

JD Edwards World CASE Guide

Release A9.2

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Contents

4	\sim	•
	()v	erview

Overview to Computer Aided Software Engineering (CASE)	1-1
System Integration	1-1
Features	1-3
Terms and Concepts	1-4
Detailed Information	1-5
Menu Overview	1-8
Foundation	
Foundation	2-1
About Foundation Information	2-1
Work with Prerequisites JD Edwards World Provides	2-3
Working with Prerequisites JD Edwards World Provides	2-3
Work with User-Provided Prerequisites	2-9
Development Libraries	2-9
Multi-member Source File (JDESRC)	2-9
Job Queues	2-11
Project Management	2-11
CASE Profiles	2-12
Object Authorities	2-17
Program Generator	
Overview to Program Generator	3-1
About Program Generator Steps	3-1
Access Program Generator Specifications	3-3
Function Exits	3-6
	Foundation About Foundation Information Work with Prerequisites JD Edwards World Provides Working with Prerequisites JD Edwards World Provides. Work with User-Provided Prerequisites Development Libraries. Multi-member Source File (JDESRC) Job Queues. Project Management CASE Profiles. Object Authorities. Program Generator Overview to Program Generator About Program Generator Steps. Access Program Generator Specifications

	Define Program Purpose and Type	3-9
	Work with File Specifications	3-17
	Define General Instructions	3-27
	Define Option and Function Exits	3-33
	Work with the Detailed Programming Facility	3-39
	About the Detailed Programming Facility	3-42 3-47 3-51 3-52 3-54 3-55 3-56
	Define Processing Options	3-57
	Defining Processing Options	3-60
4	Program Design Language Overview to Program Design Language	
	About PDL Statements and Syntax	
	About PDL Statements	
	About Blocks of Statements	
	About Assignments	
	About Assignments	
	About Program Calls	
	About Loops	
	About Conditions	4-11
	About Miscellaneous Keywords and Syntax	4-13
	Understand Additional PDL Operations	4-17
	Editing	4-17
	Parsing	
	Source Code Generation	
	Data Item Formula Examples	4-18

	Work with Data Item Formula Revisions	4-21
5	Source Modifications	
	Overview to Source Modifications	5-1
	About Source Modifications	5-1
	Change Generated Source Code	5-3
	Regenerate Source Code	5-7
	When to Regenerate Source Code	5-7
	Changing CAP Status	
	Resolving CAP Status Invalid Error	5-9
	Work with Model Control Language Programs	5-11
	JD Edwards World Model CL Programs	5-12
6	CASE Programs	
	Overview to CASE Programs	6-1
	About CASE Programs	6-1
	Overview to Subfile Inquiry Programs	6-3
	Overview to Subfile Maintenance Programs	6-5
	Create Report Programs	6-7
	Understanding RDA Special Use Fields	6-7
	Creating a Total Format	
	Defining a Subheading	
	Understanding DREAM Writer Considerations	0-14
7	Additional Tools	
	Overview to Additional Tools	7-1
	About Additional Tools	7-1
	Work with Quick Start CL Generator	7-3
	Work with the Quick Start Application Tool	7-7
	Defining the Application	
	Selecting Data Fields	
	Browsing or Updating the Screens or Reports (Optional)	7-11

	Compiling the Screens or Report (Optional)	7-12
	Modifying Specifications (Optional)	7-13
	Submitting the Program to Compile (Optional)	7-14
	Updating the Data Dictionary and Glossary	7-15
	Work with Action Diagramming	7-19
	Building an Action Diagram	7-19
	Viewing an Action Diagram	7-20
	Accessing the Logic Translation Feature	7-24
8	Source Code Inventory and Database	
	Overview to Source Code Inventory and Database	8-1
	About the Source Code Inventory and Database	8-1
	Understand Source Sequence	8-3
	Working with Program Types	8-7
	Reviewing Abbreviations for Program Types	8-7
	Reviewing Program Types Index	
	Reviewing Program Types Cross Reference	
	Creating or Modifying Program Types	8-10
	Work with Logic Modules	8-13
	Viewing the Logic Module Index	8-14
	Viewing Logic Module Cross Reference	8-15
	Viewing Logic Module Op Codes	8-16
	Maintaining the Logic Module File	
	Creating or Modifying Logic Modules	
	Creating or Modifying Formula Library Entry	
	Copying or Moving Program Specifications	
	Printing Program Generator Specifications	
	Reviewing Source Modifications	
	Using Program Generator Updates	
	Using CASE Specifications Inquiry	8-23
	Understand Directives	8-25
	Work with the Question and Answer System	8-37
	Reviewing Questions in a Master Dialogue	
	Adding New Q & A Dialogue	
	Working with an Existing Dialogue	8-42

iv JD Edwards World

	Create User Defined PDL	8-51
9	Appendices	
	Appendix A - Program Generator Checklist	9-1
	Appendix B - Programming Standards	9-5
	Appendix C - CASE Program Types	9-9
	Appendix D - Source Listings	9-39
	Appendix E - JD Edwards World Subroutines and Flows	9-79
	Subroutines	9-79
	Flows	
	Appendix F – Sample Code	9-87
	Appendix G - Functional Servers	9-99

1 Overview

Overview to Computer Aided Software Engineering (CASE)

This section contains the following:

- System Integration
- Features
- Terms and Concepts
- Detailed Information
- Menu Overview

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.

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.

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.

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

Evolution of the Program Generator

Clone II Programs

Dynamic Data Dictionary

1-2 JD Edwards World

 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

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.

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.

Terms and Concepts

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.

1-4 JD Edwards World

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.

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.

Detailed Information

CASE Profile

See the *Advanced Programming Concepts and Skills (APCS) 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.

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)

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

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

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.

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.

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

1-6 JD Edwards World

The files the program uses

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

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

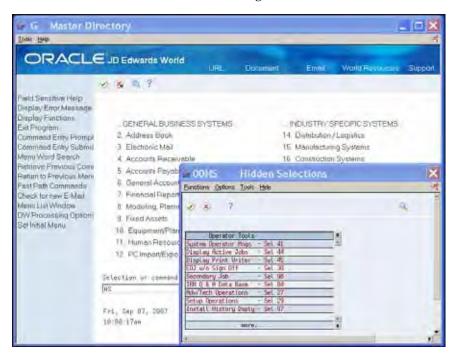
Conversion

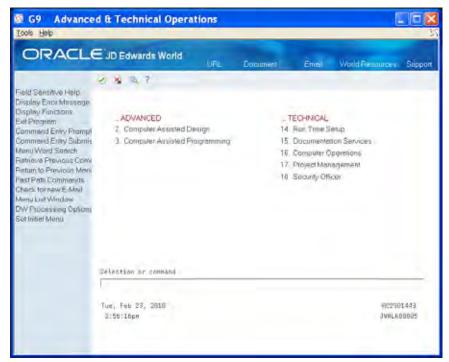
- Use this program type to convert data from one file to another
- Can contain a report

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.

Menu Overview

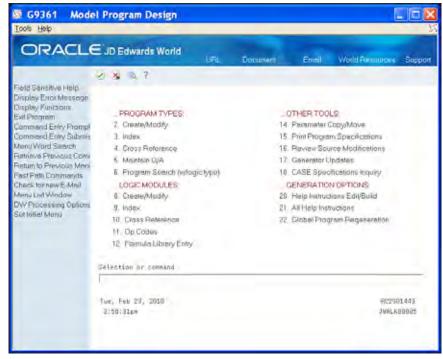
JD Edwards World systems are menu driven. System functions are organized according to their function and frequency of use. The options on these screens illustrate the flow to the functions in this guide.





1-8 JD Edwards World





2 Foundation

Foundation

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

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 ID Edwards World Files

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.

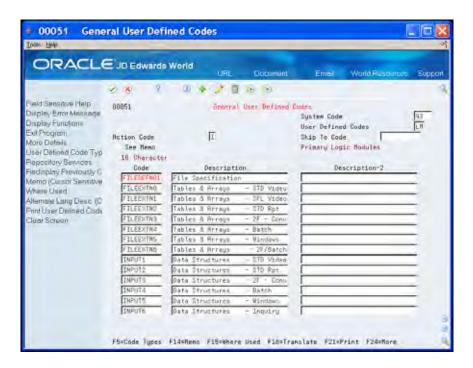
- Dialogue Master (F00501)
- Dialogue Detail (F00502)
- Dialogue Questions (F00510)
- Dialogue Responses (F00511)
- Dialogue Text (F00512)

Common UDCs

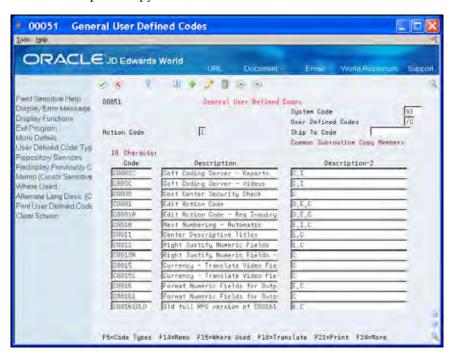
The Program Generator uses the following four UDCs:

 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.

2-4 JD Edwards World



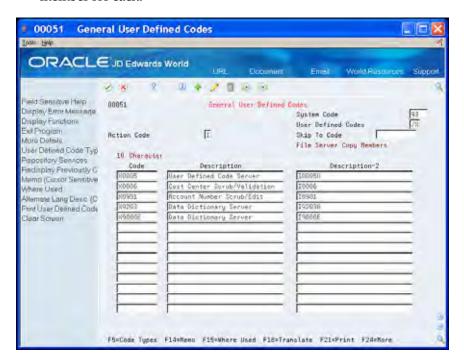
 Common Subroutine Copy Members, 93//C. Lists all of the copy modules on the system. Description-2 field contains any additional copy modules that are necessary to make the common subroutine function properly. For example, C0012 requires copy module E0012.



