877.00
1878.00
1879.00
1880.00
                  CSR
CSR
CSR
CSR
CSR
                                                       CLEARIOOSU
MOVELSAXOOS
MOVE QXXOOS
MOVE QXXOOS
CALL 'XOOOS'
                                                                                 ingy
                                                                                 #URT
#UKY
                                                                                                           81
1881.00
1882.00
1883.00
1884.00
                  C#
CSR
CSR
CSR
                                                       PARM
                                                                                100050
                                 #UERR
                                                       IPEQ '1'
                                                                                @MK,09
1885.00
1886.00
1887.00
1888.00
                  CSR
CSR
CSR
C*----
                                                       SETON
                                                                                                       5293
                                                        END
                  CSR ENDOS ENDSE
C.* Copy Common Subroutine - Currency - Translate Video Fields to Data Base
C.*
1889.00
1890.00
1891.00
1892.00
1893.00
1894.00
1895.00
1896.00
1897.00
                  C/COPY JDECPY, C00151
C*
C*
C*
Copy Common Subroutine - Build Allowed Values Work Array
1898.00
1899.00
1900.00
1901.00
                  C/COPY JDECPY,C997
C*
C* Subroutine S010 - Update Data Base
1902.00
1903.00
1904.00
1905.00
1906.00
                  0000
                           Processing: 1. Update data base file based upon valid
                                                       action codes.
1907.00
1908.00
1909.00
1910.00
                  C*
CSR
C*
C*
CSR
CSR
CSR
                                          2010
                                                     BEGSE
1911.00
                           If add action, add record.
1912.00
1913.00
1914.00
                                        *IN21
                                                        WRITE192801
1915.00
                                                       END
1916.00
1917.00
1918.00
1919.00
                  C*
C*
CSR
                            If change action, update record.
                                        *IN22
                                                      IFEQ '1'
                  CSR
CSR
C*
C*
1920.00
                                                       UPDATI92801
END
                                                                                                           90
1921.00
1922.00
                           If delete action, delete record.
1923.00
1924.00
                                    *IN23 IPEQ '1'
                  CSR
CSR
CSR
1925.00
1926.00
                                                       END
1928.00
```

Figure D-35 Item Master Information report (26 of 32)

1930.00	C*	Clear data field	for next transact	ion			ces clear of everything befor
1931.00	CSR		MOVE #PCLR	GGAID			cessing next record. Simulate
1932.00	CSR		EXSR SOOL	SAVID	1:	use	r pressing the Clear Screen
						fun	ction key.
1933.00	C*	22223000					
1934.00	CSR	END010	ENDSR				
1935.00	C***	*************	**************	*******	********		*******
1935.00	C*	7					Retrieves all of the Data
1936.00	C*	SUBROUTINE S998 -	Load dictionary	parameter	p	_	Dictionary editing parameters
1937.00	C*						
1938.00	C*						for necessary data items used
1939.00	CSR	£998	BEGGE				in the program and moves th
1940.00	C*	2770					information into constant field
	C*						information into constant nei
1941.00							
1942.00	C*						
1943.00	C*						
1944.00	C.	Dictionary para	meters for - Cost	Center			
1945.00	C*						
1946.00.	CSE		MOVE *BLANK	PRDTAI			
1947.00	CSR		MOVEL'XCC'	PRIMAI			
1948.00	CSR		CALL 'X9800E'			81	Data Dictionary
1949.00	C*		THE RESULT				
1950.00	CSR		PARM	19800E			file server
		F70 F70 B		TAGOOR			
1951.00	CSR	FRERR	IPRQ 'O'	20,002	990		
1952.00	CSR		MOVE PRDSCR	Bexcc	40		
1953.00	CSE		MOVE FROTAT	Texacc	1		
1954.00	CSR		MOVE FREC	EWXCC	1		
1955.00	CSR		MOVE PROTAS	COXCC	50		
1956.00	CSR		MOVE PROTAD	GexCC	20		
1957.00	CSE		MOVE PRODEC	Paxcc	1		
1958.00	CSR		MOVELPRSY	Sexco	4		
1959.00	CSR			Rexcc	2		
			MOVE FRRT				
1960.00	CSR		MOVE PROVAL	Dexcc	40		
1961.00	CSR		MOVE FRVAL	Aexcc	40		
1962.00	CSE		MOVE FRLVAL	L4XCC	40		
1963.00	CSR		MOVE PRUVAL	Uexcc	40		
1964.00	CSR		MOVE PREDWR	Wexcc	30		
1965.00	CSE		MOVE FRLR	Jexee	1		
1966.00	CSE		MOVE PRINTIX	Nexcc	20		
1967.00	CSR		Z-ADD1	#excc	110		
1968.00	CSR			#A	410		
			MOVE PAXCC	÷Λ			
1969.00	CSR		DO #A	Marray.			
1970.00	CSR		MULT 10	#excc			
1971.00	CSR		END				
1972.00	CSE		END				
1973.00	C*						
1974.00	C*						
1975.00	C*	Dictionary para	meters for - Desc	ription			
1976.00	C*	Para					
1977.00	CSR		MOVE *BLANK	PRDTAI			
	CSR		MOVEL'XDS'	PRIMAI			
1979.00	CSR		CALL 'X9800E'			81	
1979.00 1980.00	C*					81	
1978.00 1979.00 1980.00 1981.00	C*		PARM	19600E		81	
1979.00 1980.00	C*	FRERR	PARM	19600E		81	
1979.00 1980.00 1981.00 1982.00	C*	PRERR		I9600E BeXDS	40	81	
1979.00 1980.00 1981.00 1982.00 1983.00	C* CSR CSR	FRERR	PARM IPEQ 'O' MOVE PROSCR		40	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00	C* CSR CSR CSR CSR	FRERR	PARM IPEQ 'O' MOVE PRDSCR MOVE PRDTAT	BeXDS TeXDS	1	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00	C* CSR CSR CSR CSR CSR	FRERR	PARM IPPQ 'O' MOVE PRDSCR MOVE PRDTAT MOVE PREC	BeXDS TeXDS EeXDS	1	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00	C* CSR CSR CSR CSR CSR CSR	FRERR	PARM IPEQ 'O' MOVE PRDSCR MOVE PRDTAT MOVE PREC MOVE PRDTAS	BeXDS TeXDS EeXDS CeXDS	1 1 50	81	
1979.00 1980.00 1981.00 1981.00 1983.00 1984.00 1985.00 1986.00 1987.00	C* CSR CSR CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PRDSCR MOVE PRDTAT MOVE PRDTAS MOVE PRDTAS MOVE PRDTAD	BeXDS TeXDS EWXDS CWXDS GWXDS	1 50 20	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00	C* CSR CSR CSR CSR CSR CSR CSR CSR	PRERR	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD	BeXDS TeXDS EeXDS CeXDS GeXDS PeXDS	1 1 50 20	81	
1979.00 1980.00 1981.00 1982.00 1984.00 1984.00 1985.00 1986.00 1987.00 1988.00	C* CSR	PREER	PARM IPPQ '0' MOVE PROTAT MOVE PROTAT MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD	BeXDS TeXDS EeXDS CeXDS GeXDS FeXDS SeXDS	1 50 20 1	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00	C* CSR	PRERA	PARM IPEQ '0' MOVE PRESCR MOVE PRETAT MOVE PRETAS	BeXDS TEXDS EEXDS CEXDS GEXDS FEXDS SEXDS REXDS	1 1 50 20 1 4	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00	C* CSR	PRERR	PARM IPPQ '0' MOVE PROTAT MOVE PROTAT MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD	BeXDS TeXDS EeXDS CeXDS GeXDS FeXDS SeXDS	1 50 20 1	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1985.00 1986.00 1988.00 1989.00 1999.00 1991.00	C* CSR	PRERA	PARM IPEQ '0' MOVE PRESCR MOVE PRETAT MOVE PRETAS	BeXDS TEXDS EEXDS CEXDS GEXDS FEXDS SEXDS REXDS	1 1 50 20 1 4	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1985.00 1985.00 1986.00 1989.00 1990.00 1990.00	C* CSR	FRERE	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE FRECAS MOVE PROTAS MOVE PROTAS MOVE PRECAS MOVE PRECAS MOVE PRECAS MOVE PRECAS MOVE PRECAS MOVE PREVAL MOVE PREVAL	BeXDS TEXDS EEXDS CEXDS GEXDS FEXDS SEXDS REXDS DEXDS	1 1 50 20 1 4 2	81	
1979.00 1980.00 1981.00 1981.00 1981.00 1981.00 1985.00 1986.00 1986.00 1988.00 1989.00 1990.00 1991.00	C* CSR	PRERA	PARM IPEQ 'O' MOVE PRODACE MOVE PROTAT MOVE FRECA MOVE PROTAS MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE FRACE MOVELLPRSY MOVE FRACE M	BeXDS TeXDS EWXDS CWXDS GWXDS GWXDS FWXDS FWXDS AWXDS AWXDS LWXDS	1 50 20 1 4 2 40 40	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1985.00 1988.00 1988.00 1989.00 1990.00 1991.00 1992.00	C* CSR	FRERI	PARM IPPQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL	BeXDS TeXDS EeXDS CeXDS GeXDS FeXDS SeXDS ReXDS DeXDS LeXDS LeXDS UeXDS	1 1 50 20 1 4 2 40 40 40	81	
1979.00 1981.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1991.00 1992.00 1992.00	C* CSR	PREER	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAS MOVE PROTAS MOVE PROTAS MOVE PROVAL MOVE PREVAL	BeXDS TeXDS CeXDS CeXDS GeXDS FeXDS ReXDS ReXDS LeXDS LeXDS UeXDS WeXDS	1 50 20 1 4 2 40 40 40 40	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1984.00 1985.00 1985.00 1986.00 1986.00 1988.00 1990.00 1990.00 1991.00 1992.00 1993.00 1993.00	C* CSR	PRERR	PARM IPRO 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PREVAL	BeXDS TeXDS EeXDS CeXDS GeXDS GeXDS ReXDS ReXDS ReXDS LeXDS UEXDS UEXDS UEXDS	1 50 20 1 4 2 40 40 40 40 40	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1985.00 1985.00 1986.00 1987.00 1988.00 1999.00 1999.00 1991.00 1991.00 1992.00 1995.00 1995.00 1995.00	C* CSR	PREER	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROVAL	BeXDS TeXDS CeXDS GeXDS GeXDS FeXDS SeXDS DeXDS DeXDS LeXDS UeXDS UeXDS UeXDS NeXDS	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1991.00 1992.00 1992.00 1998.00 1998.00 1998.00 1998.00 1999.00 1999.00 1991.00 1992.00 1992.00 1992.00 1992.00	C* CSE	PRERI	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE FRAVAL MOVE PRUVAL	BeXDS TeXDS EAXDS GEXDS GEXDS FEXDS FEXDS DEXDS LEXDS UEXDS UEXDS UEXDS MEXDS FEXDS	1 50 20 1 4 2 40 40 40 40 40	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1985.00 1985.00 1986.00 1987.00 1988.00 1999.00 1999.00 1991.00 1991.00 1992.00 1995.00 1995.00 1995.00	C* CSR	PREER	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROVAL	BeXDS TeXDS CeXDS GeXDS GeXDS FeXDS SeXDS DeXDS DeXDS LeXDS UeXDS UeXDS UeXDS NeXDS	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1983.00 1985.00 1985.00 1988.00 1988.00 1999.00 1991.00 1992.00 1992.00 1992.00 1992.00	C* CSE	PRERI	PARM IPPQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL	BeXDS TeXDS EAXDS GEXDS GEXDS FEXDS FEXDS DEXDS LEXDS UEXDS UEXDS UEXDS MEXDS FEXDS	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1981.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1988.00 1998.00 1999.00 1991.00 1992.00 1992.00 1992.00 1992.00 1992.00 1998.00 1998.00	C* CSE	PREER	PARM IPEQ 'O' MOVE PREDSCR MOVE PREDTAT MOVE PREDTAS MOVE PREDTAS MOVE PREDTAD MOVE PREDEAL MOVE PREDVAL MOVE PREVAL MOVE PALDS DO #A	BeXDS TeXDS EEXDS EEXDS GEXDS GEXDS FEXDS SEXDS REXDS DEXDS AEXDS LEXDS UEXDS UEXDS JEXDS JEXDS ##A	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1981.00 1982.00 1983.00 1983.00 1984.00 1985.00 1985.00 1989.00 1989.00 1990.00 1991.00 1991.00 1992.00 1992.00 1992.00 1992.00 1992.00 1993.00	C* CSE	PRERI	PARM IPRO 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROVEL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PRINK MOVE PANDS DO #A MEUT 10	BeXDS TeXDS EAXDS GEXDS GEXDS FEXDS FEXDS DEXDS LEXDS UEXDS UEXDS UEXDS MEXDS FEXDS	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1981.00 1982.00 1982.00 1983.00 1984.00 1985.00 1986.00 1988.00 1999.00 1999.00 1991.00 1992.00 1993.00 1993.00 1995.00 1995.00 1996.00 1997.00 1998.00 1999.00 2000.00 2001.00 2002.00	C* CSE	PREER	PARM IPEQ 'O' MOVE PREDCE MOVE PREDTAT MOVE FRECTAD MOVE PREDTAD MOVE PREDCE MOVELLFRSY MOVE PREVAL MOVE PALS MOVE PALS MOVE PALS MOVE PALS E-1DD1 MOVE PALS DO #A MULT 10 END	BeXDS TeXDS EEXDS EEXDS GEXDS GEXDS FEXDS SEXDS REXDS DEXDS AEXDS LEXDS UEXDS UEXDS JEXDS JEXDS ##A	1 50 20 1 4 2 40 40 40 40 1 20	81	
1979.00 1980.00 1981.00 1981.00 1982.00 1983.00 1984.00 1985.00 1986.00 1988.00 1998.00 1999.00 1991.00 1992.00 1992.00 1992.00 1992.00 1992.00 1998.00 1998.00	C* CSE		PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE	BeXDS TeXDS EXXDS CeXDS CeXDS GEXDS FEXDS LEXDS LEXDS UEXDS	1 1 50 20 1 4 2 40 40 40 40 10 1		

Figure D-36 Item Master Information report (27 of 32)