Alphanumeric Code	Type of Copy Module
D	Copy the member into the F specifications

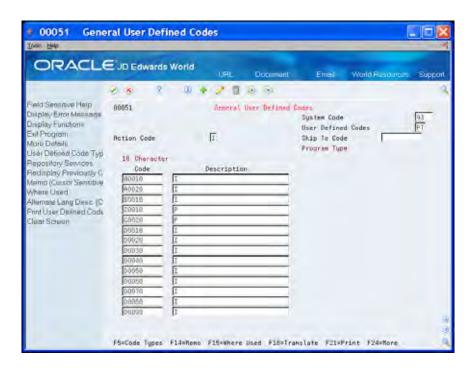
Alphanumeric Code Type of Copy Module	
E	Copy the member into the E specifications
I	Copy the member into the I specifications
С	Copy the member into the C specifications

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



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

2-6 JD Edwards World



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.

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.

Work with User-Provided Prerequisites

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 the following additional prerequisites:

- Development Libraries
- Multi-member Source File (JDESRC)
- Job Queues
- Project Management
- CASE Profiles
- Object Authorities

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		

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

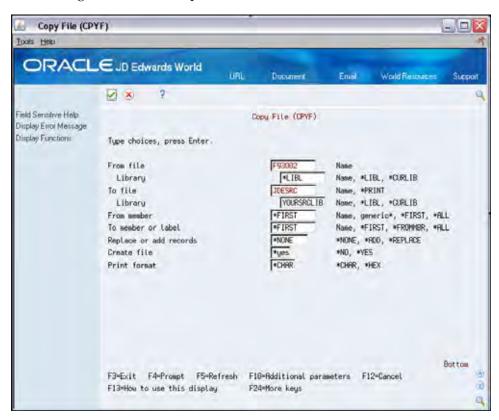
1. Enter the following on the Command Line:

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.



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

2. Enter the following on the Command Line:

RMVM FILE(LIBRARY/JDESRC) MBR(F93002)

2-10 JD Edwards World



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

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 users.

Project Management

You must determine the following regarding Project Management:

1. 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 the Advanced Programming Concepts and Skills (APCS) 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.

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.

2-12 JD Edwards World

- 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.

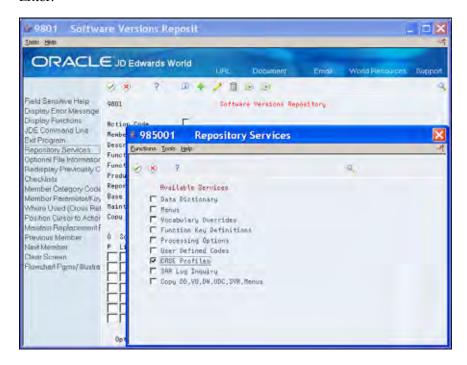
Value in the SAR Delivery field	SAR Logging
*NONE	No SAR logging at all.
*LOG	The system does not include a SAR number as part of the SAR logging.
*DFT	The system uses the SAR number you specify for the SAR logging.
*PROMPT	The system prompts you for a SAR number and revision notes when it creates an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

To access CASE profiles



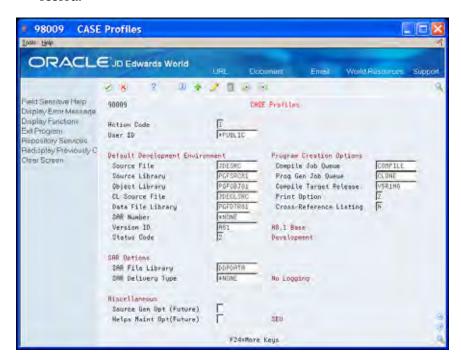
From Computer Assisted Design (G92), choose Case Profiles

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



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.

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



2-14 JD Edwards World

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.
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.

Field	Explanation	
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.	

2-16 JD Edwards World

Function Exits

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

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.

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.

Source Library

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

Source File

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

Job Queues

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

3 Program Generator

Overview to Program Generator

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

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 chapter includes the following tasks:

- To access the Program Generator
- To access Program Generator options

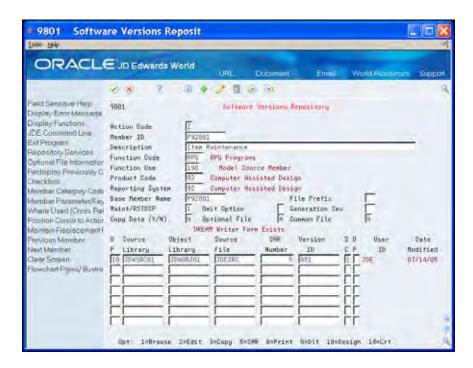
To access the Program Generator

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



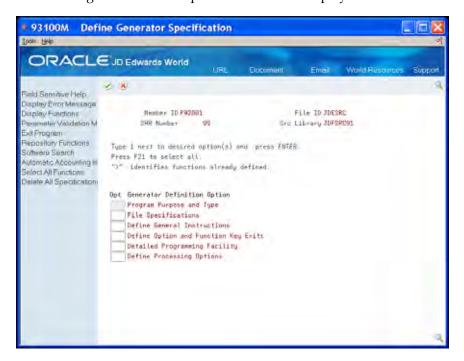
From Computer Assisted Design (G92), choose Software Versions Repository

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



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

The Program Generator Specification screen displays.

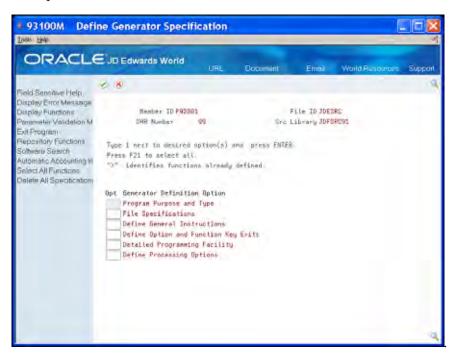


3-4 JD Edwards World

To access Program Generator options

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

Option



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.

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.

3-6 JD Edwards World

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

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

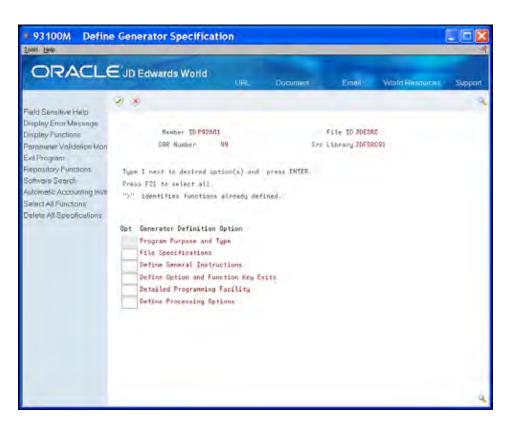
The Dialogue Selection screen is a series of questions you use to determine the Program Type.

This chapter includes the following tasks:

- To define program purpose and type
- To identify program type

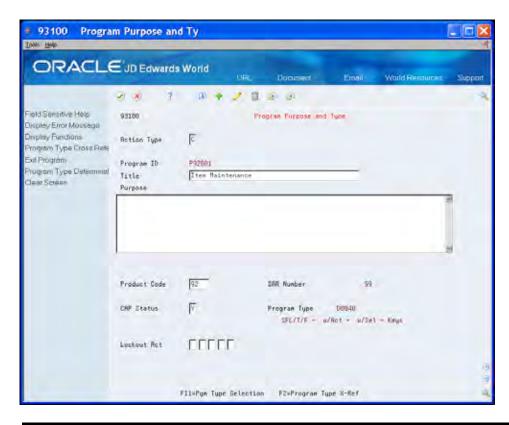
To define program purpose and type

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



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

3-10 JD Edwards World



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.

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.

3-12 JD Edwards World

To identify program type

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



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

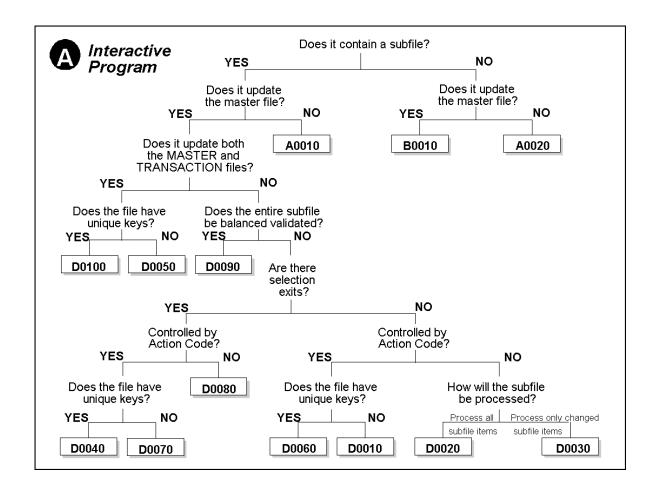
What is the general type of program? Interactive A Interactive form E0010 Print a report

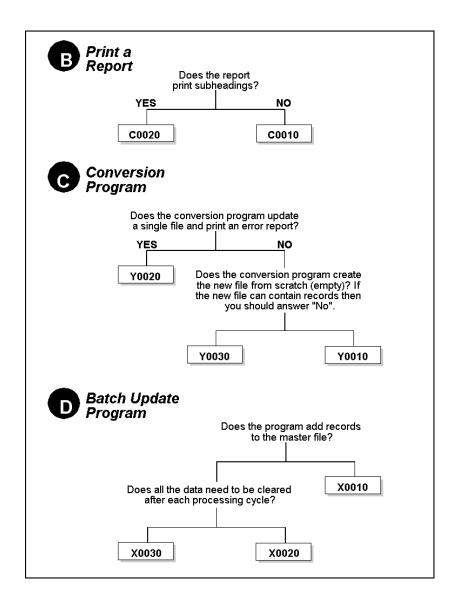
Batch update program

Conversion program

D

3-14 JD Edwards World





3-16 JD Edwards World

Work with File Specifications

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

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) Inquiry	Specify the master file with an M or 1 in
A0020	Single Record Inquiry	the Input field.
C0010	Standard Report	
C0020	Standard Report —	
C0025	Subheading	
E0010	Standard Report — Subheading above Columns	
	Window	

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

The Program Generator requires that you:

3-18 JD Edwards World

- 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.