2006.00	C*	Dictionary par	ameters for - Date	Last Shi	ip.	
2007.00	C.					
	CSR		MOVE *BLANK	PROTAT		
2009.00	CSR		MOVEL'XDT'	PROTAI		
2010.00	CSR		CALL 'X9800E'			81
2011.00	C*					
2012.00	CSR		PARM	19800E		
	CSR	FREER	IFRQ '0'			
	CER		MOVE PRDSCR	BexDT	40	
	CSR			TaxDT	-	
2015.00			MOVE FRDTAT		1	
2016.00	CSR		MOVE FREC	EWXDT	1	
2017.00	CSR		MOVE FRDTAS	CaxDT	50	
2018.00	CGR		MOVE PROTAD	GaXDT	20	
2019.00	CSR		MOVE PRODEC	POXDT	1	
2020.00	CSR		MOVELFRSY	SWXDT	4	
2021.00	CSR		MOVE FRRT	ROXDT	2	
2022.00	CSR		MOVE FROVAL	DaxDT	40	
	CSR		MOVE FRVAL	ASXDT	40	
2024.00	CSR		MOVE FRLVAL	Lexpr		
2025.00	CSR		MOVE PRUVAL	USXDT	40	
2026.00	CSR		MOVE PREDWR	WEXDT	30	
2027.00	CSR		MOVE PRLR	Jaxot	1	
2028.00	CSR		MOVE PRINTIX	MaxDT	20	
	CSR			TABLE T		
2029.00	10.000		Z-ADD1	#axDT	110	
2030.00	CSR		MOVE PAXOT	#A		
2031.00	CSR		DO #A			
2032.00	CSR		MULT 10	#GXDT		
2033.00	CSR		END			
2034.00	CSR		END			
2035.00	C*					
2036.00	C*					
2037.00	C.			**		
		Dictionary par	ameters for - Item	10		
2038.00	C*					
2039.00	CSR		MOVE *BLANK	PROTAI		
2040.00	CSR		MOVEL'XIT'	PROTAI		
2041.00	CSR		CALL 'X9800E'			81
2042.00	C*					
2043.00	CSR		PARM	19800E		
2044.00	CSR	FRERR	IPEO 'O'			
2045.00	CSR	700000000		DAVET	40	
	CSR		MOVE PROTAT	DOXIT TOXIT	1	
2047.00	CSR		MOVE FREC	ESXIT	0.077	
2048.00	CSR		MOVE FRDTAS	CSXIT	50	
2049.00	CSR		MOVE FROTAD	GRXIT	20	
2050.00	CSR		MOVE PRODEC	Paxit	1	
2051.00	CGR		MOVELLPRSY	SOXIT	4	
2052.00	CSR		MOVE FRRT	ROXIT	2	
2053.00	CSR		MOVE FROVAL		40	
				11		
2054.00	CSR		MOVE FRVAL	ASXIT	40	
2055.00	CSR		MOVE FRLVAL	Lexit	40	
2056.00	CSR		MOVE FRUVAL	UaxiT	40	
2057.00	CSR		MOVE PREDWR	WaxIT	3.0	
2058.00	CSR		MOVE FRLR	Jexit	1	
2059.00	CSR		MOVE FRNNIX	Naxit		
2060.00	CSR		Z-1001	#GXIT		
	CSR			#AALL	440	
2061.00			MOVE FEXZT	#0		
2062.00	CSR		DO #A			
2063.00	CSR		MULT 10	#exit		
2064.00	CSR		END			
2065.00	CSR		END			
2066.00	C*					
	80					
2067.00	C*					
	C.	Distingary nav	ameters for - gnan	tity on a	tand	
		programary bar	ameters for - ghan	erea on a	nont sta	
	C.		\$640000 (6500 COA)	0000000000		
2070.00	CSR		MOVE *BLANK	PROTAI		
2071.00	CSR		MOVEL'XQT'	PROTAI		
2072.00	CSR		CALL 'X9800E'			61
2073.00	C*					and the second
2074.00	CSR		PARM	19800E		
		TO 100 100		T3800E		
	CSR	FRERR	IFEQ '0'			
2076.00	CSR		MOVE PRDSCR	Bekor		
2077.00	CSR		MOVE FROTAT	TaxqT	1	
2078.00	CSR		MOVE FREC	ESXQT	1	
2079.00	C5R		MOVE FRDTAS	CHXQT	50	
2080.00	CSR		MOVE FROTAD	GaXQT	20	
	CSR		MOVE PRODEC	PaxQT		
2081.00	CSR		MOVELFRSY	GSXQT	4	

Figure D-37 Item Master Information report (28 of 32)

2083.00	CSR		MOVE PRET	RXQT	2	
2054.00	CSR		MOVE PROVAL	DEXOT		
2085.00	CSR		MOVE PRVAL	AGXQT	40	
2086.00	CSR		MOVE PRLVAL	Lexor	40	
2087.00	CSR		MOVE PRUVAL	URXOT	40	
2088.00	CSR		MOVE PREDWR	Wexor	30	
2089.00	CSR		MOVE FRLR	Jexor		
2090.00	CSR		MOVE PRINIX	Nexor	20	
2091.00	CGR		E-ADD1	#exQT		
2092.00	CSR		MOVE PAXOT	#A	110	
2093.00	CSR		DO #A	#24		
2094.00	CSR		MULT 10	#GXQT		
2095.00	CSR		END 10	#evő1		
			END			
2096.00	CSR					
2097.00						
2098.00	C*			-		
2099.00	C*	Dictionary par	ameters for - Item	Type		
2100.00	C*					
2101.00	CSR		MOVE *BLANK	PRIMAI		
2102.00	CSR		MOVEL'XTY'	PRDTAI		
2103.00	CSR		CALL 'X9800E'			81
2104.00	C*					
2105.00	CSR		PARM	19800E		
2106.00	CSR	FRERR	IPEQ 'O'			
2107.00	CSR		MOVE PROSCR	Bexty		
2108.00	CSR		MOVE PROTAT	TOXTY	1	
2109.00	CSR		MOVE PREC	RexTY	1	
2110.00	CSR		MOVE FROTAS	COXTY	50	
2111.00	CSR		MOVE PROTAT	GeXTY	20	
2112.00	CGR		MOVE PRODEC	FEXTY	1	
2113.00	CSR		MOVELPRSY	SOXTY	4	
2114.00	CSR		MOVE FRRT	REXTY	2	
2115.00	CSR		MOVE PROVAL	Dexty	40	
2116.00	CSR		MOVE PRVAL	AGETY	40	
2117.00	CSR		MOVE PRLVAL	LexTY	40	
2118.00	CSR		MOVE PRUVAL	UexTY	40	
2119.00	CSR		MOVE FREDWR	WEXTY	30	
2120.00	CSR		MOVE FRLR	Jexty	1	
2121.00	CSR		MOVE FRNNIX	NexTY	20	
2122.00	CSR		Z-ADD1		110	
2123.00	CCR		MOVE PAXTY	#A	110	
2124.00	CSR		DO #A	#0		
2125.00	CSR		MULT 10	#exTY		
2126.00	CSR		END	******		
2127.00	CSR		END			
2128.00						
	0.0					
2129.00						
		Dictionary nar	ameters for - Item	thit of	feasure	
2130.00 2131.00	C.	precrosser, bur	amerers for - free	our or	HE GROWN OF	
2132.00	CSR		MOVE *BLANK	PRDTAI		
2133.00	CSE		MOART, XAM,	PRDTAI		
2134.00	CSR		CALL 'X9800E'	FEW ACA		81
	04					
2135,00	C*					
2135.00 2136.00	CSR	-	PARM	19800E		
2135.00 2136.00 2137.00	CSR	FRERR	PARM IFEQ '0'	19800E	**	
2135.00 2136.00 2137.00 2138.00	CSR CSR CSR	FRERR	PARM IPEQ '0' MOVE PRDSCR	19800E BexUM	40	
2135.00 2136.00 2137.00 2138.00 2139.00	CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PROSCR MOVE PROTAT	19600E BEXUM TEXUM	1	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00	CSR CSR CSR CSR	FRERR	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PREC	I9800E BeXUM TeXUM EeXUM	1	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00	CSR CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PREC MOVE PROTAS	19800E BeXUM TeXUM EeXUM CeXUM	1 1 50	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00	CSR CSR CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PRESCR MOVE PRETAT MOVE PRETAS MOVE PRETAS	I 9800E BEXUM TEXUM EEXUM CEXUM GEXUM	1 1 50 20	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00	CSR CSR CSR CSR CSR CSR CSR	FRERR	PARM IPEQ 'O' MOVE PRESCR MOVE PRETAT MOVE PRETAS MOVE PRETAD MOVE PRETAD	19800E Bexum Texum Eexum Cexum Gexum Fexum	1 50 20	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2144.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PRESCR MOVE PRETAT MOVE PRETAS MOVE PRETAD MOVE PRETAD MOVE PRETAD	19800E Baxum Taxum Baxum Caxum Gaxum Faxum Saxum	1 50 20 1	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00 2144.00 2145.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERE	PARM IFEQ 'O' MOVE PRESCR MOVE PRETAT MOVE PRETAD	19600E Baxum Taxum Baxum Caxum Gaxum Faxum Saxum Raxum	1 50 20 1 4	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2144.00 2144.00 2144.00 2146.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERR	PARM IFEQ 'O' MOVE PREDICT MOVE PREDIAT MOVE PREDIAS MOVE PREDIAD MOVE PREDE MOVE PREDE MOVE PRED MOVE MOVE MOVE MOVE MOVE MOVE MOVE MOVE	19600E BexUM TexUM EexUM CexUM GexUM FexUM SexUM SexUM RexUM	1 50 20 1	
2135.00 2136.00 2137.00 2139.00 2139.00 2141.00 2141.00 2142.00 2142.00 2145.00 2145.00 2147.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERE	PARM IPEQ 'O' MOVE PRESCR MOVE PRESCR MOVE PRETAT MOVE PRETATA MOVE PREVAL	DEXUM TEXUM EEXUM CEXUM GEXUM FEXUM SEXUM FEXUM SEXUM REXUM REXUM AEXUM	1 50 20 1 4 2 40 40	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2144.00 2144.00 2144.00 2146.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PRERE	PARM IFEQ 'O' MOVE PREDICT MOVE PREDIAT MOVE PREDIAS MOVE PREDIAD MOVE PREDE MOVE PREDE MOVE PRED MOVE MOVE MOVE MOVE MOVE MOVE MOVE MOVE	19600E BexUM TexUM EexUM CexUM GexUM FexUM SexUM SexUM RexUM	1 50 20 1 4 2	
2135.00 2136.00 2137.00 2139.00 2139.00 2141.00 2141.00 2142.00 2142.00 2145.00 2145.00 2147.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERE	PARM IFEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE PROVAL MOVE PROVAL	DEXUM TEXUM EEXUM CEXUM GEXUM FEXUM SEXUM FEXUM SEXUM REXUM REXUM AEXUM	1 50 20 1 4 2 40 40	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2142.00 2144.00 2145.00 2146.00 2147.00 2146.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PRERE	PARM IFEQ 'O' MOVE PROCCE MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVELPRSY MOVELPRSY MOVE PROVAL MOVE PROVAL MOVE PROVAL	19800E BEXUM TEXUM ESXUM CEXUM GEXUM FEXUM SEXUM REXUM REXUM DEXIM	1 50 20 1 4 2 40 40	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00 2144.00 2144.00 2146.00 2146.00 2147.00 2149.00 2149.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERE	PARM IPEQ 'O' MOVE PRESCR MOVE PRECTAT MOVE PRECTAS MOVE PRECTAS MOVE PRECTAS MOVE PRECTAS MOVE PRECTAS MOVE PRECTAS MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PRECAR	19800E BEXUM TEXUM EEXUM GEXUM GEXUM FEXUM SEXUM SEXUM SEXUM DEXUM LEXUM LEXUM	1 50 20 1 4 2 40 40 40	
2135.00 2136.00 2137.00 2139.00 2139.00 2140.00 2141.00 2142.00 2143.00 2145.00 2146.00 2147.00 2146.00 2149.00 2149.00 2151.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PRERA	PARM IFEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PRODEC MOVELPRSY MOVE PRANAL MOVE PROVAL MOVE PREVAL	19800E BEXUM TEXUM ESXUM CEXUM GEXUM FEXUM SEXUM FEXUM SEXUM LEXUM LEXUM LEXUM MEXUM MEXUM MEXUM MEXUM MEXUM MEXUM	1 50 20 1 4 2 40 40 40 40 30	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00 2144.00 2144.00 2146.00 2146.00 2147.00 2149.00 2149.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FRERE	PARM IPEQ 'O' MOVE PRESCR MOVE PRESCR MOVE PRETAT MOVE PRETAT MOVE PRETAT MOVE PRETAT MOVE PRETAT MOVE PRETAT MOVE PREVAL MOVE PREMAR MOVE PREMAR MOVE PREMAR	19800E BEXUM TEXUM EEXUM CEXUM GEXUM FEXUM FEXUM REXUM	1 50 20 1 4 2 40 40 40 40 40 30 1 20	
2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2142.00 2143.00 2145.00 2146.00 2147.00 2148.00 2149.00 2150.00 2150.00 2151.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PRERE	PARM IFEQ 'O' MOVE PREDECT MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDEC MOVELPRSY MOVE PREVAL M	19600E BEXUM TEXUM ESTUM GEXUM GEXUM GEXUM FEXUM FEXUM FEXUM LEXUM	1 50 20 1 4 2 40 40 40 40 40 30	
2135.00 2137.00 2137.00 2139.00 2140.00 2141.00 2141.00 2142.00 2143.00 2144.00 2144.00 2146.00 2147.00 2148.00 2149.00 2151.00 2151.00	CSR	FRERE	PARM IPRO 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVE MOVE PROVAL	19800E BEXUM TEXUM EEXUM CEXUM GEXUM FEXUM FEXUM REXUM	1 50 20 1 4 2 40 40 40 40 40 30 1 20	
2135.00 2137.00 2137.00 2139.00 2149.00 2141.00 2141.00 2142.00 2143.00 2144.00 2145.00 2146.00 2150.00 2150.00 2150.00 2151.00 2151.00 2151.00 2151.00 2151.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FREEL	PARM IFEQ 'O' MOVE PREDECT MOVE PREDEAT MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREVAL MOVE PREV	1980 OE BEXUM TEXUM EEXUM CEXUM CEXUM FEXUM SEXUM SEXUM DEXUM DEXU	1 50 20 1 4 2 40 40 40 40 40 30 1 20	
2135.00 2137.00 2137.00 2139.00 2149.00 2140.00 2141.00 2142.00 2144.00 2145.00 2146.00 2147.00 2149.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00 2150.00	CSR	PRERA	PARM IPEQ 'O' MOVE PROSCR MOVE PROTAT MOVE PROTAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PROTAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PROVAL MOVE PREVAL MOV	19600E BEXUM TEXUM ESTUM GEXUM GEXUM GEXUM FEXUM FEXUM FEXUM LEXUM	1 50 20 1 4 2 40 40 40 40 40 30 1 20	
2135.00 2137.00 2137.00 2139.00 2149.00 2141.00 2141.00 2142.00 2143.00 2144.00 2145.00 2146.00 2150.00 2150.00 2150.00 2151.00 2151.00 2151.00 2151.00 2151.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	FREEZ	PARM IFEQ 'O' MOVE PREDECT MOVE PREDEAT MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREDATA MOVE PREVAL MOVE PREV	1980 OE BEXUM TEXUM EEXUM CEXUM CEXUM FEXUM SEXUM SEXUM DEXUM DEXU	1 50 20 1 4 2 40 40 40 40 40 30 1 20	

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2160.00	C*					
2161.00	C*	Dictionary param	meters for - Item	Category	Code 001	
2162.00	C*					
2163.00	CSR		MOVE *BLANK	PROTAI		
2164.00	CSR		WOART, X001,	PROTAI		
2165.00	CSR		CALL 'X9800E'			81
2166.00	C*					
2167.00	CSR		PARM	19500E		
2168.00	CSR	PRERR	IFEQ '0'			
2169.00	CSR		MOVE FRDSCR	B@X001	40	
2170.00	CSR		MOVE FRDTAT	Texool	1	
2171.00	CSR		MOVE FREC	EaX001	1	
2172.00	CSR		MOVE FRDTAS	Caxoo1	50	
2173.00	CSR		MOVE FROTAD	GaX001	20	
2174.00	CSR		MOVE FRCDEC	FeX001	1	
2175.00	CSR		MOVELFRST	S0X001	4	
2176.00	CSR		MOVE FRRT	R@X001	2	
2177.00	CSR		MOVE FROVAL	Daxool	40	
2178.00	CER		MOVE FRVAL	A9X001	40	
2179.00	CSR		MOVE FRIVAL	Laxool	40	
2180.00	CSR		MOVE FROVAL	Uaxoo1	40	
2181.00	CSR		MOVE FREDWR	Waxoo1	30	
2182.00	CSR		MOVE FRLR	Jax001	1	
2183.00	CSR		MOVE FRANKIX	190X001	20	
2184.00	CSR		Z-ADD1	#ex001	110	
2185.00	CSR		MOVE Paxool	#A	9200	
2186.00	CSR		DO #A	100000		
2187.00	CSR		MULT 10	#@X001		
2188.00	CSR		RND			
2189.00	CSR		END			
2190.00	C*					
2191.00	C.					
2192.00		Dictionary param	meters for - Item	Category	Code 002	
2193.00						
2194.00	CSR		MOVE *BLANK	PROTAI		
2195.00	CSR		MOVEL'X002'	PRDTAI		
2196.00	CSR		CALL 'X9800E'	V,500-5000		81
2197.00	C.					
2198.00	CSR		PARM	19800E		
2199.00	CSR	PRERR	IFEQ '0'			
2200.00	CSR		MOVE FRDSCR	PaX002	40	
2201.00	CSR		MOVE FRDTAT	Texo02	1	
2202.00	CSR		MOVE FREC	EaX002	1	
2203.00	CSR		MOVE FRDTAS	CaX002	50	
2204.00	CSR		MOVE FEDTAD	G8X002	20	
2205.00	CSR		MOVE FRCDEC	F@X002	1	
2206.00	CSR		MOVELFRST	S@X002	4	
2207.00	CSR		MOVE FERT	R@X002	2	
2208.00	CSR		MOVE FROVAL	Dax002	40	
2209.00	CSR		MOVE FRVAL	A9X002	40	
2210.00	CSR		MOVE FRIVAL	Lexo02	40	
2211.00	CSR		MOVE FROVAL	UaX002	40	
2212.00	CER		MOVE FREDWR	WaX002	30	
2213.00	CSR		MOVE FRLR		1	
2214.00	CSR		MOVE FRANKIX	Jex002 Nex002	20	
2215.00	CSR		Z-ADD1	#9X002	110	
2216.00	CSR		MOVE FEXOUS	#8	7.17	
2217.00	CSR		DO #A	5,000		
2218.00	CSR		MULT 10	#@X002		
2219.00	CSR		RND			
2220.00	CSR		END			
2221.00						
2222.00	C+					
2223.00	C*	Dictionary param	meters for - Item	Category	Code 003	
2224.00	C*	Para				
2225.00	CSR		MOVE *BLANK	PROTAI		
2226.00	CSR		MOVEL'X003'	PROTAI		
2227.00	CSR		CALL 'X9800B'	The Late		81
2228.00	C*		CADE X9000B			The state of the s
2228.00	CSR		PARM	19800E		
		Denne	IPED '0'	13000%		
2230.00	CSR	PRERR		- Barress		
	CSR		MOVE FRDSCR	Bax003	40	
2231.00	CSR		MOVE FRDTAT	Texoos	1	
2232.00				E#X003	1	
2232.00 2233.00	CSR		MOVE FREC		-	
2232.00 2233.00 2234.00	CSR		MOVE FRDTAS	CaX003	50	
2232.00 2233.00	CSR				50 20	

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2237.00	CSR		MOVELPRSY	S8X003	4	
2238.00	CSR		MOVE FRRT	R#X003	2	
2239.00	CSR		MOVE PROVAL	D@X003	40	
2240.00	CSR		MOVE PRVAL	Aex003	40	
2241.00	CSR		MOVE PRLVAL	L4X003	40	
2242.00	CSR		MOVE PROVAL	U0X003	40	
2243.00	CSR		MOVE PREDWR	Wax003		
2244.00	CSR		MOVE FRLR	Jax003	1	
2245.00	CSR		MOVE PRINKIX	N#X003		
2246.00	CSR		Z-ADD1	#@X003	110	
2247.00	CSR		MOVE Pax003	ΨA		
2248.00	CSE		DO #A			
2249.00	CSR		MULT 10	#ex003		
2250.00	CSE		FND			
2251.00	CSE		END			
2252.00	C*		The second secon			
2253.00						
2254.00	C.	Distingui pass	obone for Thom	Cabanana	code cod	
	C.	Dictionary param	secera for - item	category	Code 004	
2255.00	C*		Charles Commission			
2256.00	CSR		MOVE *BLANK	PRDTAI		
2257.00	CSR		MOVEL'X004'	PRDTAI		
2258.00	CSR		CALL 'X9800E'			81
2259.00	C*					
2260.00	CSE		PARM	19800E		
2261.00	CSR	FRERR	IPEQ 'O'			
2262.00	CSR		MOVE PROSCR	B#X004	40	
2263.00	CSR		MOVE FROTAT	T0X004		
2264.00	CSR		MOVE FREC	B8X004		
2265.00	CSE		MOVE PROTAS	Cax004		
2266.00	CSE		MOVE PROTAD	G#X004	20	
2267.00	CSE		MOVE PRODEC	Pax004		
2268.00	CSE		MOVELPRSY	S@X004	4	
	CSE			B@X004		
2269.00			MOVE FRRT			
2270.00	CSR		MOVE PROVAL	DeX004		
2271.00	CSR		MOVE PRVAL	A@X004	40	
2272.00	CSR		MOVE PRLVAL	L@X004	40	
2273.00	CSR		MOVE PROVAL	U8X004	40	
2274.00	CSR		MOVE PREDWR	W@X004		
2275.00	CSR		MOVE FRLR	J@X004	1	
2276.00	CSR		MOVE PRNNIX	Nex004	20	
2277.00	CER		Z-ADD1	##X004	110	
2278.00	CSR		MOVE PRX004	#A		
2279.00	CSR		DO EA			
2280.00	CSR		MULT 10	##X004		
2281.00	CSE		END			
2282.00	CSE		END			
2283.00	C*					
2284.00	C*					
2285.00	C*	Dictionary param	seters for - Item	Category	code nos	
2286.00	C*	Pool				
2287.00	CSR		MOVE *BLANK	PRDTAI		
2288.00	CSE		MOVEL'X005'	PROTAI		
2289.00	CSR		CALL 'X9800E'	FARTHE		81
2209.00	Can		CALL ASSUUE			V.A.
	CGR		DARM	T00000		
	CSR	PRERR	IPEQ 'O'	19800E		
		FRERR	TRECO . D.			
2291.00 2292.00			******			
2292.00 2293.00	CSR		MOVE PRDSCR	Bex005	40	
2292.00 2293.00 2294.00	CSR		MOVE PRDSCR MOVE PRDTAT	T0X005	1	
2292.00 2293.00 2294.00 2295.00	CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PREC	Textoos Bextoos	1	
2292.00 2293.00 2294.00 2295.00 2296.00	CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PREC MOVE PRDTAS	Textoos Eextoos Cextoos	1 1 50	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00	CSR CSR CSR CSR		MOVE PROSCR MOVE PROTAT MOVE PREC MOVE PROTAS MOVE PROTAD	TeX005 EeX005 CeX005 GeX005	1 1 50 20	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00	CSR CSR CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PRDTAS MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC	Textoos Bextoos Cextoos Gextoos Pextoos	1 50 20	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00 2299.00	CSR CSR CSR CSR CSR CSR		MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PRODEC MOVELPRSY	TeX005 EeX005 CeX005 GeX005 PeX005 SeX005	1 50 20 1	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2297.00 2298.00 2299.00	CSR CSR CSR CSR CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELPRSY MOVE PRET	TeX005 BeX005 CeX005 GeX005 PeX005 SeX005 ReX005	1 50 20 1 4	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00	CSR CSR CSR CSR CSR CSR		MOVE PROSCR MOVE PROTAT MOVE PROTAS MOVE PROTAS MOVE PROTAD MOVE PRODEC MOVELPRSY	TeX005 EeX005 CeX005 GeX005 PeX005 SeX005	1 50 20 1 4	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2297.00 2298.00 2299.00	CSR CSR CSR CSR CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELPRSY MOVE PRET	TeX005 BeX005 CeX005 GeX005 PeX005 SeX005 ReX005	1 50 20 1 4 2	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2297.00 2298.00 2299.00 2300.00 2301.00	CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRDSCR MOVE PRDTAT MOVE PREC MOVE PRDTAD MOVE PRCDEC MOVELPRSY MOVE PRRT MOVE PREVAL	Tex005 Eex005 Cex005 Gex005 Pex005 Sex005 Rex005 Dex005	1 50 20 1 4 2 40	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2303.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRESCR MOVE PREVAL MOVE PREVAL MOVE PREVAL	Tex005 Eex005 Cex005 Gex005 Pex005 Sex005 Rex005 Dex005 Aex005 Lex005	1 50 20 1 4 2 40 40	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2302.00 2304.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRESCR MOVE PRETAT MOVE PRETAS MOVE PRETAS MOVE PRETAS MOVE PRETAS MOVE PRETAS MOVE PRETA MOVE PRETA MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL	T9X005 B9X005 C9X005 G9X005 P9X005 S9X005 D9X005 A9X005 L9X005 U9X005	1 50 20 1 4 2 40 40 40	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00 2300.00 2301.00 2302.00 2303.00 2304.00 2305.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PROSCR MOVE PROTAT MOVE PRECE MOVE PROTAD MOVE PROTAD MOVE PRODEC MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL	Text 0.05 Eext 0.05 Cext 0.05 Gext 0.05 Fext 0.05 Fext 0.05 Dext 0.05 Lext 0.05 Uext 0.05 Wext 0.05	1 50 20 1 4 2 40 40 40 40 30	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2299.00 2301.00 2301.00 2302.00 2302.00 2305.00 2305.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRISCR MOVE PREDIAT MOVE PREDIAT MOVE PREDIAD MOVE PREDIAD MOVE PREDIAD MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREDIAR MOVE PREDIAR MOVE PREDIAR MOVE PREDIAR MOVE PREDIAR	Textoos Bextoos Cextoos Gextoos Bextoos Bextoos Dextoos Aextoos Lextoos Uextoos Wextoos Jextoos	1 1 50 20 1 4 2 40 40 40 40 40 30	
2292.00 2293.00 2294.00 2295.00 2297.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2303.00 2304.00 2305.00 2305.00 2307.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRISCR MOVE PROTAT MOVE PROTAT MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL MOVE PREVAL MOVE PREVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL MOVE PRIVAL	T9X005 B9X005 G9X005 G9X005 B9X005 B9X005 D9X005 A9X005 L9X005 U9X005 W9X005 J9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	
2292.00 2293.00 2294.00 2295.00 2297.00 2299.00 2299.00 2300.00 2301.00 2302.00 2302.00 2303.00 2305.00 2306.00 2306.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRISCR MOVE PROTAT MOVE PREDAT MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PREVAL MOVE PREVAL	T9X005 B9X005 G9X005 G9X005 B9X005 B9X005 D9X005 A9X005 L9X005 M9X005 M9X005 M9X005 M9X005 M9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	
2292.00 2293.00 2294.00 2295.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2303.00 2304.00 2305.00 2306.00 2307.00 2308.00 2309.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRISCR MOVE PREDAT MOVE PREDAT MOVE PREDAS MOVE PREDAD MOVE PREDAD MOVE PREDAD MOVE PREVAL MOVE PRIVAL MOVE PREVAL MOVE P	T9X005 B9X005 G9X005 G9X005 B9X005 B9X005 D9X005 A9X005 L9X005 U9X005 W9X005 J9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	
2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2303.00 2304.00 2305.00 2306.00 2307.00 2308.00 2308.00 2308.00 2309.00	CSR		MOVE PRISCR MOVE PROTAT MOVE PROTAT MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREJOR MOVE P	T9X005 B9X005 G9X005 G9X005 P9X005 R9X005 D9X005 A9X005 L9X005 L9X005 M9X005 M9X005 H9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2297.00 2300.00	CSR		MOVE PRESCR MOVE PREDTAT MOVE PREDTAT MOVE PREDTAS MOVE PRETAD MOVE PRETAD MOVE PREVAL MOVE PRENAN MOVE PRESCR MOVE PELIR MOVE PRESCR MOVE PREVAL MOVE	T9X005 B9X005 G9X005 G9X005 B9X005 B9X005 D9X005 A9X005 L9X005 M9X005 M9X005 M9X005 M9X005 M9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	
2292.00 2293.00 2294.00 2295.00 2295.00 2297.00 2298.00 2299.00 2300.00 2301.00 2302.00 2302.00 2304.00	CSR		MOVE PRISCR MOVE PROTAT MOVE PROTAT MOVE PROTAS MOVE PROTAD MOVE PROTAD MOVE PROTAD MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREVAL MOVE PREJOR MOVE P	T9X005 B9X005 G9X005 G9X005 P9X005 R9X005 D9X005 A9X005 L9X005 L9X005 M9X005 M9X005 H9X005	1 1 50 20 1 4 2 40 40 40 40 30 1 20	



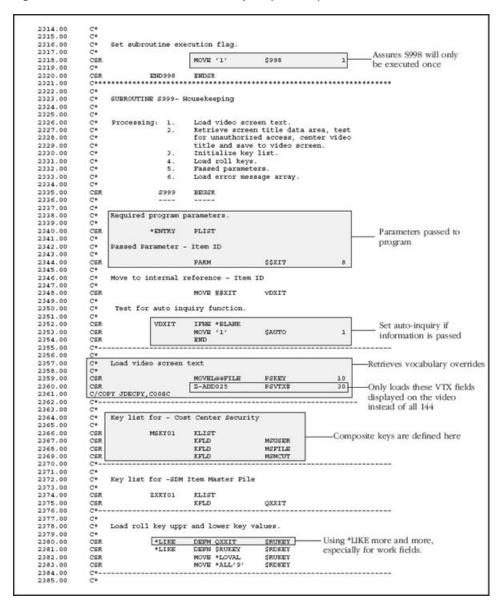
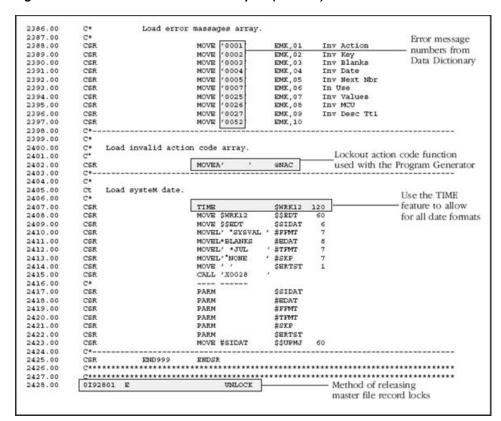


Figure D-41 Item Master Information report (32 of 32)



JD Edwards World Subroutines and Flows

This appendix contains these topics:

- Section E.1, "Subroutines,"
- Section E.2, "Flows."

E.1 Subroutines

Using subroutines:

- Allows for standard names to make program maintenance easier.
- Launch primarily from Mainline.

The following table includes internal RPG subroutines within JD Edwards World programs:

Subroutine	Description
S00EX	Processes all function exits. Choose a function exit and the system launches one of the following programs:
	 Display Functions (F24) to launch P9601H
	 Field Sensitive Help (F1) launches X96CCX. After X96CCX launches, the system launches subroutine S00VL.
	 Display Error Message (F7) launches P0000E
	 HELP launches P00HELP
	 Clear Screen (F22) launches subroutine S001
	 Launches all programs to process all user defined function keys
S00VL	Retrieves values with Field Level Help.
	After X96CCX launches, the system launches subroutine S00VL.
S00OP	Subfile Options.
S001	Clears all database and screen fields. This usually only clears key fields and VC0 fields if you choose Clear Screen (F22).
S002	Checks for level breaks for reports.
	 Activates level break markers.
	 Retrieves the total line description

Subroutine	Description
S003	Validates the key fields.
	Launches subroutine S998 if the system invokes auto inquire.
	Sets the file pointer.
	 Performs a SETLL and CHAIN if the program is a single record maintenance program
	 Performs a SETLL for subfile programs
	Launches subroutine S004 to load screen and report fields
	Monitors that subfile records load if this is a subfile
	Loads subfile records that the system does not use with blanks
S004	Display and load the screen or report fields.
S005	Scrubs and edits screen and report fields.
	 Moves screen data to database fields
	 Activates error indicators if a field value is in error
	 Updates records in the database file if this is a subfile
	 Updates the subfile
S010	For reports with level breaks it:
	Prints the total
	 Clears the level break totals
	 Prints the grand total when it reaches the end of the file
	Prints the detail
	 Adds to the new level break totals
	Launches subroutine S020 if this is a report with subheadings
	If this is not a report, S010 updates, adds, or deletes records from the database file.
	Deactivates the Clear Screen (F22) function and executes S001 to clear the buffer before reading another record.
S020	Print Report Subheadings.
S998	Loads Data Dictionary values, one time only.
	Retrieves row description for level breaks and subheadings, if applicable.
S999	Housekeeping, one time only.
	 Sets auto inquiry
	 Defines key lists
	 Retrieves processing options and level breaks, if applicable
	 Retrieves vocabulary overrides
	 Loads error messages
	Opens file
	 Retrieves the current date
	 Defines work fields using *LIKE
	 Prints cover page and Helps in a report

E.2 Flows

E.2.1 Interactive Non-Subfile Program

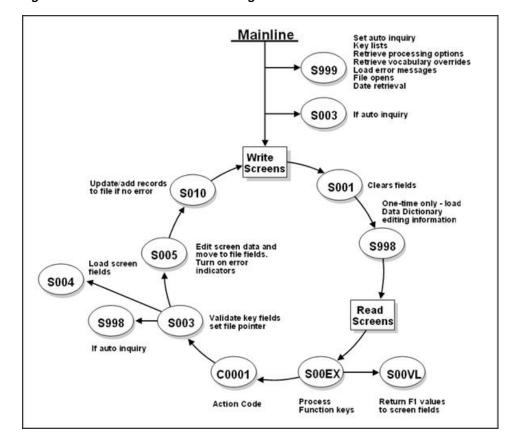


Figure E-1 Interactive Non-Subfile Program flow

E.2.2 Subfile Program with Options

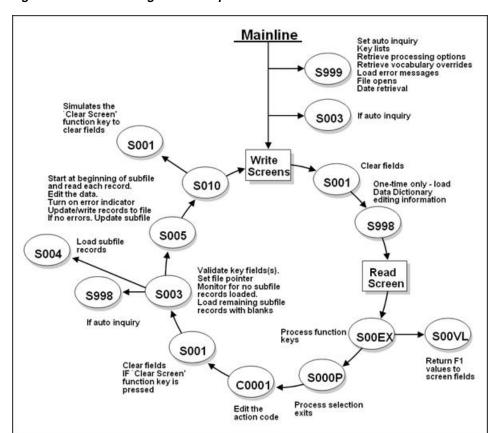


Figure E-2 Subfile Program With Options flow

E.2.3 Report Program without Subheadings

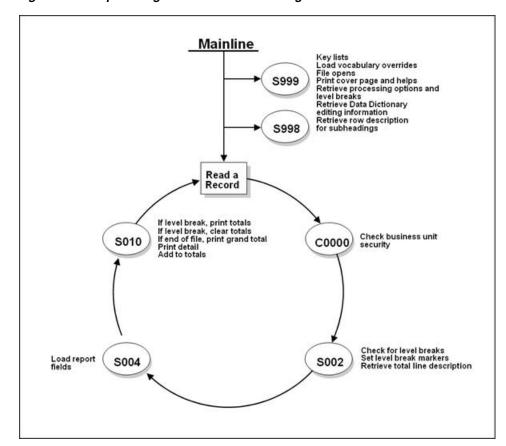


Figure E-3 Report Program Without Subheadings flow

E.2.4 Report Program with Subheadings

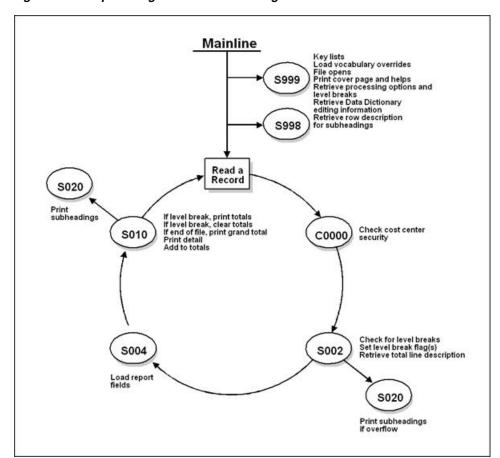


Figure E-4 Report Program With Subheadings flow

Sample Code

Following is the code to create the basic shell for program type B0010.