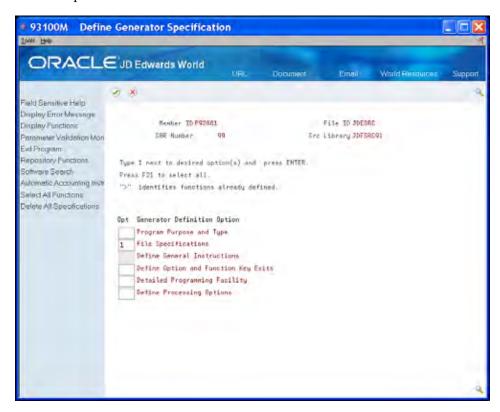
After you complete the appropriate fields on the File Specifications screen, a job runs interactively that analyzes the file specifications and creates records for three Program Generator files. As the system processes this job, messages display at the bottom of the screen.

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.

Note: 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.

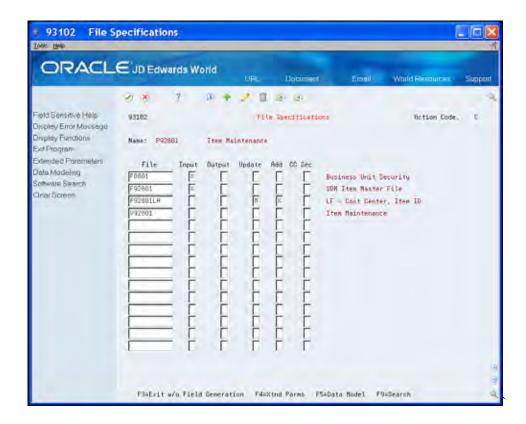
To enter file specifications

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



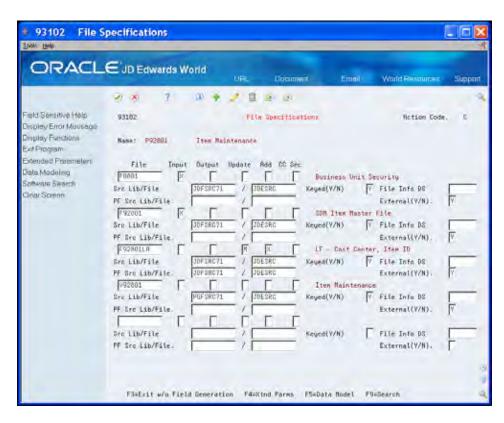
- **2.** On File Specifications, complete the following field:
 - File
- **3.** Complete the appropriate field:
 - Input
 - Output
 - Update
 - Add

3-20 JD Edwards World



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.

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



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.	

3-22 JD Edwards World

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.

Field	Explanation
PF Src Lib/File	Library where the source resides for the physical file linked to the logical file.
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.

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.

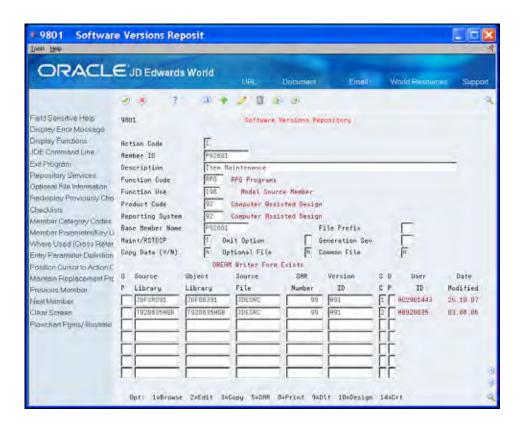
Notice that the system updates the fields on this screen from your File Specifications.

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.

3-24 JD Edwards World



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

Define General 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).

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.
/	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 (\sim) on your keyboard.

Special Characters within Help Instructions

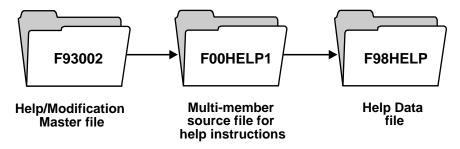
You can use the special characters to display fields with specific attributes. You begin and end the text selection as follows.

To underline General Use, enter | General Use |

To highlight Additional Features, enter ~Additional Features~

To underlines and highlight Special Considerations, enter \$\partial 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).



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:

3-28 JD Edwards World



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

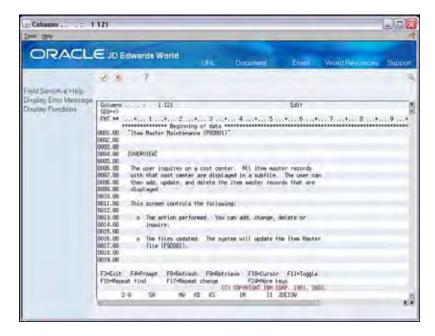
To define general instructions

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



2. 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.

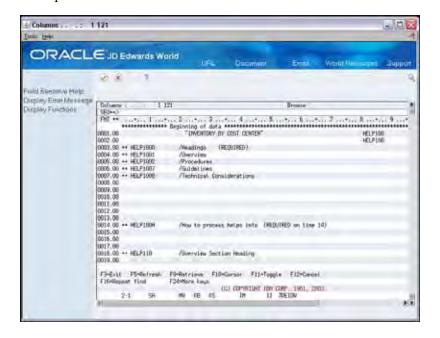


To update the help instructions

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



3-30 JD Edwards World

Define 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.

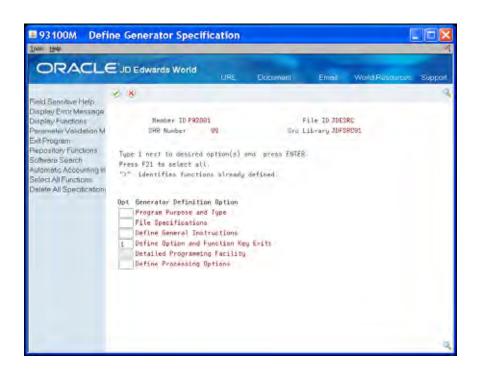
The system stores information for CASE in the Program Exit Parameters file (F93104).

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.

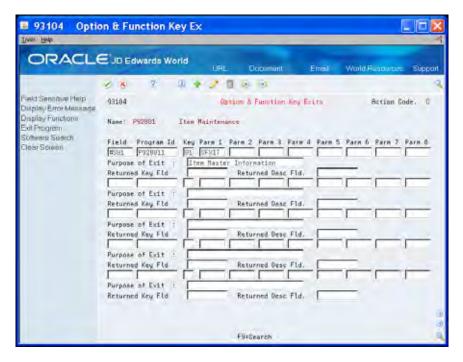
To define option and function exits

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



- **2.** 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

3-34 JD Edwards World



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

Field	Explanation
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.
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.

3-36 JD Edwards World

Field	Explanation
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
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

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.

What You Should Know About

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.

3-38 JD Edwards World

Work with the Detailed Programming Facility

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).

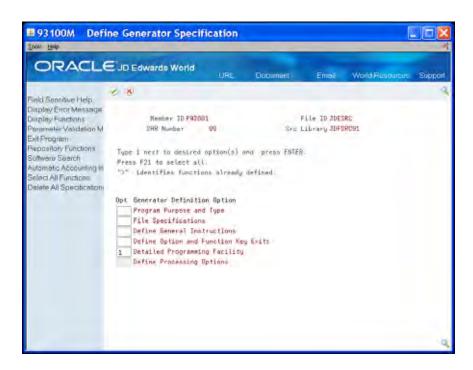
This chapter includes the following:

- About the Detailed Programming Facility
- About Full Data Field Parameters
- Loading VC0 Description Fields
- Enabling the Database Update Function for Subfiles
- Creating *ENTRY PLIST Entries
- Protecting Fields from Being Cleared
- Disabling Data Dictionary Edits
- Creating a Partial KLIST for a File

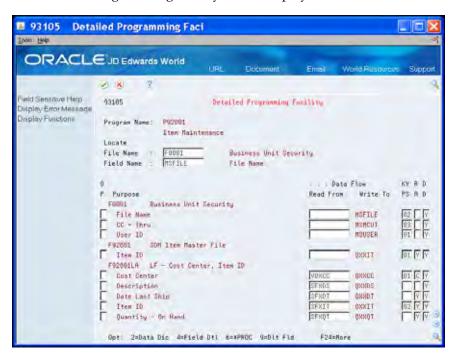
About the Detailed Programming Facility

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.



The Detailed Programming Facility screen displays.



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

3-40 JD Edwards World

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.

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.

Value	Description
9 - Delete Record	Allows you to delete a field from the Detailed Programming Facility.

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.

About Full Data Field Parameters

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

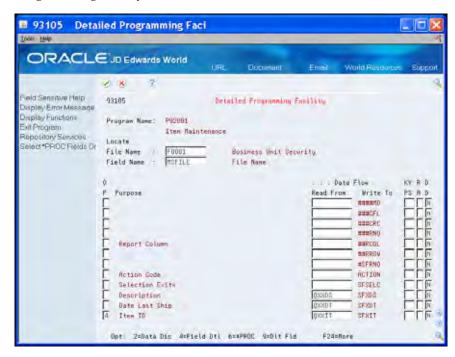
Primary Uses of Full Data Field Parameters

The primary uses of full data field parameters include:

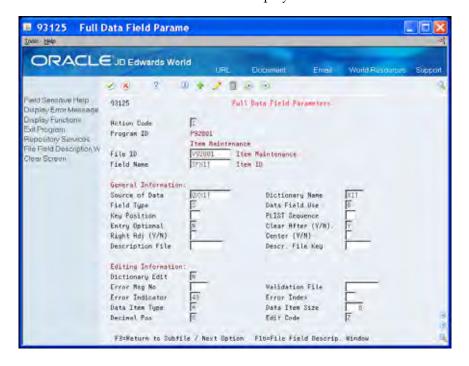
- Loading VC0 description fields: The system can store VC0 (descriptive data) about either a screen (video) or report in another file. Use this screen to enter the file in which you want the system to store the data about the field, the file key, where you want the system to store the description and 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

3-42 JD Edwards World

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.



The Full Data Field Parameters screen displays.



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.

3-44 JD Edwards World

Field	Explanation
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
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

Field	Explanation
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.
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).

3-46 JD Edwards World

Field	Explanation	
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.	

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.

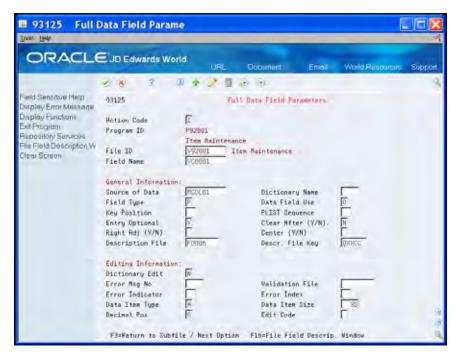
- If the cursor is in the Description File Key field, and this field:
 - Contains a file name, the system enters the fields on the screen with the fields from the description file.
 - Is blank, the system displays a blank File Field screen for you to enter a file name and then displays the fields from 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.

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).

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.

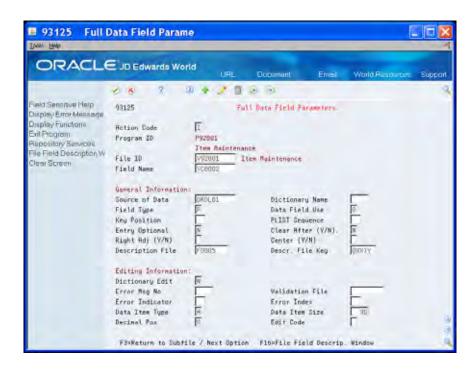


Example: User Defined Code

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.

3-48 JD Edwards World



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.

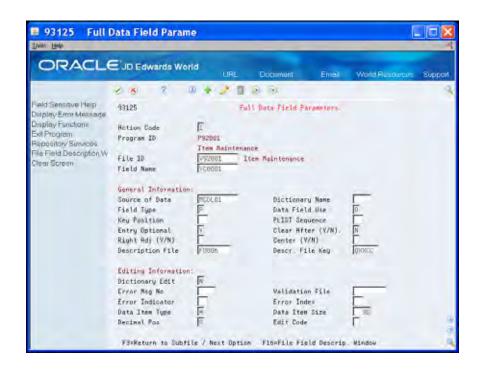
Loading field descriptions using this approach only works if the system enters the field description into a VC0 field.

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



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).

3-50 JD Edwards World

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:

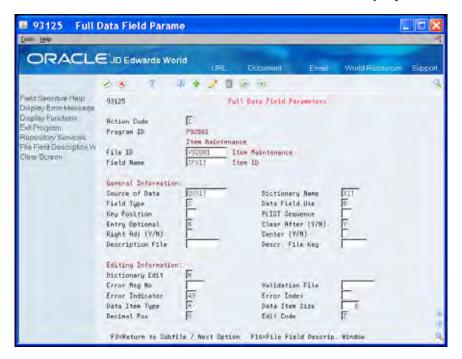
- If Item ID is blank, but there is a database record for the subfile record, then the system deletes the database record.
- If Item ID is not blank, then the system saves or updates the database depending on whether the database record exists in the subfile.

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

- 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.



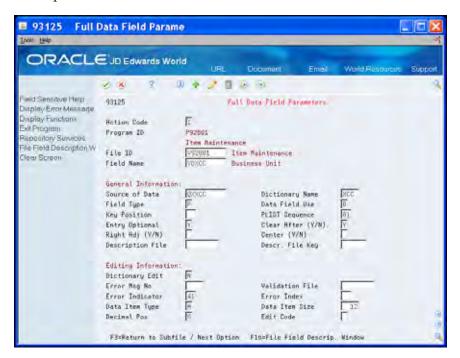
Creating *ENTRY PLIST Entries

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

Example

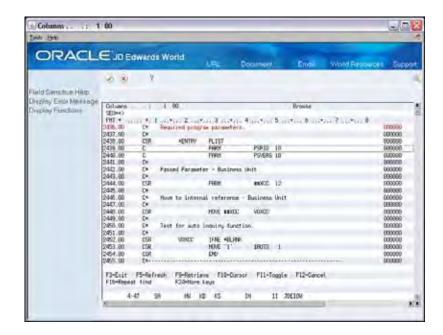
The system uses data item VDXCC as the third parameter in the entry list of Subroutine S999. The program generator creates a field name, which is the same data dictionary item with a prefix of ##. The system moves this parameter field to VDXCC from the parameter field.

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



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 (\$003).

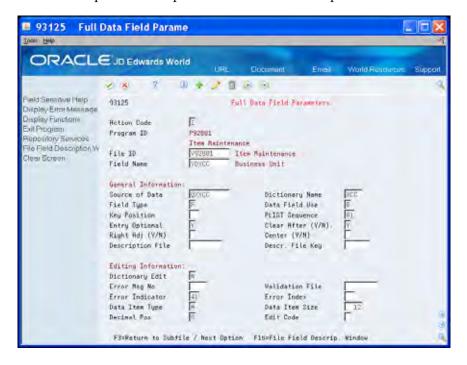
3-52 JD Edwards World



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.



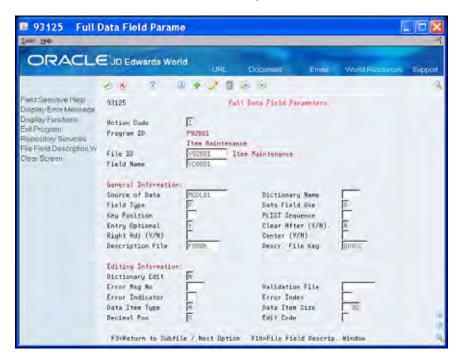
Protecting Fields from Being Cleared

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.



What You Should Know About

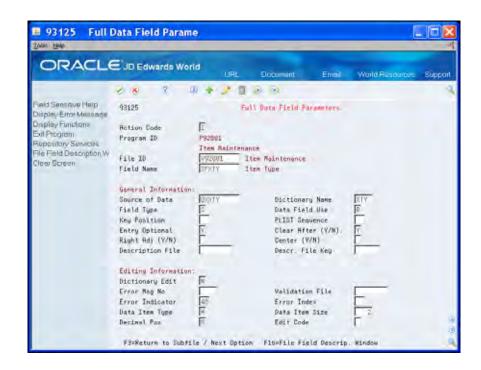
User Error Messages

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.

3-54 JD Edwards World

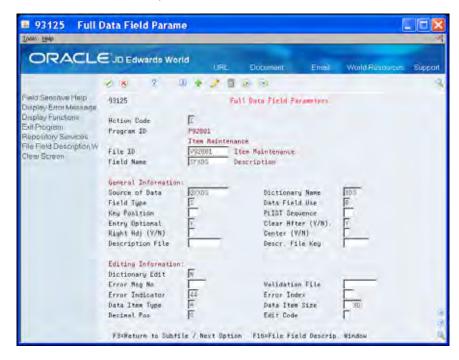


Disabling Data Dictionary Edits

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.



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.

Example

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

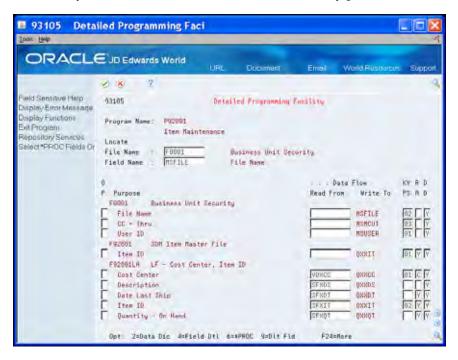
- User ID
- File Name
- Through Business Unit

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.



3-56 JD Edwards World

Define Processing Options

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;

end

- 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.

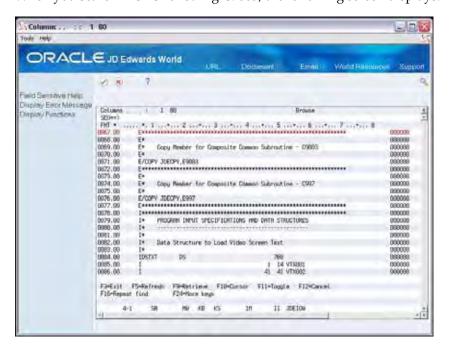
What You Should Know About

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.

Example – Interactive Programs Using Processing Options

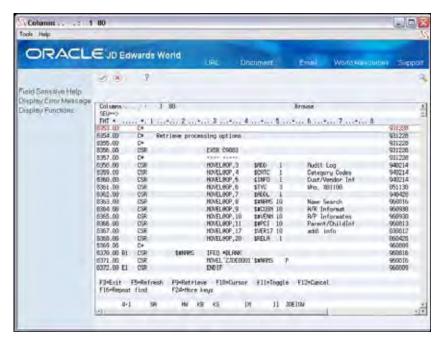
Following is an example of an interactive program containing processing options. When you search in SEU for string C9803, the following screen displays:



3-58 JD Edwards World

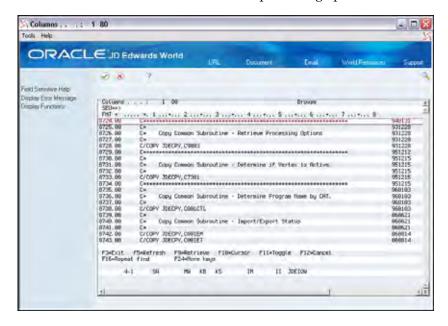
This code copies the E Specs that relate to the common subroutine. This code defines all necessary arrays and tables for the copy module C9803. Typically, you add copy statements such as this at the end of the E Specs.

The next section of code in this program which relates to processing options followings:



The system loads the @OP array for the processing options. @OP,1 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 which relates to processing options follows:



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.