Figure F-1 Create/Modify (Basic Shell) screen

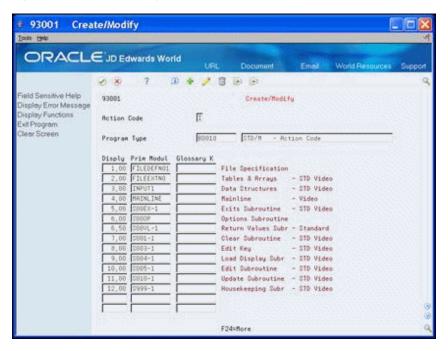


Figure F–2 Program Code for Program Type B0010 (1 of 11)

R93950	B001	.0 - STD/	M - Action Code		DATE - 2/02/17
TITLEH/TIT	LE			FILEDEFN01	001000000000
н*				FILEDEFN01	002000000000
31.4				FILEDEFN01	003000000000
H*	Copyright (c) 2007			FILEDEFN01	004000000000
31.4	JD Edwards World			FILEDEFN01 005000	000000
H*				FILEDEFN01	006000000000
31.0	This unpublished mater	rial is propri	etary to	FILEDEFN01	007000000000
H+	JD Edwards World. All	rights reser	ved.	FILEDEFN01 008000	000000
31.4	The methods and techni	ques describe	d herein are	FILEDEFN01	009000000000
II.	considered trade secre	ts and/or con	fidential.	FILEDEFN01	010000000000
31.0	Reproduction or distri	bution, in wh	ole or in part,	FILEDEFN01	011000000000
31*	is forbidden except by	express writ	ten permission	FILEDEFN01	012000000000
H*	of JD Edwards World.			FILEDEFN01 013000	000000
H.				FILEDEFN01	014000000000
н				FILEDEFN01	015000000000
L.				FILEDEFN01	016000000000
L.	PROGRAM REVISION LOG			FILEDEFN01	017000000000
L.				FILEDEFN01	018000000000
L.				FILEDEFN01	019000000000
L.	Date Programmer	Nature of	Revision	FILEDEFN01	020000000000
L.				FILEDEFN01	021000000000
AUTHRE*		SAR #	(AS/400 A/G)		022000000000
L.					023000000000
DESC F*					024000000000
L.					025000000000
Leave		***********			026000000000
L.					027000000000
FILESF*				FILEDEFN01	028000000000
COLL Leases			*******	FILEDEFN01	029000000000
E	************************	***********	*******	FILEECTNO	001000000000
E.	PROGRAM TABLES AND ARRAYS			FILEECTNO	002000000000
E.				FILEECTNO	003000000000
E.				FILEEXTNO	004000000000
E	EMIC	64 4	Error Mag	FILEECTNO	005000000000
E .	9100	64 1	Error Mag	FILEEXTNO	006000000000

Figure F-3 Program Code for Program Type B0010 (2 of 11)

E 9ER 64 4 E 9DV 40 1	Error Mag Dflt Wrk	FILEEXTNO FILEEXTNO	007000000000
E 9C 256 1	Literal Work	FILEEXTNO	
PY E*	DICEIRI MOIL	FILEERTNO	012000000000
I*************************************	*******	INPUT1	001000000000
I* PROGRAM INPUT SPECIFICATIONS AN	D DATA STRUCTURES	INPUT1	002000000000
I*		INPUT1	003000000000
I*		INPUT1	004000000000
I* Data Structure to Load Video Sc	reen Text	INPUT1	005000000000
I*		INPUT1	006000000000
S IDSTXT DS		IMPUT1	007000000000
X I	1 40 VTX001	IMPUT1	00800000000
X I	41 80 VTX002	INPUT1	009000000000
X I	81 120 VTX003 121 160 VTX004	INPUT1	01000000000
X I	161 200 VTX005	INPUT1	011000000000
X I	201 240 VTX006	INPUT1	013000000000
X I	241 280 VTX007	INPUT1	014000000000
X I	281 320 VTX008	INPUT1	015000000000
X I	321 360 VTX009	INPUT1	016000000000
X I	361 400 VTX010	INPUT1	017000000000
X I	401 440 VTX011	INPUT1	018000000000
X I	441 480 VTX012	INPUT1	019000000000
X I	481 520 VTX013	INPUT1	020000000000
3950 80010	- STD/M - Action Code		DRTE - 2/02/17
X I	521 560 VTX014	INPUT1	021000000000
X I	561 600 VTX015	INPUT1	022000000000
X I	601 640 VTX016	INPUT1	023000000000
X I	641 680 VTX017	INPUT1	024000000000
X I	681 720 VTX018	INPUT1	025000000000
X I	721 760 VTX019	INPUT1	026000000000
X I	761 800 VTX020	INPUT1	027000000000
X I	801 840 VTX021 841 880 VTX022	INPUT1	028000000000
X I	841 880 VTX022 881 920 VTX023	INPUT1	030000000000
X I	921 960 VTX024	INPUT1	031000000000
X I	9611000 VTX025	INPUT1	032000000000
X I	10011040 VTX026	INPUT1	033000000000
X I	10411080 VTX027	INPUT1	034000000000
X I	10811120 VTX028	INPUT1	035000000000
X I	11211160 VTX029	INPUT1	036000000000
X I	11611200 VTX030	INPUT1	037000000000
X I	12011240 VTX031	INPUT1	038000000000
X I	12411280 VTX032	INPUT1	039000000000
x I	12811320 VTX033	INPUT1	040000000000
x I	13211360 VTX034	INPUT1	041000000000
X I	13611400 VTX035	INPUT1	042000000000
X I	14011440 VTX036	INPUT1	043000000000
X I	14411480 VTX037	IMPUT1	044000000000
x I	14811520 VTX038	INPUT1	045000000000
X I	15211560 VTX039	INPUT1	046000000000
X I	15611600 VTX040 16011640 VTX041	INPUT1	047000000000
X I	16411680 VTX042	INPUT1	049000000000
	16811720 VTX043	INPUT1	050000000000
X I	17211760 VTX044	INPUT1	051000000000
X I	17611800 VTX045	INPUT1	052000000000
X I	18011840 VTX046	INPUT1	053000000000
X I	18411880 VTX047	INPUT1	054000000000
x I	18811920 VTX048	INPUT1	055000000000
X I	19211960 VTX049	INPUT1	056000000000
x I	19612000 VTX050	INPUT1	057000000000
X I	20012040 VTX051	INPUT1	058000000000
X I	20412080 VTX052	INPUT1	059000000000
X I	20812120 VTX053	INPUT1	06000000000
X I	21212160 VTX054	INPUT1	061000000000
X I	21612200 VTX055	INPUT1	062000000000
X I	22012240 VTX056 22412280 VTX057	INPUT1	063000000000 064000000000
X I	22412280 VTX057 22812320 VTX058	INPUT1	065000000000
X I	23212360 VTX059	INPUT1	06600000000
x I	23612400 VTX060	INPUT1	067000000000
x I	24012440 VTX061	INPUT1	068000000000
X I	24412480 VTX062	INPUT1	069000000000
x I	24812520 VTX063	INPUT1	070000000000
x I	25212560 VTX064	INPUT1	071000000000
x I	25612600 VTX065	INPUT1	072000000000
x I	26012640 VTX066	INPUT1	073000000000
x I	26412680 VTX067	INPUT1	074000000000
X I	26812720 VTX068	INPUT1	075000000000
X I	27212760 VTX069	INPUT1	076000000000
X I	27612800 VTX070	INPUT1	077000000000
X I	28012840 VTX071	INPUT1	078000000000
X I	28412880 VTX072	INPUT1	079000000000
3950 80010	- STD/M - Action Code		DATE - 2/02/17
X I	28812920 VTX073	INPUT1	08000000000
	2021225	INPUT1	081000000000
X I	29212960 VTX074		
x I	29613000 VTX075	INPUT1	082000000000
X I X I	29613000 VTX075 30013040 VTX076	INPUT1	083000000000
x I x I x I	29613000 VTX075 30013040 VTX076 30413080 VTX077	INPUT1 INPUT1	083000000000 084000000000
% I % I % I	29613000 VTX075 30013040 VTX076 30413080 VTX077 30813120 VTX078	INPUT1 INPUT1 INPUT1	083000000000
X I X X X X X X X X X X X X X X X X X X	29613000 VTX075 30013040 VTX076 30413080 VTX077 30813120 VTX078 31213160 VTX079	INPUT1 INPUT1	08300000000 08400000000 08500000000 08600000000
% I % I % I	29613000 VTX075 30013040 VTX076 30413080 VTX077 30813120 VTX078	INPUT1 INPUT1 INPUT1 INPUT1	083000000000 084000000000 085000000000

Figure F-4 Program Code for Program Type B0010 (3 of 11)

VTX I 32813320 VTX083 INPUT1 090000000000 \text{VTX I 33213360 VTX084 INPUT1 09100000000 \text{VTX I 33213360 VTX085 INPUT1 092000000000 \text{VTX I 34013440 VTX086 INPUT1 093000000000 \text{VTX I 34413480 VTX087 INPUT1 094000000000 \text{VTX I 34813520 VTX088 INPUT1 095000000000 \text{VTX I 35213560 VTX089 INPUT1 095000000000 \text{VTX I 35213560 VTX089 INPUT1 09500000000000000000000000000000000000	
VTK I 33613400 VTX085 INPUL 022000000000 \text{VTK I 34013400 VTX086 INPUL 02300000000000000000000000000000000000	
VTK I 33613400 VTX085 INPUL 022000000000 \text{VTK I 34013400 VTX086 INPUL 02300000000000000000000000000000000000	
VTK I 34013440 VTX086 INFUT1 09300000000 VTK I 3413480 VTX087 INFUT1 09400000000 VTK I 34813520 VTX088 INFUT1 09500000000 VTK I 35213560 VTX089 INFUT1 09600000000	
VTX I 34413480 VTX087 INPUT1 09400000000 \text{VTX I 34813520 VTX088 INPUT1 095000000000 \text{VTX I 35213560 VTX089 INPUT1 09600000000000000000000000000000000000	
VTX I 34813520 VTX088 INPUT1 09500000000 VTX I 35213560 VTX089 INPUT1 09600000000	
VTX I 35213560 VTX089 INPUT1 096000000000	
VTX I 38013640 VTX091 INFUT1 098000000000	
VTK I 36813720 VTX093 INPUT1 100000000000	
VTX I 37213760 VTX094 INPUT1 101000000000	
VTK I 37613800 VTX095 INPUT1 102000000000	
VTK I 38013840 VTX096 INPUT1 103000000000	
VTX I 38413880 VTX097 INPUT1 104000000000	
VTX I 38813920 VTX098 INPUT1 105000000000	
VTX I 39213960 VTX099 INPUT1 106000000000	
VTK I 39614000 VTX100 INPUT1 107000000000	
VTX I 40014040 VTX101 INPUT1 108000000000	
VTK I 40414080 VTX102 INPUT1 109000000000	
VTX I 40814120 VTX103 INPUT1 110000000000	
VTX I 41614200 VTX105 INPUT1 112000000000	
VTX I 42014240 VTX106 INPUT1 113000000000	
VTX I 42414280 VTX107 INPUT1 114000000000	
VTK I 42814320 VTX108 INPUT1 115000000000	
VTX I 43214360 VTX109 INPUT 11600000000	
VTX I 44014440 VTX111 INPUT1 118000000000	
VTX I 44414480 VTX112 INPUT1 119000000000	
VTK I 44814520 VTX113 INPUT1 120000000000	
VTX I 45214560 VTX114 INPUT1 121000000000	
VTX I 45614600 VTX115 INFUT1 122000000000	
VTX I 46014640 VTX116 INPUT1 123000000000	
VTX I 46414680 VTX117 INPUT1 124000000000	
VTX I 46814720 VTX118 INPUT1 125000000000	
VTK I 47214760 VTX119 INPUT1 126000000000	
VTK I 47614800 VTX120 INPUT1 127000000000	
VTX I 48018840 VTX121 INPUT 1 128000000000	
TIN 1	
VTX I 48814920 VTX123 INPUT1 130000000000	
VTX I 49214960 VTX124 INPUT1 131000000000	
VTX I 49615000 VTX125 INPUT1 132000000000	
VTX I 50015040 VTX126 INPUT1 133000000000	
VTX I 50415080 VTX127 INPUT 1 13400000000	
VTX I 51215160 VTX129 INPUT1 136000000000	
VTX I 51615200 VTX130 INPUT1 137000000000	
VTK I 52015240 VTX131 INPUT1 138000000000	
R93950 B0010 - STD/M - Action Code DATE - 2/02/17	
VTX I 52415280 VTX132 INPUT1 139000000000	
VTX I 52435320 VTX133 INPUT 140000000000	
VTX I 53215360 VTX134 INPUT1 141000000000	
VTX I 53615400 VTX135 INPUT1 142000000000	
VTX I 54015440 VTX136 INPUT1 143000000000	
VTX I 54415480 VTX137 INPUT1 144000000000	
VTK I 54815520 VTK138 INPUT1 145000000000	
VTX I 55215560 VTX139 INPUT1 146000000000	
VTX I 55615600 VTX140 INPUT1 147000000000	
VTX I 56015640 VTX141 INPUT1 148000000000	
VTX I 56415680 VTX142 INPUT1 149000000000	
VTX I 56815720 VTX143 INPUT1 150000000000	
VTX I 57215760 VTX144 INPUT1 151000000000	
I* INPUT 1 15200000000	
I/COPY_JDECPY_100PS88 INPUT1 153100000000	
INFDSI/COPY JDECPY, IOODSPROG INPUT1 154000000000	
DRTESI* INPUT1 155000000000	
COPY I* INPUT: 156000000000	
C*************************************	
C* MAINLINE PROGRAM MAINLINE 002000000000	
C* 003000000000	
C* MAINLINE 00300000000 C* MAINLINE 0040000000	
C* MAINLINE 00300000000 C* MAINLINE 00400000000 C* Process housekeeping. MAINLINE 00500000000	
C*	
C* MAINLINE 00300000000 C* MAINLINE 00400000000 C* Process housekeeping. MAINLINE 00500000000	
C*	
С*	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00500000000 C* MAINLINE 00500000000 C* MAINLINE 00500000000 C* MAINLINE 00500000000 C* MAINLINE 00700000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000	
C*	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00500000000 C* Process housekeeping. MAINLINE 00500000000 C* MAINLINE 005000000000 C* MAINLINE 00700000000 C* MAINLINE 00700000000 C* MAINLINE 007000000000 C* MAINLINE 00900000000 C* MAINLINE 009000000000 C* If LR on, and program. MAINLINE 010000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00400000000 C* Process housekeeping. MAINLINE 005000000000 C* If LR on, end program. MAINLINE 005000000000 C* WAINLINE 0050000000000000000000000000000000000	
C* MAINLINE 0030000000 CC* MAINLINE 0030000000 CC* Process housekeeping. MAINLINE 00400000000 CC* MAINLINE 00500000000 CC* MAINLINE 00500000000 CC* MAINLINE 00700000000 CC* MAINLINE 00700000000 CC* MAINLINE 00700000000 CC* MAINLINE 00900000000 CC* MAINLINE 00900000000 CC* MAINLINE 00900000000 CC* MAINLINE 00900000000 CC* MAINLINE 01000000000 CC* MAINLINE 011000000000 CC* MAINLINE 0110000000000 CC* MAINLINE 011000000000 CC* MAINLINE 011000000000 CC* MAINLINE 011000000000 CC* MAINLINE 011000000000 CC* MAINLINE 0110000000000000000000000000000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00400000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 015000000000 C* MAINLINE 015000000000 C* MAINLINE 015000000000 C* MAINLINE 015000000000 C* MAINLINE 01500000000000000000000000000000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00400000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 017000000000 C* MAINLINE 017000000000 C* MAINLINE 017000000000 C* MAINLINE 01700000000000000000000000000000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 005000000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* If LR on, end program. MAINLINE 009000000000 C* If LR on, end program. MAINLINE 009000000000 C* MAINLINE 009000000000 C* MAINLINE 012000000000 C* MAINLINE 012000000000 C* MAINLINE 014000000000 C* MAINLINE 014000000000 C* MAINLINE 014000000000 C* MAINLINE 01400000000000000000000000000000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 005000000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* MAINLINE 01000000000 C* MAINLINE 0100000000000000000000000000000000000	