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.

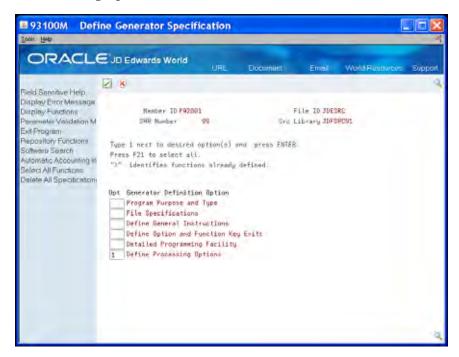
Defining Processing Options

This section includes the following tasks:

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

To enter processing options

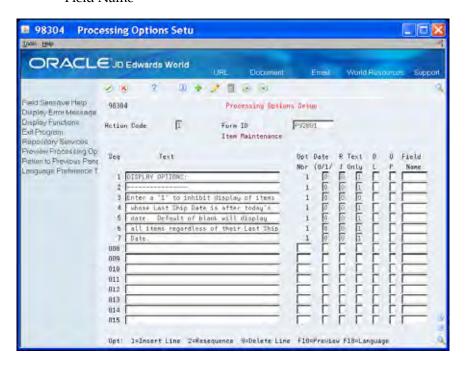
1. On Define Generator Specifications, enter 1 in the Option field to access Define Processing Options:



2. Complete the following fields on Processing Options Setup:

3-60 JD Edwards World

- Sequence
- Text
- Option Number
- Date (0/1/
- RJ (Right Justify)
- Text Only
- DL (Display Level)
- Field Name



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.

Field	Explanation			
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.			
	Indicates that a date is to be stored in the processing option as a Gregorian date in month, day and year format.			
	Indicates that a date is to be stored in the processing option as a Julian date in century, year and day format.			
	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".			
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.			

3-62 JD Edwards World

Field	Explanation			
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.
 - 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.

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.

3-64 JD Edwards World

4 Program Design Language

Overview to Program Design Language

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

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

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About PDL Statements 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.

This chapter includes the following:

- About PDL Statements
- About Blocks of Statements
- About Comments
- About Assignments
- About Database Operations
- About Program Calls
- About Loops
- About Conditions
- About Miscellaneous Keywords and Syntax

About PDL Statements

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

- Keywords
- Variables
- Database Files
- Operators
- Constants

Punctuation

Keywords

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

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.

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.

4-4 JD Edwards World

Operators

You define the valid assignment and arithmetic operators.

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.

Punctuation

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

About Blocks of Statements

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

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;
End
```

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
```

About Comments

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.

Rules

Comment lines must not exceed 50 characters.

For example: Initial Comment

\ Compute extended amount. \

JD Edwards World

```
Begin

$#xtp := q2xqt * q2uncs;

End

For example: Embedded Comment

Begin

$#am1 := 0; \ Order Total \

$#xtp := 0; \ Extended Amount \

End
```

About Assignments

Operator and Syntax in as

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		
<	Truncate and Concatenate		
SST	Substring		
	The syntax is: $variable := SST (field, n1, n2)$		
	n1 = start position		
	n2 = length of string		

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;

$cc := SST (qxxcc,3,10)
```

About Database Operations

Keywords and Syntax

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

JD Edwards World

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
```

About Program Calls

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;

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
```

About Loops

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)
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.

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 in98 = '0' Do

Begin

$#xtp := q2xqt * q2uncs;
```

4-10 JD Edwards World

\$#am1 := \$#am1 + \$#xtp; reade f59422;

End

End

About Conditions

Keywords and Syntax

Keywords	Explanation			
If	Provides for conditional processing.			
	 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)

Symbols

Symbols	Explanation
=	Equal
≠	Not Equal
>	Greater Than
<	Less Than
>=	Greater Than or Equal To
<=	Less Than or Equal To

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 in98 = '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
```

4-12 JD Edwards World

About Miscellaneous Keywords and Syntax

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;

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.



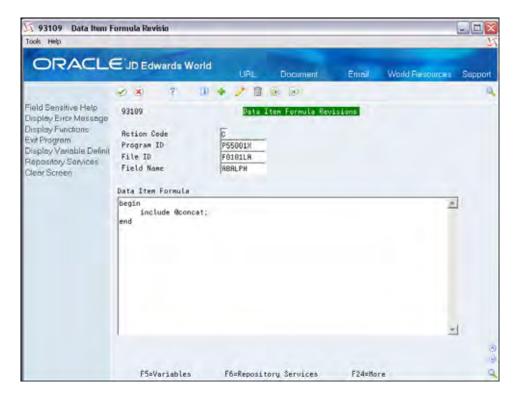
The include module should have a unique name, for example @CONCAT.

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.

JD Edwards World



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 includes additional information about Program Design Language (PDL) operations:

- Editing
- Parsing
- Source Code Generation
- Data Item Formula Examples

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).

You can enter a maximum number of 200 statements.

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.

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.

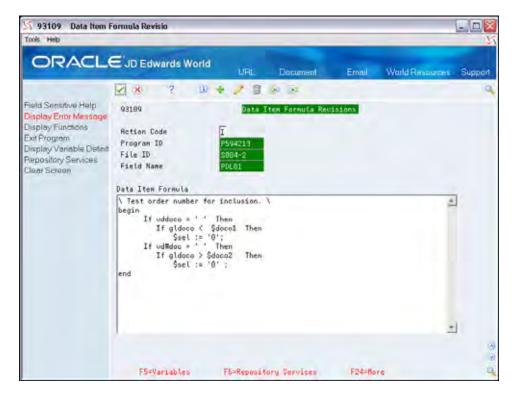
The generator lists the fields in the Detailed Programming Facility in alphabetical order, and you cannot change the order.

Data Item Formula Examples

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

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.



4-18 JD Edwards World

This exam	ple also illustrates	the following	types of PD	L statements:

Type of PDL Statement	Description
Assignment	\$sel := '0';
Blocks	beginend
Comment	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Condition	If q1doco < \$doco1 Then \$sel := '0';

Additionally, this example illustrates the nesting of conditions.