MAINLINE	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 005000000000 C* Process housekeeping. MAINLINE 005000000000 C* If LR on, end program. MAINLINE 005000000000 C* MAINLINE 01000000000 C* "INLR CAREQ'1' EOJ MAINLINE 01200000000 C* MAINLINE 01200000000 C* If automatic inquiry set, process inquiry. MAINLINE 01200000000 C* SAUTO CASEQ'1' 5003 24 MAINLINE 015000000000 C* MAINLINE 01500000000000000000000000000000000000	
MAINLINE	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00400000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* If LR on, end program. MAINLINE 009000000000 C* MAINLINE 01000000000 C* MAINLINE 01200000000 C* MAINLINE 01200000000 C* MAINLINE 01200000000 C* If automatic inquiry set, process inquiry. MAINLINE 01200000000 C* SAUTO CASEQ'1' 5003 24 MAINLINE 015000000000 C* MAINLINE 0150000000000 C* MAINLINE 01500000000000000000000000000000000000	
C* MAINLINE 00300000000 C* Process housekeeping. MAINLINE 00400000000 C* Process housekeeping. MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 005000000000 C* MAINLINE 007000000000 C* MAINLINE 007000000000 C* If LR on, end program. MAINLINE 009000000000 C* MAINLINE 01000000000 C* MAINLINE 01200000000 C* MAINLINE 01200000000 C* MAINLINE 01200000000 C* If automatic inquiry set, process inquiry. MAINLINE 01200000000 C* SAUTO CASEQ'1' 5003 24 MAINLINE 015000000000 C* MAINLINE 0150000000000 C* MAINLINE 01500000000000000000000000000000000000	
MAINLINE	
C* MAINLINE 00300000000 CC* Process housekeeping. MAINLINE 00400000000 CC* Process housekeeping. MAINLINE 005000000000 CC* MAINLINE 005000000000 CC* MAINLINE 005000000000 CC* MAINLINE 007000000000 CC* MAINLINE 017000000000 CC* MAINLINE 01700000000 CC* MAINLINE 017000000000 CC* MAINLINE 01700000000000000000000000000000000000	
MAINLINE 0400000000	
C* MAINLINE 00300000000 CC* Process housekeeping. MAINLINE 00300000000 CC* Process housekeeping. MAINLINE 00300000000 CC* EXSR 5999 MAINLINE 005000000000 CC* MAINLINE 007000000000 CC* MAINLINE 007000000000 CC* MAINLINE 007000000000 CC* MAINLINE 009000000000 CC* MAINLINE 009000000000 CC* MAINLINE 01000000000 CC* MAINLINE 0100000000 CC* MAINLINE 01000000000 CC* MAINLINE 0100000000 CC* MAINLINE 0100000000 CC* MAINLINE 0100000000 CC* MAINLINE 0100000000 CC* MAINLINE 01000000000 CC* MAINLINE 010000000000 CC* MAINLINE 010000000000 CC* MAINLINE 01000000000 CC* MAINLINE 010000000000 CC* MAINLINE 010000000000 CC* MAINLINE 0100000000000000000000000000000000000	
C	
MAINLINE 00300000000	

Figure F–5 Program Code for Program Type B0010 (4 of 11)

/*			MAINLINE	027000000000
+FLONC*	#SFRNO ZSFLR	CDNO	MAINLINE	028000000000
/*			MAINLINE	029000000000
/*	If SFLCLR is used, proces	*in38 accordingly	MAINLINE	030000000000
/*			MAINLINE	031000000000
+FLDMC*	7SFLCLR ZSFLC	LR.	MAINLINE	032000000000
C*			MAINLINE	033000000000
C*	Write video screen.		MAINLINE	034000000000
C* /*			MAINLINE	035000000000
/*	TE	foot collections	MAINLINE	037000000000
/*	If not a subfile display,	Just write formati	MAINLINE	038000000000
-FLDMC*	2SEL INDIT		MAINLINE	039000000000
-* LLCOV.	1070 20011	•	MAINLINE	040000000000
R93950	B001	- STD/M - Action Code		DATE - 2/02/17
/*	If a subfile display, wri	te formati and formato	MAINLINE	041000000000
/*			MAINLINE	042000000000
+FLONC*	7SFL ZWRIT	ISFL	MAINLINE	043000000000
C	MOVE '1'	00AID	MAINLINE	044000000000
C	EXSR 5001		MAINLINE	045000000000
C*			MAINLINE	046000000000
C*	Lord data field distingers	parameters (one cycle only).	MAINLINE	048000000000
C*	load data limit dictionally	parameters (one cycle only).	MAINLINE	049000000000
c	8998 CASEO' '	5998	MAINLINE	050000000000
C*			MAINLINE	051000000000
C	END		MAINLINE	052000000000
C*			MAINLINE	053000000000
C*	Begin video screen read pr	cessing.	MAINLINE	054000000000
C*			MAINLINE	055000000000
C	SETOF	999301	MAINLINE	056000000000
DSPF C	READ 401FI Z-ADD0	##RRC₩ 9998	MAINLINE	057000000000 058000000000
c c	Z-ADDO Z-ADDO	**RROW **RCOL	MAINLINE	059000000000
C*	z-ADD0		MAINLINE	059000000000
C*	If video read timed out, e	nd program	MAINLINE	061000000000
C*	If video read timed out, e	nd program.	MAINLINE	062000000000
c c	*IN99 CAREO'1'	EOJ LR	MAINLINE	063000000000
C*			MAINLINE	064000000000
C	66AID CABEQ#FEOJ	EGJ IR	MAINLINE	065000000000
C*			MAINLINE	066000000000
C*			MAINLINE	067000000000
C*	If valid function key pres	sed, process and return.	MAINLINE	068000000000
C*			MAINLINE	069000000000
C	*IN15 IFEQ '1'		MAINLINE	070000000000
c c*	EXSR SOURCE		MAINLINE	071000000000 072000000000
c .	*INLS CAREO'1'	E07	MAINLINE	073000000000
c*	-INDA CAMPO I	200	MAINLINE	074000000000
c	*IN15 CABEQ'1'	END	MAINLINE	075000000000
C*	This county I	200	MAINLINE	076000000000
c	END		MAINLINE	077000000000
/*			MAINLINE	078000000000
/*	If any selection exits, e	est S000P	MAINLINE	079000000000
/*			MAINLINE	080000000000
DTAIC	SELC ES000	7	MAINLINE	081000000000
/*	If action code then exer	-000	MAINLINE	082000000000 083000000000
/*	If action code then exer	20001	MAINLINE	084000000000
+FLDNC*	ACTION ZACTI	795	MAINLINE	085000000000
C*	ALTION ANCIE	AN .	MAINLINE	086000000000
C*	Load subfile records.		MAINLINE	087000000000
C*			MAINLINE	088000000000
C	EXSR S003		MAINLINE	089000000000
C*			MAINLINE	09000000000
/*			MAINLINE	091000000000
/*	If any update files then	8X82 3005	MAINLINE	092000000000
+FILEC*	*ANY DB ZS005		MAINLINE	093000000000
********	-AA: UB 25005	•	MAINLINE	095000000000
/*	If any update files and a	tion code then do 5010	MAINLINE	096000000000
/*			MAINLINE	097000000000
FILEC	*ANY DB *AND		MAINLINE	098000000000
-FILEC*	*ANY DB *AND	2	MAINLINE	098500000000
R93950	8001			DATE - 2/02/17
+FLDNC*	ACTION ES010	A.	MAINLINE	099000000000
/*			MAINLINE	100000000000
/*	If a Master File 2 exists	then do SU11.	MAINLINE	101000000000
+FILEC*	*ANY DB *AND		MAINLINE	102000000000
FILEC	*ANY DB *AND	2	MAINLINE	103500000000
+97128C*	ACTION ESO11	•	MAINLINE	10400000000
C*	2001		MAINLINE	105000000000
C*	Return for next input.		MAINLINE	106000000000
C*			MAINLINE	107000000000
C	END TAG		MAINLINE	108000000000
C*			MAINLINE	109000000000
C*			MAINLINE	110000000000
C*	Set correct message in lin	24.	MAINLINE	111000000000
c*	*IN93 IFEQ '1'		MAINLINE	112000000000 113000000000
	*IN93 IFEQ '1' MOVELSVL24	VDL24	MAINLINE	113000000000
c	MOVELSVILLA ELGE		MAINLINE	115000000000
c c	MOVELSVL24	VDL24	MAINLINE	116000000000
c	END		MAINLINE	117000000000
_				

Figure F–6 Program Code for Program Type B0010 (5 of 11)

C					
C ED TAG	C*			MAINLINE	118000000000
C			END		
C				MAINLINE	120000000000
C		EOJ	TAG		
Color	C*				122000000000
MAINLINE 12500000000	C*			MAINLINE	123000000000
Column	C*	END MAINLINE P	ROGRAM	MAINLINE	
C	C*				125000000000
Column		*******	***************************************		
C					
Color		SUBROUTINE 500	EX - Process Function Neys		
Color					
C					
## STATES		Processing: 1	. Determine function key pressed.		
CER		-	. Frocess function key request.		
### STRING		E0.089	THE COLD		
### STENCH ### STOCK 188ERCM					
CRR	487.00008				
C' If EOJ sequested, exit subroutine.					
C					
C If SOJE-1 CLASSOCIONO CONTROLLED SOURCES CANDRESS OF CANDROLLED CONTROLLED					
CT		If BOJ request	ed, exit subroutine.		013000000000
C*	C*			500EX-1	014000000000
C	CSR	88AID	CAREQ#FEOJ ENDEXE LR	500EX-1	015000000000
C				S00EX-1	016000000000
C	C*			S00EX-1	
C		If Display Key	s pressed, exit to help facility and return.		018000000000
CER					
CAR					
CT		88AID			
CORR			CALL 'P9601H' 98		
CIR					
CIR					
CH CAR 88AID CARRESTRING TOURDA SOUR-1 027000000000 CP CP 293550 SOURCE TO S					
COR			PARM IGGGSR		
CT		99575	CARNE ARVEYS TOORYS		
### STATE		conses			
CER GOTO EMIRENE CH END SOURK-1 0300000000000 CH IT CURROR Sensitive Halp Framed, exit to CS Help. SOURK-1 0320000000000 CH IT CURROR Sensitive Halp Framed, exit to CS Help. SOURK-1 03200000000000000000000000000000000000	R93950		B0010 - STD/M - Action Code		DATE - 2/02/17
COR			GOTO ENDEXE		
C* C* If Curmor Sensitive Help Pressed, exit to CS Help. COURT 034000000000 034000000000 034000000000 034000000000 034000000000 034000000000 034000000000 034000000000 034000000000 034000000000 03600000000 0360000000000					
C* If Currer Semantive Help Presumed, exit to CS Help. 300EX-1 034000000000 C* 300EX-1 035000000000 C* 300EX-1 035000000000 C* 300EX-1 037000000000 C* 300EX-1 04100000000 C* 300EX-1 045000000000 C* 300EX-1			END		
CT					
CTR		If Cursor Sens	ttive Help Pressed, exit to CS Help.		
CUR	C*				035000000000
CUR		99272	THEO AMOUNT		
CORR CALL "X90CCC" 98 500EX-1 030000000000 CCR FARM 1005C 500EX-1 04000000000 CCR FARM 1005C 500EX-1 04000000000 CCR FARM 100CSR 500EX-1 04300000000 CCR FARM 100CME 500EX-1 04300000000 CCR FARM 100CME 500EX-1 04300000000 CCR 500EX-1 0		SSWID			
CY CDR FARM IOOGC 500EX-1 04000000000 CDR FARM IOOGR 500EX-1 04200000000 CDR FARM IOOGR 500EX-1 04200000000 CDR FARM IOOGR 500EX-1 04200000000 CDR FARM IOOGR 500EX-1 04400000000 CDR FARM IOOGR 500EX-1 04400000000 CDR FARM IOORE 500EX-1 04500000000 CDR FARM IOORE 500EX-1 045000000000 CDR SUBJECT 500EX-1 045000000000 CDR SUBJECT 500EX-1 045000000000 CDR EXTRESS 500EX-1 0450000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 045000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 045000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 045000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 05000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 05000000000 CDR MOVEL*#ILANDE #FDTAI 500EX-1 05000000000 CDR EXTRESS 500EX-1 05000000000 CDR SOUDEX-1 050000000000 CDR SOUDEX-1 0500000000000000000000000000000000000					
CER FARM SINTES SOURCE 04100000000 CER FARM SINTES SOURCE 04300000000 CER FARM SINTES SOURCE 04300000000 CER FARM 100CER SOURCE 04400000000 CER FARM 100MDE SOURCE 04400000000 CER FARM 100MDE SOURCE 04400000000 CER ##FILEN IFME "BLANKS SOURCE 04500000000 CER SOURCE 0500000000 CER S					
CSR			PARM I00SC	S00EX-1	
CORR FARM ##FCEFF 2	CSR		PARM SRVFDS	500EX-1	042000000000
CER FARM IONNE SOUNT-1 04400000000 CCSR ##FILDN IFME **ILANKS SOUNT-1 04500000000 CCSR STATE **ILANKS SOUNT-1 04500000000 CCSR SOUNT-1 045000000000 CCSR SOUNT-1 05000000000 CCSR SOUNT-1 0500000000 CCSR SOUNT-1 0600000000 CCSR SO					
CY CER ##FLON IFNE *BLANKS SOUT. SOURCE. 04500000000 CER EXER SOUT. SOUT. SOURCE. 04500000000 CER EXER SOUT. SOUT. SOURCE. 045000000000 CER END SOURCE. 045000000000 CER END SOURCE. 0450000000000 CER END SOURCE. 0450000000000 CER END SOURCE. 0450000000000 CER GOTO ENDERE SOURCE. 050000000000 CER END SOURCE. 050000000000 CER END SOURCE. 0500000000000000000000000000000000000					
CSR			PARM ICONDE		
CORR					
CY CDR MOVEA##IN *IN,1 500EM-1 04900000000 CDR END SOURCE 1 05000000000 CDR END SOURCE 1 05000000000 CDR GOVEN ##DTAI 500EM-1 05000000000 CDR GOVEN BEND 500EM-1 050000000000 CDR GOVEN BEND 500EM-1 050000000000 CDR SOURCE 1 050000000000000000000000000000000000		##FLDN			
CORR MOVER-##IN IN. SOURH-1 C-9000000000					
CER					
CSR					
CSR GOTO ENDEME SOURS-1 05200000000 CCSR END SOURS-1 05300000000 CCSR END SOURS-1 05400000000 CCSR END SOURS-1 05400000000 CCSR END SOURS-1 055000000000 CCSR SOURS-1 05500000000 CCSR SOURS-1 055000000000 CCSR SOURS-1 055000000000 CCSR SOURS-1 055000000000 CCSR SOURS-1 055000000000 CCSR SOURS-1 05900000000 CCSR SOURS-1 05900000000 CCSR SOURS-1 05900000000 CCSR SOURS-1 06900000000 CCSR SOURS-1 06900000000 CCSR SOURS-1 06100000000 CCSR SOURS-1 070000000000 CCSR SOURS-1 0700000000000 CCSR SOURS-1 070000000000 CCSR SOURS-1 070000000000 CCSR SOURS-1 070000000000 CCSR SOURS-1 0700000000000 CCSR SOURS-1 0700000000000 CCSR SOURS-1 0700000000000000000000000000000000000					
C* CDR					
CORR END					
C* If Display extours pressed, exit to error messages. C* SOUNT-1 055000000000 C* SOUNT-1 057000000000 CSR 88AID IFEQ STERRD SOUNT-1 059000000000 CSR 2-ADD1 \$G SOUNT-1 069000000000 CSR 3-ADD1 \$H SOUNT-1 061000000000 CSR 46 DOSTA64 CSR 86K, \$G IFEQ 11' CSR 86K, \$G IFEQ 11' CSR ADD 1 \$H SOUNT-1 062000000000 CSR ADD 1 \$H SOUNT-1 062000000000 CSR ADD 1 \$H SOUNT-1 06400000000000000000000000000000000000					
C* If Display extours pressed, exit to error messages. C* SOUNT-1 055000000000 C* SOUNT-1 057000000000 CSR 88AID IFEQ STERRD SOUNT-1 059000000000 CSR 2-ADD1 \$G SOUNT-1 069000000000 CSR 3-ADD1 \$H SOUNT-1 061000000000 CSR 46 DOSTA64 CSR 86K, \$G IFEQ 11' CSR 86K, \$G IFEQ 11' CSR ADD 1 \$H SOUNT-1 062000000000 CSR ADD 1 \$H SOUNT-1 062000000000 CSR ADD 1 \$H SOUNT-1 06400000000000000000000000000000000000	C*			S00EX-1	055000000000
C*	C*	If Display err	ors pressed, exit to error messages.		
CSR 88AID IFEQ #FERED SOURM-1 C\$900000000					
CSR					
CSR		88AID			
CSR					
CSR					
CORR					
CIR		enk, #G			
CSR					
CSR					
CSR					
CSR CALL 'POCOCE' 98 SCORM-1 06900000000 CSR PARM SER SCORM-1 071000000000 CSR GOTO ENDEME SCORM-1 072000000000 CSR GOTO ENDEME SCORM-1 072000000000 CSR END SCORM-1 074000000000 C* If HELP key pressed, exit to help facility and return. SCORM-1 076000000000 C* SCORM-1 07600000000000000000000000000000000000			END		
CSR PARM SER 500EX-1 071000000000 CSR GOMO ENDEXE 500EX-1 072000000000 CSR BND 500EX-1 073000000000 C* If HELP key pressed, exit to help facility and return. 500EX-1 075000000000 C* SOUEX-1 075000000000 C* SOUEX-1 075000000000 C* SOUEX-1 07500000000000000000000000000000000000	CSR		CALL 'P0000E' 98		
CIR GOTO ENDEME SIGNET 07200000000					
C* SOURK-1 07300000000 COR SOURK-1 07300000000 COR SOURK-1 0740000000 COR SOURK-1 07500000000 COR SOURK-1 075000000000 COR SOURK-1 075000000000 COR SOURK-1 07500000000 COR SOURK-1 07500000000 COR SOURK-1 07500000000 COR CALL FOOMER'S SOURK-1 07500000000 COR CALL FOOMER'S SOURK-1 0800000000 COR SOURK-1 08000000000 COR SOURK-1 08000000000 COR SOURK-1 08000000000 COR SOURK-1 080000000000 COR SOURK-1 080000000000 COR SOURK-1 080000000000 COR SOURK-1 0800000000000000000000000000000000000					
CSR			GOTO ENDEXE		
C* SOURX-1 07500000000 C* If MRLP key pressed, exit to help facility and return. SUGEX-1 07600000000 C* SOURX-1 0770000000000 CSR 88AID IFEQ SPHELP SOURX-1 079000000000 CSR CALL 'POUNELP' 98 SOURX-1 08000000000 C* SOURX-1 080000000000 C* SOURX-1 0800000000000000000000000000000000000			mun.		
C* If NELP key prexxed, exit to help facility and return. SCORX-1 075000000000 CC* SCORX-1 075000000000 CC* SCORX-1 075000000000 CC* SCORX-1 075000000000 CCX SCORX-1 075000000000 CCX SCORX-1 0750000000000 CCX SCORX-1 060000000000 CCX SCORX-1 060000000000 CCX SCORX-1 0600000000000000000000000000000000000			ERU .		
C* 500EX-1 07700000000 C\$ 500EX-1 07900000000 C\$R 88AID IFEQ \$FHELP 500EX-1 07900000000 C\$R CALL 'POONELP' 98 500EX-1 08000000000 C\$C 500EX-1 0810000000000 C\$C 500EX-1 0810000000000000000000000000000000000		TE MELD have no	erend, exit to beln facility and return		
C* SIGHX-1 07800000000 CDR 88AID IFEQ #FHELP SUGHX-1 07900000000 CDR CALL FOOMELP' 98 SIGHX-1 08000000000 CC* SIGHX-1 081000000000 CDR FARM NISE SIGHX-1 082000000000		or more way by	see and the same secution.		
CSR	C*				
CSR CALL 'POONELP' 98 SOURX-1 08000000000 C' SU SOURX-1 081000000000 CSR FARM NS88 SOURX-1 08200000000	C*			500EX-1	078000000000
CSR PARM HS@@ S00EX-1 082000000000	C* C* CSR	98AID		500EX-1	079000000000
	C* C* C* CSR CSR	88AID		500EX-1 500EX-1	079000000000 080000000000
COK PARM HEES 500EX-1 08300000000	C C C C C C C C C C C C C C C C C C C	88AID	CALL 'POONELP' 98	500EX-1 500EX-1 500EX-1	079000000000 080000000000 081000000000
	C* C* C#	88AID	CALL 'POONELP' 98 PARM H500	S00EX-1 S00EX-1 S00EX-1 S00EX-1	079000000000 080000000000 081000000000 082000000000

Figure F-7 Program Code for Program Type B0010 (6 of 11)

	CSR		PARM	I00SC		500000-1	084000000000
	CSR		PARM	SRVFDS			085000000000
	CSR			I 00CSR			086000000000
R9395	CSR		GOTO ENDEXE BOOLO	- generaliza	- Action Code	500800-1	087000000000 DATE - 2/02/17
	C*		80010	- att/M	- Action Code	50000-1	DRTE - 2/02/17 0880000000000
	CSR		END				089000000000
	CAR.						090000000000
	C*	If Clear screen	pressed, clear	screen and	return.		091000000000
	C*		bressen, orear				092000000000
	C*						093000000000
	CSR	66AID	IFEQ #FCLR			500EX-1	094000000000
	CSR	-	EXCSR 5001			500EX-1	095000000000
	C*						096000000000
	CSR		GOTO ENDEXE				097000000000
	C*						098000000000
EXITO			END				099000000000
	C*		and down house				100000000000
1	C*	Process roll up				500EX-1 500EX-1	101000000000
	C*						102000000000
	CSR	88AID	IFEQ #FROLU				104000000000
	CSR	66AID	OREQ #FROLD				105000000000
	CSR	SSECUR	DOUBQ' '				107000000000
	CSR	-		\$SECUR 1			108000000000
	C*						109000000000
	C*	If ROLL UP key	pressed, process	read next.		500EX-1	110000000000
	C*				-	500000-1	111000000000
	C*					500EX-1	112000000000
	CSR	66AID	IFEQ #FROLU				113000000000
	C*						114000000000
	C*	Reset error ind	icators if roll				115000000000
	C*						116000000000
	CSR			*IN, 41		500EXC-1	117000000000
	CSR			*IN, 40	010000		118000000000
	CSR		SETOF READ 401FORMAT		818299 9981		119000000000 120000000000
	CSR	*IN81	IFEQ '1'		2301		121000000000
	CSR	SRUNCEY	SETLL401FORMAT			500EX-1	122000000000
	CSR	Appropri	SETCE		8299		123000000000
	CSR		READ 601FORMAT		9982		124000000000
	C*	-					125000000000
	C*	If error on rea	d, set error.				126000000000
	C*					500EX-1	127000000000
	CSR	*IN82	IFEQ '1'			500EX-1	128000000000
	CSR		SETON		9341		129000000000
	CSR		MOVE '1'	(HDC, 2			130000000000
	CSR		GOTO ENDEXE				131000000000
	C*					500EX-1	132000000000
	CSR		END				133000000000
	CSR		END				134000000000
	CSR		END				135000000000
	C*	THE PART PARTY IN					136000000000
	C*	If ROLL DOWN ke	y pressed, proce	es resu pri	IOE.	500EX-1 500EX-1	137000000000 138000000000
	C*						139000000000
	CSR	66AID	IFEQ #FROLD				140000000000
	C*	-cens					141000000000
	C*	Reset error ind	icators if roll			500EX-1	142000000000
	C*						143000000000
	CSR			*IN, 41		500EX-1	144000000000
	CSR			*IN, 40			145000000000
	CSR		SETOF		818299		146000000000
	CSR	*	READP401FORMAT		9981	500EX-1	147000000000
R9395			B0010	- STD/M	- Action Code		DATE - 2/02/17
	CSR	*INB1	IFEQ '1'				148000000000
	CSR	\$RDOORY	SETLL401FORMAT SETOF		8299		149000000000 150000000000
	CSR		READPA01FORMAT		9982	500EX-1 500EX-1	151000000000
	C*	•	THE PERSON NAMED IN COLUMN TO PERSON NAMED I		2242	500EX-1	152000000000
	C*	If error on rea	d, set error.				153000000000
	C*						154000000000
	CSR	*IN82	IFEQ '1'				155000000000
	CSR		SETON		9341	500EX-1	156000000000
	CSR		MOVE '1'	8mx, 2			157000000000
	CSR		GOTO ENDEXE				158000000000
	C*						159000000000
	CSR		END				160000000000
	CSR		END			500EX-1	161000000000 162000000000
	CSR		EAU.			500EX-1	
	C*	Load wides ac-	en dete en mell	harm			163000000000 164000000000
	C*	Load video scre					165000000000
	C*					500EX-1	166000000000
	CSR	68AID	IFEQ #FROLU				167000000000
	CSR		OREQ #FROLD				168000000000
	/*						169000000000
ı	/*	Include record .	lock logic if un	date files	exist.		169100000000
1	/*					500EX-1	169200000000
+FILE	C*	*ANY	DB ZUNLOCK	8			169300000000
	C*						169400000000
MCU01							169900000000
MCU01		Cost Center sec	urity edit.				170000000000
MCU01						500EX-1	171000000000
MCU01	CSR		MOVEL401(FILE)	FILE		 50000-1	172000000000

Figure F–8 Program Code for Program Type B0010 (7 of 11)

NOTICE NOTICE NOTICE SHOUL S						
MCCHILLER SALT	MCU01CSR		MOVEL 601 NEY	#MCU	500EX-1	173000000000
MINISTERN PARTY		#AUT	IFNE '1'	2000		
MINISTERN FIRST 17000000000 170000000000 170000000000						
MINISTER MARKET 177 17		20000				
MINISTERN SALT THE '1'						
MINISTERN STATE 17900000000 MINISTERN MINIST						
MICHIGLES SPROTT AMERICAL SOUTH STATEMENT SOUTH		Anton				
MINISTERN MINI			TEME T			
MINISTERN STREET						
SCHOOL CR. SINCON CARRY SOUTH		\$504D.7				
CER SECUR CARGY 5004 500K-1 1440000000000				SARCOK		
C						
CER		SSECUR	CRSEQ' '			
CR. SHOTH 1 197000000000						
CER			END			
CR						
CER			END			
CER						
CT						
CER			GOTO ENDEXE			
CT CORD #SEAID FIRE 1: 135000000000 1300000000 13000000000 13000000000 13000000000 13000000000 13000000000 13000000000 13000000000 13000000000 13000000000 13000000000 130000000000						
CER			END			
CER						
COR		88AID				
C	CSR		SETON	0193	500EX-1	196000000000
COR			GOTO ENDEXE			
COR	C*				500EX-1	198000000000
CT			END			
COR						
MODIO	CSR	ENDERE	ENDSR			
Total		,		- STD/M - Action Code		
### If the display file has the selection option field,		*******			500EX-1	
Tit the display file has the selection option field,						
## Include the 2000F subcoutine to process selection options. ## STENCY VORBIC		If the display	file has the se	election option field.		
## FILENCY						
#FIRMCY*		amounted the Sti	one succession to	process serection operons.		
FIRST		100000	Approx.			
## FILENCY SPERIC SOUTH - Cursor Control Return Values SOUTH - 10000000000	- FE-PACES					
######################################		arana.	20008-1			
C* SURBOUTINE SOUNT Cursor Control Return Values			g000m-0			
C		arant/C	20009-2			
C*						
C*						
C* By format, find the field to update and move in the C* returned value. If the format is a subfile, the record 500VL-1 0050000000000000000000000000000000000						
C* returned value. If the format is a subfile, the record						
C* to change is found in \$8RRN.						
CT		returned value.	. If the format	is a subfile, the record		
CORR SOUNT INEGER C'		to change is fo	ound in 88RRN.			
C* CTR #FUNAL IFEQ **BLANK* CDR #FUNAL IFEQ **BLANK* CDR BND **BLANK **FUNAL 50071-1 01000000000 000000000000000000000						
CF CSR ##RVAL IFEQ "BLANK" #FRVAL SOUT-1 01000000000 CCR CSR MOVE "BLANK ##RVAL SOUT-1 013000000000 CCR CSR END SOUT-1 014000000000 CCR SOUT-1 0140000			BEGSR			
CSR #FEVAL IFEQ **ILANK* MOVE **BLANK MOVE **BLANK MOVE **BLANK #FEVAL SCOVI-1 01300000000	C*		****			
CSR #FEVAL IFEQ **ILANK* MOVE **BLANK MOVE **BLANK MOVE **BLANK #FEVAL SCOVI-1 01300000000	C*					011000000000
CSR		##RVAL	IFEQ '*BLANK'		500VL-1	
CSR			MOVE *BLANK	**RVAL		
SOUTC C	CSR				500VL-1	014000000000
CFR EMDOVL ENESR 500VL-1 015000000000 CCFR ENEST 500VL-1 0170000000000 CCFR ENEST 500VL-1 017000000000 CCFR ENEST 500VL-1 0170000000000 CCFR ENEST 500VL-1 017000000000 CCFR 500VL-1 017000000000 CC						
CSR EMDOVL ENDSR COPY C************************************						
COPY C************************************		ENDOVL	ENDSR			
C* SURROUTINE 5001 - Clear Fields	CORY C***	***********	***********	***********************		
C* SURBOUTINE SOOI - Clear Fields						
C*		SUBBOUTETER FOR	l - Clear Fields			
C* Processing: 1. Reset all video screen and data file fields						
C* Processing: 1. Reset all video acreen and data file fields				-		
C'		Dennegoives	Beset all of	len sersen and dota file dicta-		
C* 2. Clear action code only if requested.		Frocessing: 1				
CSR 5001 MEGGR 5001-1 0090000000000000000000000000000000						
CDR 5001 MEGGR 5001-1 009000000000 CC*		2.	. Clear action	code only if requested.		
C*		F0.04	BECCED.			
C* Reset fields for next transaction. C* Reset fields for next transaction. C* Reset fields for next transaction. C* C* C* C* C* MOVELOVEAN VDL24 CSR MOVE ' SIN37 1 2001-1 01500000000 C* C* Clear action code only if clear screen action. C* C* Clear action code only if clear screen action. C* CSR MOVE ' SIN37 1 2001-1 01500000000 C* C* Clear action code only if clear screen action. C* CSR MOVE ' SREST 2001-1 01500000000 CSR SAID IFEQ SFCLR 2001-1 015000000000 CSR MOVE ' RLL'O' SREST 2001-1 02100000000 CSR MOVE ' RLL'O' SREST 2001-1 02100000000 CSR MOVE ' ACTION 1 2001-1 02300000000 CSR MOVE ' ACTION 1 2001-1 02300000000 CSR MOVE ' ACTION 1 2001-1 02500000000 CSR ENDO 2001-1 025000000000 CSR ENDO 2001-1 025000000000 CSR ENDO 3001-1 025000000000 CSR ENDO 3001-1 025000000000 CSR SUBROUTINE 5003 - Edit Key 2001-1 025000000000 C* SUBROUTINE 5003 - Edit Key 3001-1 025000000000 C* SUBROUTINE 5003 - Edit Key 3001-1 025000000000 C* SUBROUTINE 5003 - Edit Key 5001-1 02500000000000000000000000000000000000						
C* Reset fields for next transaction. C* Reset fields for next transaction. C* Robot fields for next transaction. C* CSR *NONEY CLEARADIFORMAT 5001-1 01300000000 CLRY C** NONEY CLEARADIFORMAT 5001-1 01300000000 CSR MOVELSVL24N VDL24 5001-1 01500000000 CSR MOVE ** SENSY 1 5001-1 015000000000 C* CLEAR action code only if clear screen action. 5001-1 015000000000 C* CSR SEALD IFEC SPCLR 5001-1 015000000000 CSR MOVELSVL24N 5001-1 0150000000000 CSR MOVELSVL24N 5001-1 025000000000 CSR END 5001-1 025000000000 C* SUBROUTINE 5003 - Edit Key 5001-1 025000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 02500000000 C* SUBROUTINE 5003 - Edit Key 5003-1 025000000000 C* PFOCENSING: 1 Clear error indicators and arrays. 5003-1 00500000000 C* PFOCENSING: 1 Clear error indicators and arrays. 5003-1 00500000000 C* SUBROUTINE 5003 - Edit key 5003-1 005000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 005000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 0050000000000000000000000000000000000						
C* SUBSTANTIAL CLEARAUTECRMAT				t		
NF		Reset fields fo	or next transact	ion.		