```
If vddoco = '' Then

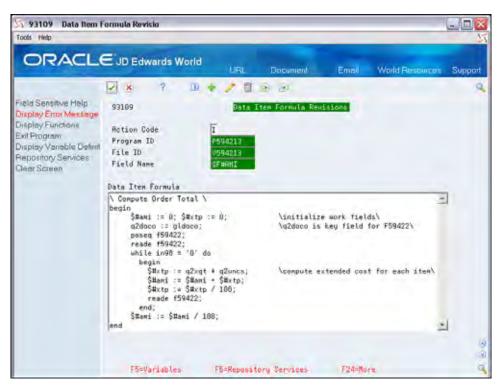
If q1doco < $doco1 Then

$sel := '0';
```

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

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.



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
Comments	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.

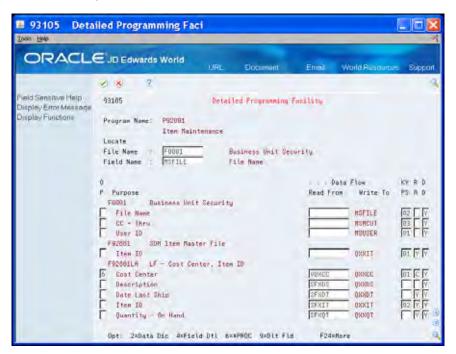
JD Edwards World

Work with Data Item Formula Revisions

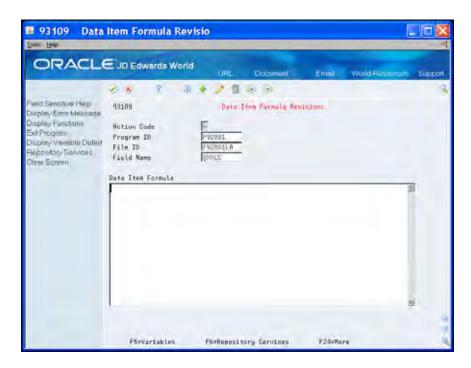
Use the Data Item Formula Revisions screen to add Program Design Language (PDL) to a field.

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.



The Data Item Formula Revisions screen displays.



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

Field	Explanation
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.

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.

4-22 JD Edwards World

5 Source Modifications

Overview to Source Modifications

Objectives

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

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 Control Language Programs

Change Generated Source Code

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.

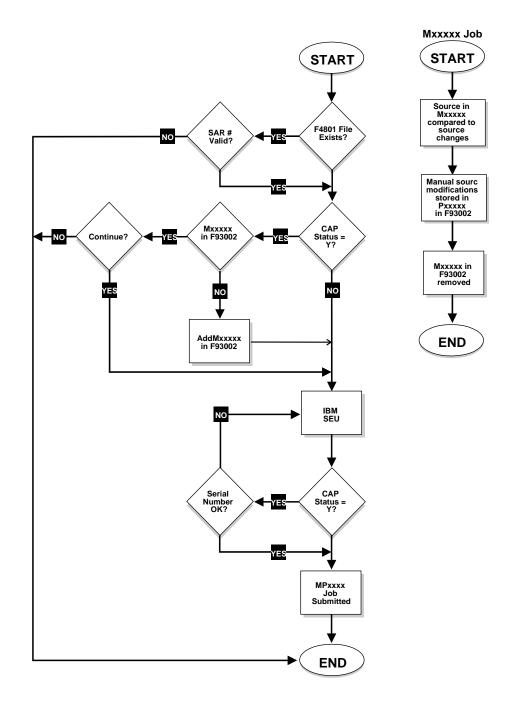
Pre-SEU and Post-SEU Process

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.



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.

5-4 JD Edwards World

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:

- **1.** Access Define General Specifications.
- **2.** 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

When regenerating source code you should know:

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

This chapter includes the following:

- When to Regenerate Source Code
- Changing CAP Status
- Resolving CAP Status Invalid Error

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.

Changing CAP Status

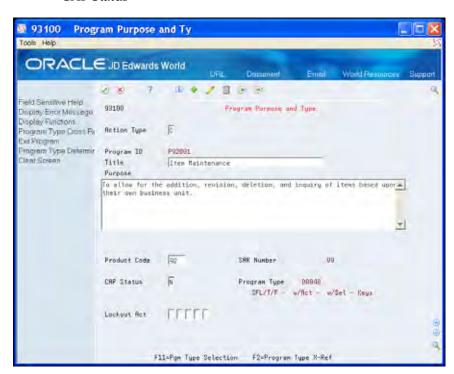
If you change the CAP Status field, the system deletes the changes in the Source Entry Utility that it stores in the P member of the Additional Help/Modifications Master file (F93002). JD Edwards World recommends that you do not change the CAP Status field unless the changes you make to your program 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
- **2.** On Program Purpose and Type, enter N in the following field.
 - CAP Status



The Delete KBG Modifications screen displays.

5-8 JD Edwards World



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

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 Resolve	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.		
Ensure the Pxxxxx member exists in the Additional Help/Modifications Master file	• The Pxxxxx member must exist in order to generate a program.		
(F93002).	 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.			

5-10 JD Edwards World

Work with Model Control Language 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.

This chapter includes the following tasks:

- To copy a model CL
- To customize a CL model

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.

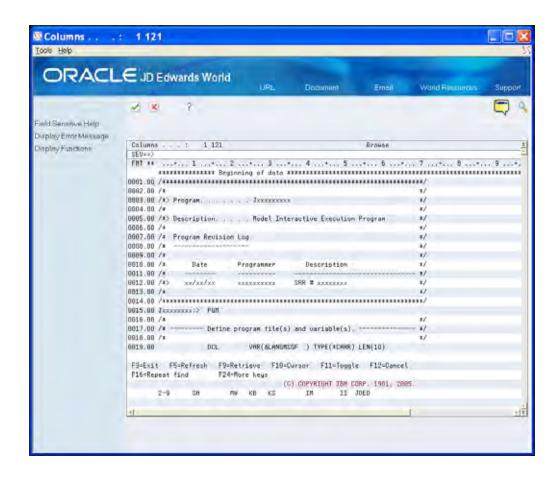
To copy a model CL

- **1.** On Software Versions Repository, locate a model.
- **2.** Enter 3 in the Option field next to the program.
- **3.** Click Enter in the Copy Source Prompt window.
- **4.** On Software Versions Repository, enter 2 in the Option field next to the program.

The source code displays.

5. 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.



To customize a CL model

1. 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.

- **2.** Exit and save the CL program.
- **3.** Compile the program.

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.

5-12 JD Edwards World

Model CL Programs	Description
J98MODEL3	Serves as a template for interactive programs that need a prompt for parameters.
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 pageheading functions to the RPG report program.
J98MODEL6	Serves as a template for batch CL programs that require all DREAM Writer functions.
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 *Work with Quick Start CL Generator* for more information.

6 CASE Programs

Overview to CASE Programs

Objectives

To create CASE programs

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

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.

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.

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.

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.

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.

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.

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.

Quick Start Generation

You can generate this program type using Quick Start.

JD Edwards World

Overview to Subfile Maintenance Programs

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.

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.

Display File Definition

Th 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.

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.

File Specifications

Th 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.

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.

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.

Quick Start Generation

You can generate this program type using Quick Start.

6-6 JD Edwards World

Create Report Programs

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 *Technical Tools Guide* for more information.

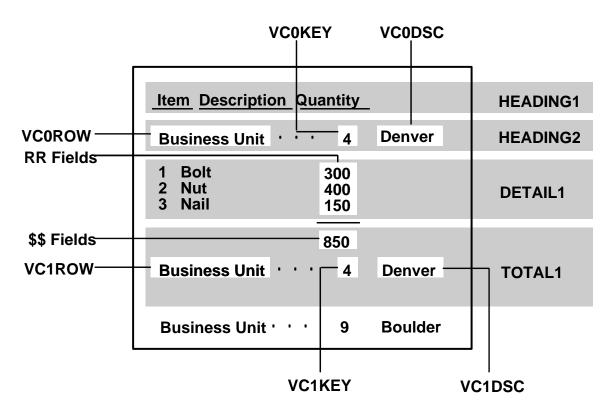
Note: The Report Design Aid is currently not available in the Java platform for JD Edwards World software. You must create reports using the green screen platform of the software.

This chapter includes the following:

- Understanding RDA Special Use Fields
- Creating a Total Format
- Defining a Subheading
- Understanding DREAM Writer Considerations

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.



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.

6-8 JD Edwards World

Field	Explanation
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.

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:

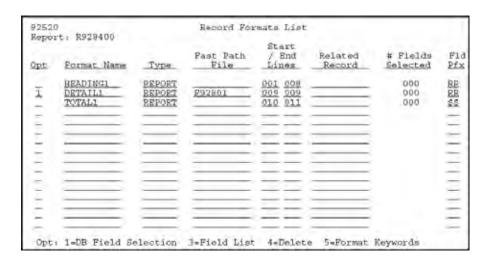
- The field description of the level break
- The value of the field at the level break
- The description of that value

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

Business Unit 5 San Francisco

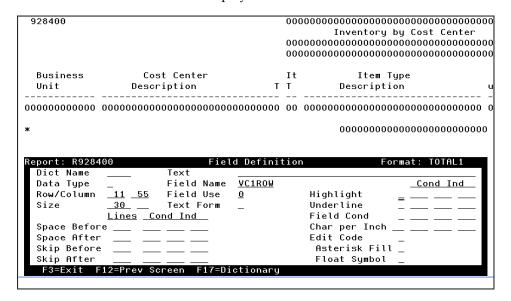
To create a total format

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



- **4.** 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)
- **5.** Press enter to return to Report Design Aid.
- **6.** On Report Design Aid, enter an asterisk (*) in the column and row position to begin the total description.

The Field Definition screen displays.



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

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

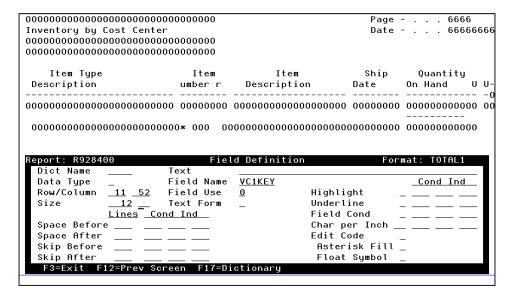
6-10 JD Edwards World

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.



11. Click Enter.

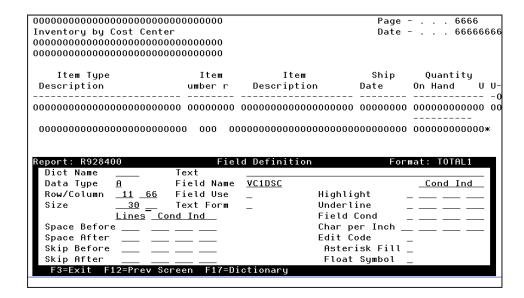
The description for the key value replaces the asterisk (*).

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:



14. Click Enter.

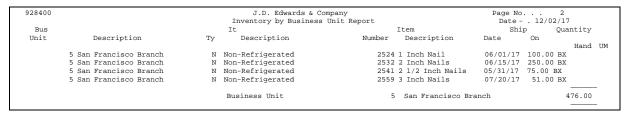
The description for the key value replaces the asterisk (*).

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.



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

6-12 JD Edwards World

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

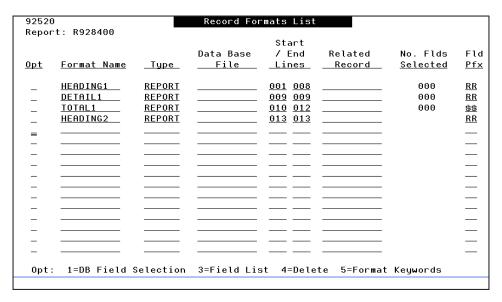
Business Unit 5 San Francisco

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

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



- **5.** 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.

928400		& Company	Page No 2			
		Inventory by Busi	ness Unit Report	Date	12/02/1	7
Bus		It	Item	Ship	Quantity	
Unit	Description	Ty Description	Number Description	Date	On Hand	UM
	5 San Francisco Branch	N Non-Refrigerated	2524 1 Inch Nail	06/01/17	100.00	BX
	5 San Francisco Branch	N Non-Refrigerated	2532 2 Inch Nails	06/15/17	250.00	BX
	5 San Francisco Branch	N Non-Refrigerated	2541 2 1/2 Inch Nails	05/31/17	75.00	BX
	5 San Francisco Branch	N Non-Refrigerated	2559 3 Inch Nails	07/20/17	51.00	BX
		Business Unit	5 San Francisco Bra	nch	476.00	
					476.00	

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.

928400	J.D. Edwards & Company Inventory by Business Unit Report				2		
Business U	nit 5 San Francisco Branch			* **			
Bus		Ιt		Item	Ship	Quantity	
Unit	Description	Ty	Description	Number Description	Date	On Hand UM	
	5 San Francisco Branch	N	Non-Refrigerated	2524 1 Inch Nail	06/01/17	100.00 BX	
	5 San Francisco Branch	N	Non-Refrigerated	2532 2 Inch Nails	06/15/17	250.00 BX	
	5 San Francisco Branch	N	Non-Refrigerated	2541 2 1/2 Inch Nails	05/31/17	75.00 BX	
	5 San Francisco Branch	N	Non-Refrigerated	2559 3 Inch Nails	07/20/17	51.00 BX	
		Bu	siness Unit	5 San Francisco Bran	ich	476.00	
						476.00	

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 *Technical Foundation Guide*.

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 includes on the cover page are in the following example:

	The Organization's Name	
Program ID P928400	Inventory by Business Unit Report	Report Date 12/02/17
Version 002	San Francisco Branch	Report Time 9:35:50
	Additional Line of Text if Required	

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.

928400	J.D. Edwards & Company	Page No 2
	Inventory by Business Unit Report	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.

6-14 JD Edwards World

7 Additional Tools

Overview to Additional Tools

Objectives

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

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

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:

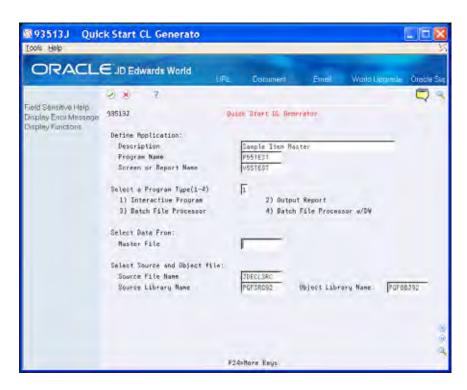
- To create a program using the Quick Start CL Generator
- To compile a CL program



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

To create a program using the Quick Start CL Generator

- 1. 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.



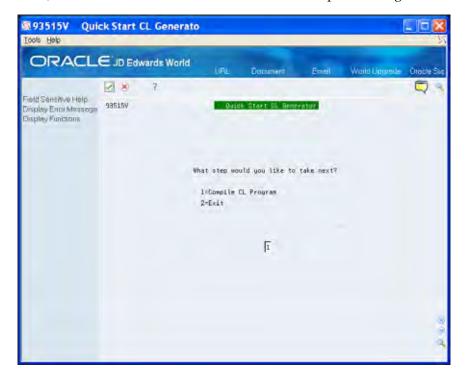
Field	Explanation	
Description	Use this field to enter a short one-line description of the program you are creating.	
Program Name	Type the name of the RPG program that the CL program will call. This is a required field. Do not leave it blank.	
	The name of the CL program generated will be the same as 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.	

7-4 JD Edwards World

Field	Explanation
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.



Work with the Quick Start Application Tool

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.

Ouick Start cannot:

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

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

- 2. 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.
- **3.** Browse or update the screens or report you are creating (optional).
- **4.** Compile screens or the report (optional).
- **5.** 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.
- **6.** Compile the program (optional).
- 7. 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.



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

This chapter includes the following:

- Defining the Application
- Selecting Data Fields
- Browsing or Updating the Screens or Reports (Optional)
- Compiling the Screens or Report (Optional)
- Modifying Specifications (Optional)
- Submitting the Program to Compile (Optional)
- <u>Updating the Data Dictionary and Glossary</u>

Defining the Application

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

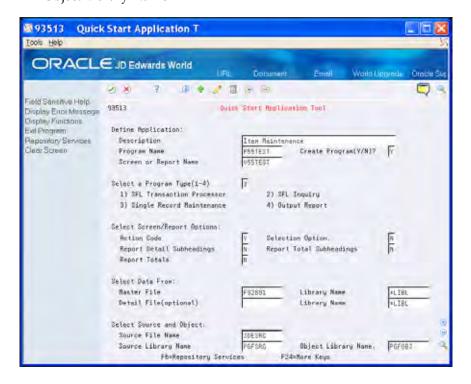
The system enters all of the information on this screen from the previous version you created if you did not sign off the system.

7-8 JD Edwards World

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



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.		
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.		

7-10 JD Edwards World

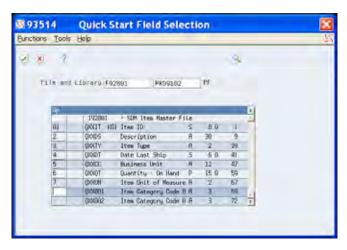
Selecting Data Fields

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.
- **2.** Press (F3) to continue.
- **3.** 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.



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.



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.

7-12 JD Edwards World



Modifying Specifications (Optional)

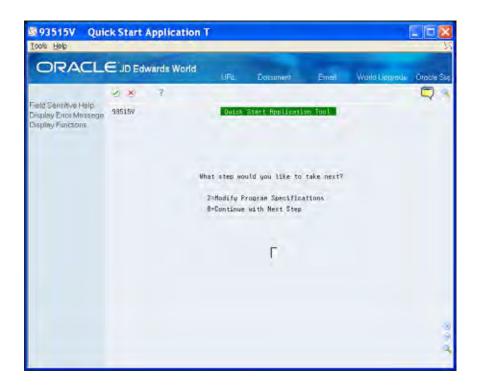
At this point in the process, you can access the Program Generator Specifications screen to modify specifications.

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.



Submitting the Program to Compile (Optional)

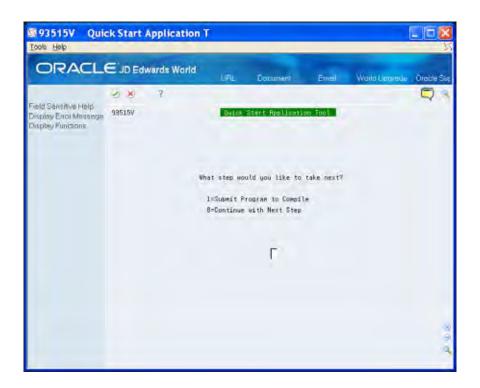
Do not submit the program to compile until the screens or report successfully compile.

To submit the program to compile

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

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

7-14 JD Edwards World

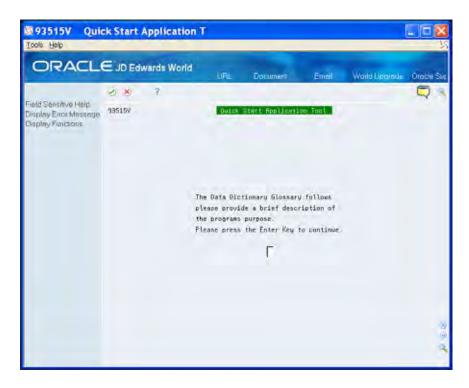


Updating the Data Dictionary and Glossary

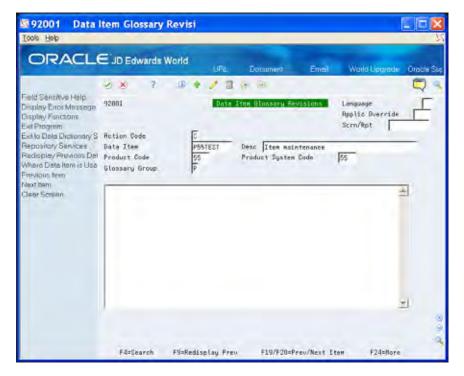
You must enter the purpose of the program on the Data Item Glossary Revisions screen.

To update the data dictionary and glossary

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



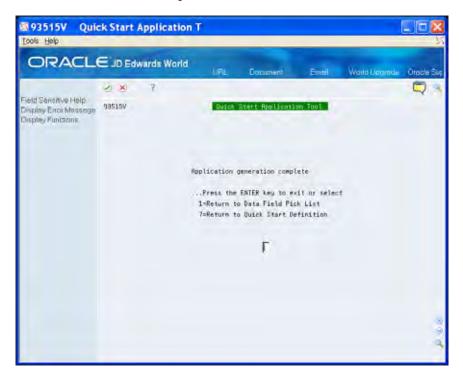
2. On Data Item Glossary Revisions, enter the description of the program's purpose that displays in the online help instructions.



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

7-16 JD Edwards World

- 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



Work with Action Diagramming

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.

This chapter describes the following:

- Building an Action Diagram
- Viewing an Action Diagram
- Accessing the Logic Translation Feature

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.

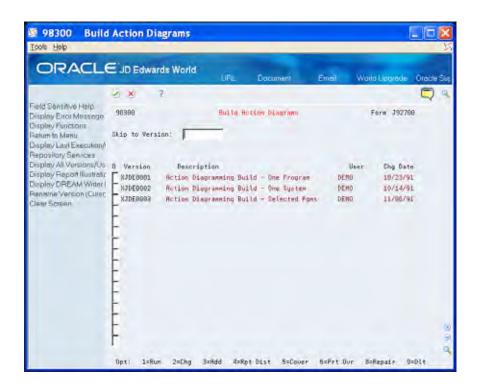
JD Edwards World includes sample Action Diagrams with the software but you must build the Action Diagram for all other programs. This is *not* an automatic function.

To build an action diagram



From Action Diagramming (G9363), choose Build Action Diagrams

On Build Action Diagram, choose a version.



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

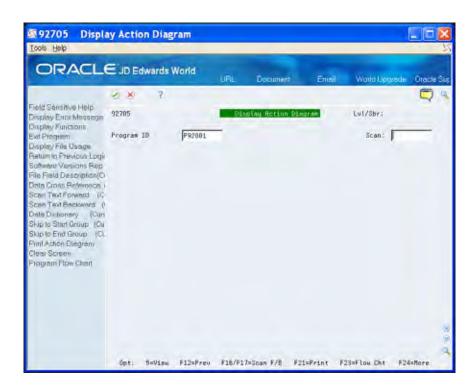


From Action Diagramming (G9363), choose Display Action Diagram

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

For example, enter P92801.

7-20 JD Edwards World



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.