CLRY C* MOVELSVL24M VDL24 S001-1 01400000000 CSR MOVE / 8IN37 1 S001-1 015000000000 CSR MOVE / 8IN37 1 S001-1 015000000000 C* Clear action code only if clear acreen action. S001-1 015000000000 CSR S8AID IFEQ SECIR S001-1 01900000000 CSR MOVE *ALL'O' SRESET S001-1 02100000000 CSR MOVE * ALL'O' SRESET S001-1 02300000000 CSR MOVE * ALL'O' SRESET S001-1 02300000000 CSR MOVE * ALL'O' SRESET S001-1 02300000000 CSR S001-1 02500000000 02500000000 CSR S001-1 02500000000 C						
CSR		*NOKEY	CLEAR & 01 FORMAT	T .		
CSR						
C* Clear action code only if clear acreen action.						
C* Clear action code only if clear acreen action.	CSR		MOVE ' '	9IN37 1		
C* SUBBOUTINE 5003 - Edit Key Spanson Bool - STD/M - Action Code DATE - 2/02/17 C* Froemming: 1. Clear error indicators and arrays. 5003-1 00500000000 CC* C. Load input keys. 5003-1 00500000000 CC* C. Load input keys. 5003-1 00500000000 CC* C. Load input keys. 5003-1 0050000000000000000000000000000000000						
CSR \$8AID IFEG &FCLR		Clear action or	ode only if cles	r screen action.		
CSR MOVE *ALL'O' \$RESET						
CSR	CSR	88AID	IFEQ #FCLR		5001-1	020000000000
CSR MOVEAGRAGET *IN,41 5001-1 02200000000 CCSR MOVE'' ACTION 1 5001-1 024000000000 CCSR MOVE'' ACTION 1 5001-1 024000000000 CCSR SUDJECT CSR SUDJECT C			MOVE *ALL' 0'	SRESET		021000000000
CIRR C* MOVE'' ACTION 1 5001-1 02400000000 CIRR C* 5001-1 02400000000 CIRR C* 5001-1 02400000000 CC* 5001-1 025000000000 CC* 5001-1 02500000000000000000000000000000000000			MOVEASRESET			
CLRN C*	CSR		MOVE ' '	ACTION 1	5001-1	023000000000
CSR END 5001-1 02500000000 CCSR 5001-1 02500000000 CCSR 5001-1 02500000000 CCSR 5001-1 02500000000 CCSR 5001-1 025000000000 CCSR 5001-1 0250000000000 CCSR 5001-1 0250000000000000000000 CCSR 5001-1 025000000000000000000 CCSR 5001-1 02500000000000000000000000000000000000	CLRN C*					
C*	CSR		END			
CSR ENDOOL ENDSR 5001-1 027000000000 CP 5003-1 028000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 028000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 002000000000 C* SUBROUTINE 5003 - Edit Key 5003-1 0020000000000000000000000000000000000						
COPY C************************************		END001	ENDSR			
C*				*********		
C* SUBROUTINE 5003 - Edit Key 5003-1 00200000000 00						
C* 5003-1 00300000000 R93950 B0010 - STD/M - Action Code 5003-1 00400000000 C* 5003-1 00400000000 C* Processing: 1. Clear error indicators and arrays. 5003-1 00500000000 C* 2. Load input keys. 5003-1 00500000000 C* 3. Validate master file key. 5003-1 007000000000		SUBBOUTTER SOOT	3 - Edit Yes			
R93950 D010 - STD/M - Action Code DATE - 2/02/17 C* S003-1 00400000000 C* Processing: 1. Clear error indicators and arrays. 5003-1 00500000000 C* 2. Load input keys. 5003-1 00500000000 C* 3. Validate master file key. 5003-1 007000000000		TOURS SOU	- marc ney			
C* 5003-1 004000000000 C* Processing: 1. Clear error indicators and arrays. 5003-1 00500000000 C* 2. Load input keys. 5003-1 00500000000 C* 3. Validate master file key. 5003-1 007000000000			B0010	= STD/M = Action Code	40.44-4	
C* Processing: 1. Clear error indicators and arrays. 2003-1 005000000000 C* 2. Load input keys. 5003-1 00500000000 C* 3. Validate master file key. 5003-1 007000000000			80010	- SINVE - MCCION CODE	E003-5	
C* 2. Load input keys. 5003-1 006000000000 C* 3. Validate master file key. 5003-1 00700000000		December	Clear core	ndicators and accoun		
C* 3. Validate maxter file key. 5003-1 007000000000						
	C*					
 4. Keleske maxter tile record lock. S003-1 008000000000 						
		4	. Release maste	E ILLE PECOPA LOCK.	5003-1	00000000000

Figure F-9 Program Code for Program Type B0010 (8 of 11)

C*	5.	Load video sc	reen output on inquiry.	5003-1	009000000000
C*					010000000000
CSR	5003	BEGSR			011000000000
C*					012000000000
C*					012100000000
C*	Load data field	dictionary par	ameters (one cycle only).		012200000000
C*					012300000000
CSR	\$998	CASEQ' '	5998	5003-1	012400000000
C* CSR		END		5003-1	012500000000
		END		5003-1	
C*	Touch comes indi			5003-1	013000000000 014000000000
C*	Reset error ind	icators and arr	iys.		015000000000
CSR		MOVE *ALL'O'	\$RESET 39	5003-1	016000000000
CSR			\$REST1 63		016100000000
CSR			*IN, 41	5003-1	017000000000
CSR			810C, 2		018000000000
CSR		CLEARSER	Grand as	5003-1	019000000000
C*		CHICALCHY.		5003-1	020000000000
KEYS C*				5003-1	021000000000
C*				5003-1	022000000000
MF CSR		CHAIN& 01 FORMAT	9899	5003-1	023000000000
MCU01C*				5003-1	024000000000
MCU01C*	Cost Center sec	urity edit.		5003-1	025000000000
MCU01C*				5003-1	026000000000
MCU01CSR		MOVEL401 (FILE		5003-1	027000000000
MCU01CSR		MOVEL 401 MEY	●MCU	5003-1	028000000000
MCU01CSR	#AUT	IFNE '1'		5003-1	029000000000
MCU01CSR	#FAUT	ANDRE' 1'		5003-1	030000000000
MCU01CSR		EXCSR C0000		5003-1	031000000000
MCU01C*				5003-1	032000000000
MCU01CSR		END		5003-1	033000000000
MCU01CSR	#AUT	IFNE '1'		5003-1	034000000000
MCU01CSR	#FAUT	ANDRE' 1'		5003-1	035000000000
MCU01CSR	#MAUT	ANDRE' 1'		5003-1	036000000000
MCU01CSR			\$\$SECR 1	5003-1	037000000000
MCU01CSR		END		5003-1	038000000000
C*				5003-1	039000000000
C*	If security vio	lation, set erro	or condition.		04000000000
C*				5003-1	041000000000
CSR	\$\$SECR	MOVE '1'	A 0	5003-1	042000000000
CSR			@10C, 8	5003-1	043000000000
CSR		SETON	9341	5003-1	044000000000
CSR			\$\$SECR 1	5003-1	045000000000
CSR		GOTO ENDOUS		5003-1	046000000000
C*				5003-1	047000000000
CSR		END		5003-1	048000000000
C*				5003-1	049000000000
C*	Edit result of	read and action	code.	5003-1	050000000000
C*					051000000000
CSR	*IN98	IMEQ '1'		5003-1	052000000000
CSR	*IN21	COMP '0'	41 *error*		053000000000
			** ************************************	5003-1	054000000000 055000000000
CSR	*IN21	COMP '1'	41 "error"	5003-1	USSUU0000000
R93950		B0010	- STD/M - Action Code	5003-1	DATE - 2/02/17 0560000000000
CSR C*		and the same of th			057000000000
C*	TE indicator (1	on described hos	for cotion and	5003-1	058000000000
C*	ir indicator 41	on, invalid ke	y for action code.		059000000000
CSR	*IN41	TERO (1)		5003-1	059000000000
CSR	-1841	MOVE '1'	@NOC, 2	5003-1	061000000000
CSR		SETON	93		062000000000
CSR		END			063000000000
C*				5003-1	064000000000
C*	If indicator 99	on, record in	186-	5003-1	065000000000
C*				5003-1	066000000000
CSR	*IN99	IFEQ '1'			067000000000
CSR		CALL 'P98RLCK'	81	5003-1	067100000000
C*				5003-1	067200000000
CSR		PARM	##PSDS	5003-1	067300000000
CSR		MOVE '1'	(NOC, 6	5003-1	068000000000
CSR		SETON	9341		069000000000
CSR		END		5003-1	070000000000
C*				5003-1	071000000000
C*				5003-1	072000000000
C*	If not inquiry,	skip remainder	of subroutine.	5003-1	073000000000
C*				5003-1	074000000000
CSR	*IN24	CABBQ' 0'	END003	5003-1	075000000000
C*				5003-1	076000000000
C*				5003-1	077000000000
C*				5003-1	078000000000
C*	Release record .	lock on master :	file.	5003-1	079000000000
C*				5003-1	079100000000
CSR	*IN98	IMEG 'O'		5003-1	079200000000
CSR	*IN99	ANDEQ' 0'		5003-1	08000000000
CSR		EXCEPTUNLOCK		5003-1	081000000000
Car		END		5003-1	081100000000
CSR				5003-1	082000000000
CSR C*					
CSR	If errors, skip	remainder of s	broutine.	5003-1	083000000000
CSR C* C*	If errors, skip			5003-1	08300000000 084000000000
CSR C* C* C*	If errors, skip		broutine. END003	5003-1 5003-1	083000000000 084000000000 085000000000
CSR C* C* CSR C*				5003-1 5003-1 5003-1	08300000000 08400000000 08500000000 08600000000
CSR C* C* CSR C*				5003-1 5003-1 5003-1 5003-1	08300000000 08400000000 08500000000 08600000000 08700000000
CSR C* C* CSR C*	*IN93	CARRO'1'	END003	5003-1 5003-1 5003-1 5003-1 5003-1	08300000000 08400000000 08500000000 08600000000 08700000000 08800000000
CSR C* C* CSR C*		CARRO'1'	END003	5003-1 5003-1 5003-1 5003-1	08300000000 08400000000 08500000000 08600000000 08700000000

Figure F-10 Program Code for Program Type B0010 (9 of 11)

C*			
		5003-1	090000000000
CSR	EXSR 5004	5003-1	091000000000
C*	****	5003-1	092000000000
C*		5003-1	093000000000
CSR	END003 ENDSR	5003-1 5003-1	093000000000
	ENDOUS ENDSR		
		5003-1	095000000000
C*		5004-1	001000000000
C*	SUBROUTINE S004 - Load Video Screen Data	5004-1	002000000000
C*		5004-1	003000000000
C*		5004-1	004000000000
C*	Processing: 1. Move data base information to video screen.	5004-1	005000000000
C*	All video screen fields are alpha and	5004-1	006000000000
C*		5004-1	007000000000
C*	therefore numeric information must be	5004-1	008000000000
	processed through subroutine C0014 to set	5004-1 5004-1	
C*	proper decimals and provide editing for	5004-1	00900000000
C*	display on screen.	5004-1	010000000000
C*		5004-1	011000000000
C*	Date fields must be converted from their	5004-1	012000000000
C*	internal format of month, day and year or	5004-1	013000000000
R93950	B0010 - STD/M - Action Code		DATE - 2/02/17
C*	julian to the system format using program	5004-1	014000000000
C*	X0028.	5004-1	015000000000
C*	20020.	5004-1	016000000000
CSR	5004 BEGSR	5004-1	017000000000
C*	****	5004-1	018000000000
DSP1 C*		5004-1	025000000000
CSR	END004 ENDSR	5004-1	026000000000
	***************************************	5004-1	027000000000
C*		5005-1	001000000000
C*	SUBROUTINE 5005 - Scrub Input	5005-1	002000000000
C*	accounting account to the contract to the cont	5005-1	003000000000
C*		5005-1	00400000000
C*	Processings 1 Validate all wides input	5005-1 5005-1	005000000000
	Processing: 1. Validate all video input.		
C*	All numeric fields must be processed	5005-1	00600000000
C*	thru subroutines C0012 and C0015 in order	5005-1	007000000000
C*	to scrub the alpha input field and convert	5005-1	008000000000
C*	back to internal numeric representation of	5005-1	
C*	15 digits and 0 decimals.	5005-1	010000000000
C*		5005-1	011000000000
C*	Date fields must be converted from system	5005-1	012000000000
C*	format to their internal format of month,	5005-1	013000000000
C*	day and year or julian using program X0028.	5005-1	014000000000
C*		5005-1	015000000000
	Update data record fields from video.		015000000000
C*		5005-1	
CSR	5005 BEGSR	5005-1	017000000000
C*	****	5005-1	018000000000
C*		5005-1	019000000000
C*	If not addition or change, bypass subroutine	5005-1	020000000000
C*		5005-1	021000000000
CSR	*IN21 IFEQ '0'	5005-1	022000000000
CSR	*IN22 ANDEQ'0'	5005-1	023000000000
CSR	GOTO INDO05	5005-1	024000000000
C*	GOTO ENDOUS	5005-1	025000000000
CSR	END	5005-1	026000000000
C*		5005-1	028000000000
FIELDC*		5005-1	029000000000
CSR	END005 ENDSR	5005-1	030000000000
COPY C***	***************************************	5005-1	031000000000
C*		5010-1	001000000000
C*	SUBROUTINE S010 - Update Data Base	5010-1	002000000000
č*	acceptance and - opening pack pack	5010-1	003000000000
C*		5010-1	004000000000
C*	Processing: 1. Update data base file based upon valid	5010-1	005000000000
C*	action codes.	5010-1	006000000000
	ACLION COOMS.		
C* CSR	5010 BEGSR	5010-1 5010-1	007000000000
	and and analysis		
C*		5010-1	00900000000
AC*		5010-1	010000000000
AC*	If add action, add record.	5010-1	011000000000
AC*		5010-1	012000000000
	*IN21 IFEQ '1'	5010-1	013000000000
ACSR	WRITE401FORMAT 99		014000000000
ACSR MF ACSR		5010-1	
	END	5010-1	015000000000
MF ACSR		5010-1	
MF ACSR ACSR	END		015000000000 016000000000
MF ACSR ACSR CC* CC*		5010-1 5010-1	015000000000
MF ACSR ACSR CC* CC*	IND If change action, update record.	5010-1 5010-1 5010-1 5010-1	015000000000 01600000000 017000000000 018000000000
MF ACSR CC* CC* CC* CC*	IND If change action, update record. *INC2 IFEQ '1'	5010-1 5010-1 5010-1 5010-1 5010-1	015000000000 016000000000 017000000000 018000000000
MF ACSR ACSR CC* CC* CC* CCSR MF CCSR	IND If change action, update record. *IN22 IFEQ '1' & UPDATACHIFORMAT 99	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	015000000000 01600000000 01700000000 01800000000 01900000000
MF ACSR ACSR CC* CC* CCSR MF CCSR CCSR	If change action, update record. *IN22 IFEQ '1' t UPDATEDIFORMAT 99 END	5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 01900000000 02000000000
MF ACSR ACSR CC* CC* CC* CCSR MF CCSR R93950	IND If change action, update record. *IN22 IFEQ '1' & UPDATACHIFORMAT 99	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 0190000000 0200000000 02100000000 02100000000
MF ACSR ACSR CC* CC* CCSR MF CCSR R93950 DC*	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 BND BOOLO - STD/M - Action Code	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01900000000 02000000000 02100000000 DATE - 2/02/17 02200000000
MF ACSR ACSR CC* CC* CCSR MF CCSR R93950 DC* DC*	If change action, update record. *IN22 IFEQ '1' t UPDATEDIFORMAT 99 END	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 02900000000 02100000000 DATE - 2/02/17 02200000000
MF ACSR ACSR CC* CC* CCSR MF CCSR R93950 DC*	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 BND BOOLO - STD/M - Action Code If delete action, delete record.	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01700000000 01700000000 01800000000 01900000000 02100000000 DATE - 2/02/17 0220000000 02300000000 02300000000
MF ACSR ACSR CC* CC* CCSR MF CCSR R93950 DC* DC*	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 BND BOOLO - STD/M - Action Code If delete action, delete record.	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 02900000000 02100000000 DATE - 2/02/17 02200000000
MET ACSR ACSR CC* CC* CCSR MET CCSR R93950 DC* DC* DC* DCSR	IND If change action, update record. *IN22 IFEQ'1' % UPDATEONFORMAT 99 END BO010 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ'1'	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 01900000000 02000000000 02100000000 DATE - 2/02/17 0220000000 02300000000 02400000000 02400000000
MET ACSR ACSR CC* CC* CCSR MET CCSR R93950 DC* DC* DC* DCSR	IND If change action, update record. *IN22 IFEQ '1' % UPDATEDITORMAT 99 END BOO10 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1'	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 02900000000 02100000000 02100000000 02300000000 02300000000 02300000000
MF ACSR ACSR CC* CC* CC* CCSR CCSR MF CCSR R93950 DC* DC* DC* DCSR MF DCSR	IND If change action, update record. *IN22 IFEQ '1' * UPDATABOLFORMAT 99 IND BOOLO - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEDIFORMAT 99	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 0190000000 02100000000 02100000000 DATE - 2/02/17 02200000000 0230000000 02400000000 02400000000 02500000000 02500000000
MF ACSR ACSR CC* CC* CC* CCSR CCSR CCSR CCSR CCSR	IND If change action, update record. *IN22 IFEQ '1' * UPDATABOLFORMAT 99 END BOOLO - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEOLFORMAT 99 END	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 01800000000 02100000000 02100000000 02300000000 02300000000 02500000000 02500000000 02700000000 02700000000
MF ACSR ACSR CC* CC* CC* CCSR CCSR CCSR P3950 DC* DC* DC* DCSR CSSR DCSR CCSR CCSR CCSR CCSR CCSR	IND If change action, update record. *IN22 IFEQ '1' * UPDATABOLFORMAT 99 IND BOOLO - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEDIFORMAT 99	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01800000000 01800000000 02000000000 02100000000 02100000000
MF ACSR ACSR CC* CC* CC* CCSR MF CCSR R93950 DC* DC* DC* DCSR MF DCSR C* C* C*	IND If change action, update record. *IN22 IFEQ '1' * UPDATAONFORMAT 99 BND B0010 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELET*ONFORMAT 99 END Clear data field for next transaction	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 02800000000 02100000000 02100000000 02300000000 02300000000 02500000000 02500000000 02700000000 02700000000 02800000000 02800000000 02800000000
MF ACSR ACSSR CC* CC* CC* CCSR MF CCSR CCSR R93950 DC* DC* DCSR MF DCSR C*	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 END BOO10 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEDIFORMAT 99 END Clear data field for next transaction MOVE SFCIR @SAID	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01600000000 01800000000 02000000000 02100000000 02100000000
MF ACSR ACSR CC* CC* CC* CCSR MF CCSR R93950 DC* DC* DCSR DC* CCSR CCSR CCSR CCSR CCSR CCSR CCSR CC	IND If change action, update record. *IN22 IFEQ '1' * UPDATAONFORMAT 99 BND B0010 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELET*ONFORMAT 99 END Clear data field for next transaction	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 02000000000 02100000000 02100000000
MF ACOR ACOR CC* CC* CC* CC* CCAR NF CCAR CCAR NF CCAR DC* DC* DC* DC* DC* DC* CC* CC* CC* CC*	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 END BOOLO - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETABLE OF DEVELOPMAT 99 END Clear data field for next transaction MOVE SPCIR 88AID EXER 5001	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01700000000 01800000000 01900000000 02000000000 02100000000 02300000000 02300000000 02500000000 02500000000 02500000000
MF ACOR ACOR ACOR CC* CC* CC* CC* CCBR CCBR CCBR CCBR CC	IND If change action, update record. *IN22 IFEQ '1' * UPDATAONFORMAT 99 END B0010 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEONFORMAT 99 END Clear data field for next transaction MOVE #FCIR 08AID EXER 5001 ENDOLO ENDOR	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 02000000000 02100000000 02100000000
MF ACOR ACOR ACOR ACOR CCC CCC CCC ACO ACO ACO ACO ACO ACO ACO	IND If change action, update record. *IN22 IFEQ '1' * UPDATEDIFORMAT 99 END BOOLO - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETABLE OF DEVELOPMAT 99 END Clear data field for next transaction MOVE SPCIR 88AID EXER 5001	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01600000000 01600000000 01800000000 01900000000 02000000000 02100000000 02300000000 02300000000 0240000000 02500000000 02500000000 02500000000
MF ACOR ACOR ACOR CC* CC* CC* CC* CCBR CCBR CCBR CCBR CC	IND If change action, update record. *IN22 IFEQ '1' * UPDATAONFORMAT 99 END B0010 - STD/M - Action Code If delete action, delete record. *IN23 IFEQ '1' * DELETEONFORMAT 99 END Clear data field for next transaction MOVE #FCIR 08AID EXER 5001 ENDOLO ENDOR	5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1 5010-1	01500000000 01500000000 01700000000 01800000000 02000000000 02100000000 02100000000

Figure F-11 Program Code for Program Type B0010 (10 of 11)

C*	SUBROUTINE S998 - La	oad diction	ary parameters.		5999-1	002000000000
C*					5999-1	00300000000
C*					5999-1	00400000000
CS	R 5998 BEGSI	R			5999-1	005000000000
C*		-			5999-1	00600000000
DPRRMC*					5999-1	007000000000
C*					5999-1	008000000000
C*		tion flag.			5999-1 5999-1	009000000000
C*		***	\$998 1		5999-1 5999-1	010000000000
CS C*		4	4330 1		5999-1 5999-1	012000000000
CS.					5999-1 5999-1	013000000000
	IK ENDOYO ENDO		*******	*******	5999-1	014000000000
C*					5999-1	015000000000
C*		ousekeeping			5999-1	016000000000
C*					5999-1	017000000000
C*						018000000000
C*	Processing: 1. Loss	d video scr	meen text.		5999-1	019000000000
C*			m title data are		5999-1	020000000000
C*			ed access, cente		5999-1 5999-1	021000000000
			to video screen			
C*		tialize key d roll keys			5999-1 5999-1	023000000000
C*		sed paramet			5999-1	025000000000
C*	6. Low	d error re-	sage array.		5999-1	026000000000
C*						027000000000
CS	R 5999 BEGS1	R			5999-1	028000000000
C*					5999-1	029000000000
C*					5999-1	03000000000
C*		ameters.			5999-1	031000000000
C*					5999-1	032000000000
ENTRYCS		T			5999-1	033000000000
AUTOIC*					5999-1	034000000000
C*					5999-1 5999-1	035000000000
C*		wh			5999-1 5999-1	036000000000
C*		AL-			5999-1 5999-1	037000000000
CS		LOGFILE	PSKEY 10		5999-1	039000000000
VTXI C*					5999-1	040000000000
	COPY JDECPY, COOSC				5999-1	041000000000
C*					5999-1	042000000000
/*					5999-1	043000000000
/*		s exist, lo	ed processing op	tions	5999-1	044000000000
/*					5999-1	045000000000
R93950		B0010	- STD/M - Ac	tion Code		DATE - 2/02/17
+FLDNC*		EOPTIONE			5999-1 5999-1	046000000000
KLISTC*					5999-1 5999-1	047000000000 048000000000
C*		and leaves	en velue-		5999-1 5999-1	049000000000
C*		TOWER)	ey values.		5999-1 5999-1	050000000000
MF CS		401KEYFLD	SPURCEY		5999-1	051000000000
os cs		SRUKEY			5999-1	052000000000
CS			\$RUKEY		5999-1	053000000000
cs			SRDKEY		5999-1	054000000000
C*						055000000000
C*					5999-1	056000000000
C*		array.			5999-1	057000000000
C*			The 01	Total Bartinia	5999-1	058000000000
cs	MOVE.		ENC, 01	Inv Action	5999-1 5999-1	059000000000
CS CS			EMK, 02 EMK, 03	Inv Key Inv Blanks	5999-1 5999-1	061000000000
cs			EMC, 04	Inv Date		062000000000
cs			ENK, 05	Inv Next Mbr		063000000000
cs			ENK, 06	In Use	5999-1	064000000000
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EMEC CS		'0027'	EMK, 09	Inv Desc Ttl	5999-1	067000000000
					5999-1	06900000000
C*		anda com			5999-1	070000000000
C*		code array.			5999-1 5999-1	071000000000 072000000000
ACTN CS	n waren	R* *	Ave.c		5999-1 5999-1	072000000000
	'ALLES MOVED				5999-1	074000000000
C*					5999-1	075000000000
C*					5999-1	076000000000
C*					5999-1	077000000000
100						
CS	R TIME		\$WRK12 120		5999-1	078000000000
	R TIME		\$\$EDT 60		5999-1	079000000000
cs cs	R TIME R MOVE R MOVE	\$WRK12 \$\$EDT	\$\$EDT 60 #SIDAT 6		5999-1 5999-1	07900000000 080000000000
CS CS CS	IR TIME IR MOVE IR MOVE IR MOVE	\$WRK12 \$\$EDT L'*SYSVAL '	SSEDT 60 #SIDAT 6 #FFMT 7		5999-1 5999-1 5999-1	079000000000 080000000000 081000000000
CS CS CS CS	IR TIME IR MOVE IR MOVE IR MOVE IR MOVE IR MOVE	\$WRK12 \$\$EDT L'*SYSVAL ' L*BLANKS	\$SEDT 60 #SIDAT 6 #FFMT 7 #EDAT 8		5999-1 5999-1 5999-1 5999-1	07900000000 08000000000 08100000000 08200000000
CS CS CS CS CS	IR TIME IR MOVE IR MOVE IR MOVE IR MOVE IR MOVE IR MOVE	\$WRK12 \$\$EDT L'ASYSVAL' L'ELANKS L'AJUL'	SSEDT 60 SSIDAT 6 FFRET 7 BEDAT 8 FTRET 7		5999-1 5999-1 5999-1 5999-1	07900000000 08000000000 08100000000 08200000000 08300000000
CS CS CS CS CS	IR TIME IR MOVE	\$WRK12 \$\$EDT L'*SYSVAL ' L*BLANKS L'*JUL ' L'*NONE '	\$\$EDT 60 #SIDAT 6 #FFMT 7 #EDAT 8 #TFMT 7 #SEP 7		5999-1 5999-1 5999-1 5999-1 5999-1	07900000000 08000000000 08100000000 08200000000 083000000000 08400000000
CS CS CS CS CS CS	IR TIME IR NOVE	\$WRK12 \$\$EDT L'*SYSVAL' L*BLANKS L'*JUL' L'*NONE'	SSEDT 60 SSIDAT 6 FFRET 7 BEDAT 8 FTRET 7		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 0800000000000 081000000000 082000000000 083000000000 08400000000
CS CS CS CS CS CS CS	IR TIME IR MOVE	\$WRK12 \$\$EDT L'*SYSVAL ' L*BLANKS L'*JUL ' L'*NONE '	\$\$EDT 60 #SIDAT 6 #FFMT 7 #EDAT 8 #TFMT 7 #SEP 7		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 080000000000 081000000000 082000000000 083000000000 08400000000 085000000000
CS CS CS CS CS CS CS CS CS CS CS CS CS C	IR TIME IR MOVE	\$WRECL2 \$SELT L'*SYSVAL ' L*BLANKS L'*JUL ' L'*NONE '	\$\$EDT 60 \$SIDAT 6 \$FINT 7 \$EDAT 8 \$TINT 7 \$SEP 7 \$ERTST 1		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 08500000000000000000000000000
CS CS CS CS CS CS CS	IR TIME IR MOVE IR CALL	\$WENT2 \$SELT L'*SYSVAL' L*NLANKS L'*JUL' L'*NONE' 'X0028'	\$\$EDT 60 #SIDAT 6 #FFMT 7 #EDAT 8 #TFMT 7 #SEP 7		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 081000000000 081000000000 082000000000 082000000000 084000000000 085000000000 085000000000 08500000000
CS CS CS CS CS CS CS CS CS	IR TIME IR MOVE IR MOVE IR NOVER	\$MENTS \$SEDT L'SYSTAML L'SISTAML L'SIGNAM L'NIUL L'NONE 'X0028'	\$SEDT 60 #SIDAT 6 #FIDAT 7 #EDAT 8 #TDAT 8 #TDAT 7 #SEP 7 \$ERFST 1		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 08500000000000000000000000000
CS CS CS CS CS CS CS CS CS CS	IR TIME IR MOVE IR FARM IR FARM IR FARM	\$MRK12 \$SEDT L'*SYSVAL' L*BLANKS L'*JUL' L'*JUL' 'X0028'	SSEDT 60 SSIDAT 6 SSIDAT 7 SEDAT 8 STORT 7 SSERTST 1 SSIDAT 8 SSIDAT 8		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 08500000000000000000000000000
CS C	IR TIME IR MOVE IR MOVE IR MOVE IR NOVE IR ROPE IR FARM IR FARM IR FARM IR FARM IR FARM	\$MERT2 \$SEDT L'SYSTAL' L'BLANKS L'SJUL' L'NOME' ,'X0028'	\$SEDT 60 #SIDAT 6 #FIDAT 7 #EDAT 8 #TIDAT 7 \$ESEP 7 \$ESEP 7 \$ESEP 1		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	079000000000 081000000000 081000000000 082000000000 082000000000 084000000000 084000000000 08400000000
CS C	TIME PASSE RE MOVE RE RAME RE FAAM RE FAAM RE FAAM RE FAAM RE FAAM	\$WEK12 \$\$EDT L*SYSVAL' L*BLANKS L*JUL' NONE',	SEEDT 60 HEIDAT 6 HEIDAT 7 HEIDAT 7 HEIDAT 7 HEIDAT 7 HEIDAT 1		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	07900000000 0850000000000 0850000000000 08500000000
CS C	IR TIME R MOVE IR FARM IR F	\$WEK12 \$\$EDT L*SYSVAL' L*BLANKS L*JUL' NONE',	SUBST 60 SIDNT 6 SIDNT 6 SIDNT 7 SEDRT 7 SUBST 7 SUBST 1 SIDNT SEDRT 1 SIDNT SEDRT SEDRI SEDRT SEDRT SEDRT SEDRT SEDRT SEDRT S		5999-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1	07900000000 0850000000000 0850000000000 08500000000
CS C	IR TIME IR MOVE IR MOVE IR MOVE IR MOVE IR NOVE IR PARM IR FARM	SWERT2 SSEDT L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' SSEDT	SEMINT 60 STIDAT 6 STIDAT 6 STIDAT 7 STIDAT 7 SEMINT 7 SEMINT 1 SEMINT 1 SEMINT STIDAT STIDAT STIDAT SEMINT STIDAT SEMINT		5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1 5999-1	07900000000 081000000000 081000000000 08100000000
CS C	IR TIME IR MOVE IR PARM	SWERT2 SSEDT L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' L'SIDVAL' SSEDT	SEMINT 60 STIDAT 6 STIDAT 6 STIDAT 7 STIDAT 7 SEMINT 7 SEMINT 1 SEMINT 1 SEMINT STIDAT STIDAT STIDAT SEMINT STIDAT SEMINT		5999-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1 5399-1	07900000000 0850000000000 0850000000000 08500000000

Figure F–12 Program Code for Program Type B0010 (11 of 11)

C	5999-1 097000000000
/*	5999-1 098000000000
/* If processing options exist, include copy module	5999-1 099000000000
/*	5999-1 100000000000
FIDNC *OPTION ZOPTIONC	5999-1 101000000000
COBA Carressessessessessessessessessessessesses	5999-1 102000000000
MF 0401PMT E UNLOCK	5999-1 103000000000

Functional Servers

This appendix contains the topic:

Section G.1, "Example: Voucher Processing Functional Server."

Several JD Edwards World programs access functional servers. The purpose of functional servers is to provide a central location for standard business rules about entering documents, such as vouchers, invoices, and journal entries. These business rules establish the following:

- Data dictionary default values
- Field edits and valid values
- Error processing
- Relationships between fields or applications

The advantages of using a functional server include:

- Reduces maintenance of entry programs because edit rules reside in one central location.
- Allows you to standardize documents across all applications because you create them using the same business rules.
- Separates the user interface (screen appearance and interaction) from the functions of a program.

The steps for setting up business rules for an entry program are:

- 1. Create a DREAM Writer version for a specific functional server program (for example, XT0411Z1 for voucher entry).
- Set the processing options within the version according to your company requirements.
- 3. Specify the version you want the entry program to use in the processing options for that entry program.

You can have all your entry programs use the same DREAM Writer version (and thus, use the same rules) or you can set up different DREAM Writer versions. JD Edwards World provides DREAM Writer version ZJDE0001 as the default functional server version for your entry programs.

Caution: Only the person responsible for system-wide setup should make changes to the functional server version. For more information about how to set up DREAM Writer versions, see Understand DREAM Writer in the *ID Edwards World Technical Foundation Guide*.

G.1 Example: Voucher Processing Functional Server

The following programs use the voucher processing functional server. JD Edwards World provides two demo versions of the functional server, ZJDE0001 and ZJDE0002.

- Speed Voucher Entry (P040015)
- Standard Voucher Entry (P04105)
- Void Payment Entry (P4704103)
- Credit Tied to Debit Bill (P041010)
- Multi-Voucher (P041017)
- Calculate Withholding (P04580)

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