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.

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.

7-22 JD Edwards World

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.
	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.

Option Field Values

View (5)

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

Accessing the Logic Translation Feature

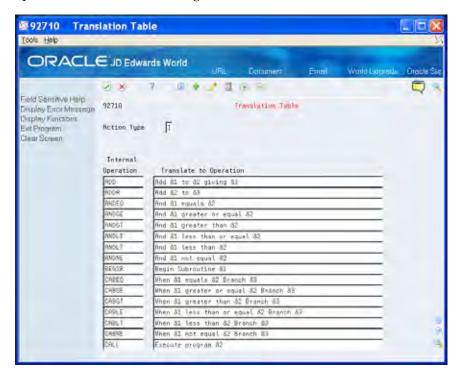
The Logic Translation feature allows you to view how the Action Diagram feature translates the RPG code of a program into an Action Diagram.

To access the logic translation feature



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.



7-24 JD Edwards World

8 Source Code Inventory and Database

Overview to Source Code Inventory and Database

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

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

When you use the program generator, it is important that you understand how the system manages the source code in the program. This includes the following key elements that the system assigns:

- Source Serial Numbers
- Source Sequence Line Structure
- Structure of the Serial Number

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.

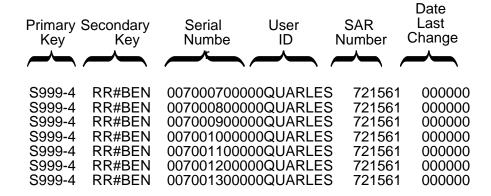
Source Sequence Line Structure

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.

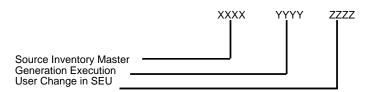
Element	Description
Date Last Change	When the program generator creates a program, it places the date you add or change the code within the source sequence line.

The following illustrates the parts of the source sequence line.



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

Structure of the Serial Number



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.

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.

8-4 JD Edwards World

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

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.

This chapter includes the following tasks:

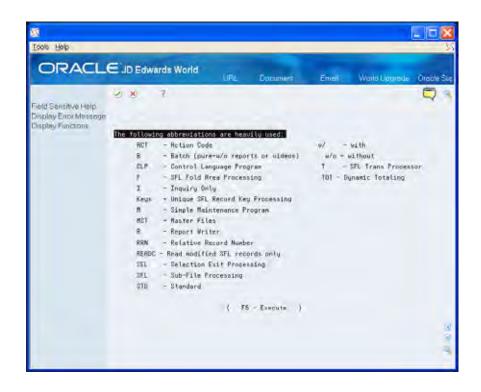
- Reviewing Abbreviations for Program Types
- Reviewing Program Types Index
- Reviewing Program Types Cross Reference
- Creating or Modifying Program Types

Reviewing Abbreviations for Program Types

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



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



Reviewing Program Types Index

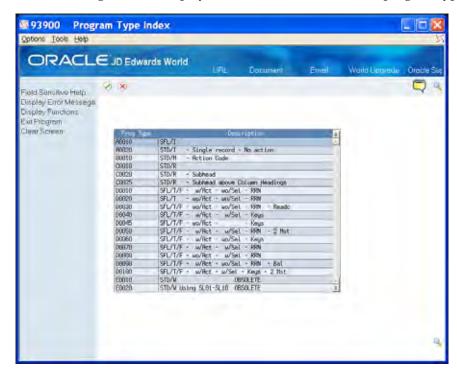
You can use the Program Type Index program (P93900) to locate program types. You can access this from the Program Types Cross Reference screen, Index screen, as well as the Create/Modify screen.

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.

8-8 JD Edwards World



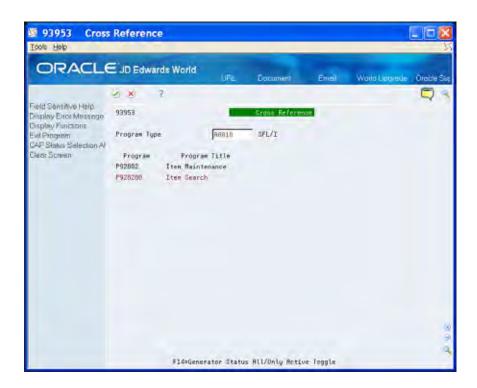
• Revise Logic Class - Displays a bill of materials list for the program type.

Reviewing Program Types Cross Reference

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



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



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.

Creating or Modifying Program Types

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

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.

Primary Module

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

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.

8-10 JD Edwards World

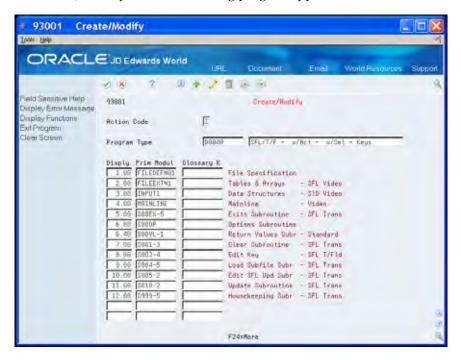
To create or modify program types

Ensure you are of the alpha order requirement when creating new program types. The following is an example using program type D0040.



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

On Create/Modify, locate an existing program type.



Work with Logic Modules

There are two types of logic modules:

- Primary
- Detail

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

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 *Understand Directives* for more information about directives.

Generation Options

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

Help Instructions Edit/Build

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

All Help Instructions

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

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::

- Viewing the Logic Module Index
- Viewing Logic Module Cross Reference
- Viewing Logic Module Op Codes
- Maintaining the Logic Module File
- Creating or Modifying Logic Modules
- Creating or Modifying Formula Library Entry
- Copying or Moving Program Specifications
- Printing Program Generator Specifications
- Reviewing Source Modifications
- Using Program Generator Updates
- Using CASE Specifications Inquiry

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.

8-14 JD Edwards World

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

To view the logic module index



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



Viewing Logic Module Cross Reference

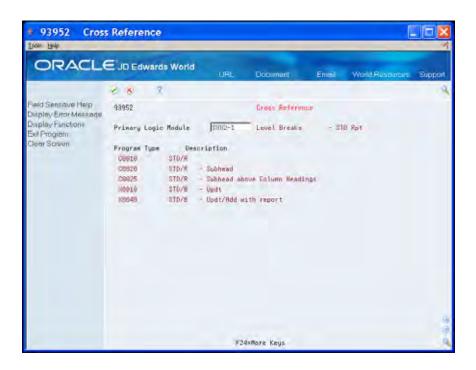
The Logic Module Cross Reference allows you to determine which program types use a particular logic module.

To view the logic module cross reference



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

Enter a primary logic module name.



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.

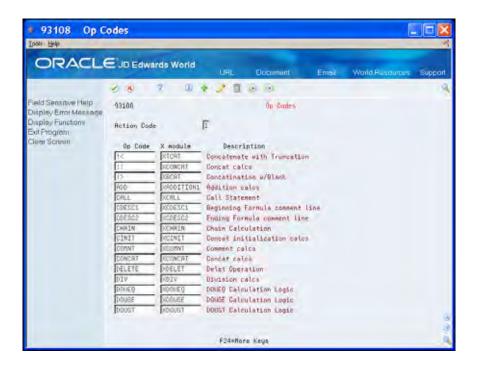
If PDL does not generate source code, the Operation Code to Logic Module X-Ref file (F93108) might have been accidently cleared.

To view the logic module op codes



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

8-16 JD Edwards World



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.

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).

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).

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.

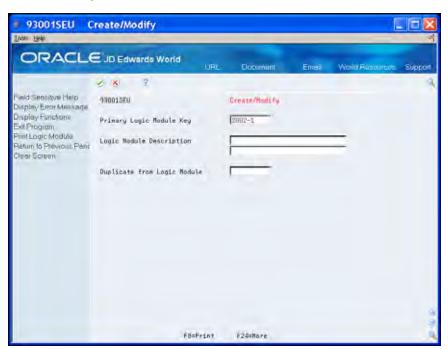
You can exit the code without saving your changes.

To create or modify logic modules



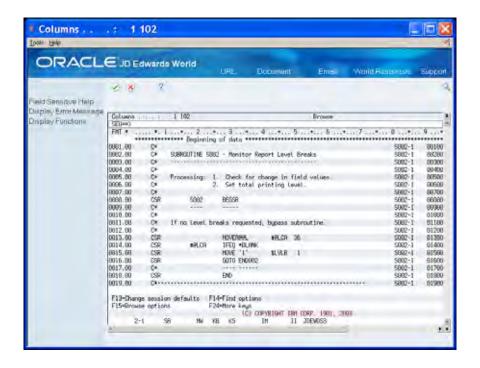
From Model Program Design Menu (G9361), under LOGIC MODULES, choose Create/Modify

1. Enter a logic module name.



2. Create or change the appropriate lines of code

8-18 JD Edwards World



Creating or Modifying Formula Library Entry

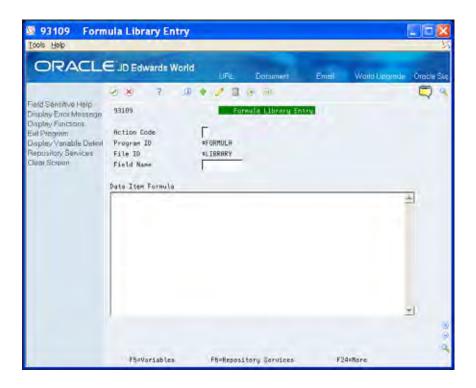
When you choose this menu selection, the system preloads the screen with the keys for entering a formula.

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

To create or modify the formula library entry



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



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

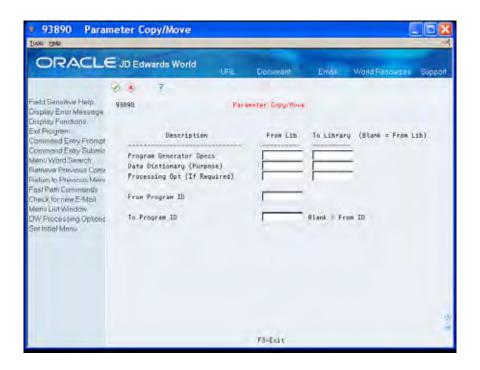


From Model Program Design Menu (G9361), under OTHER TOOLS, choose **Parameter Copy/Move**

On Parameter Copy/Move complete the following fields:

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

8-20 JD Edwards World



Printing Program Generator Specifications

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

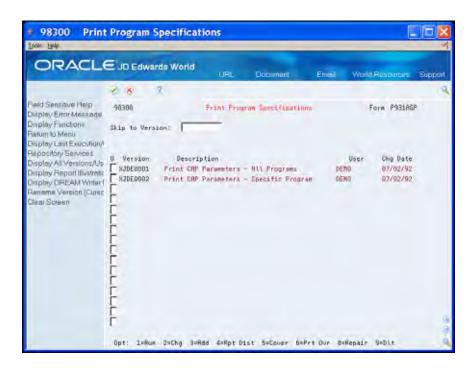
If the print job ends abnormally, review the Additional Parameters screen of the DREAM Writer and ensure that the File Output Type field is set to a Logical File and not Open Query.

To print program generator specifications



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.



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

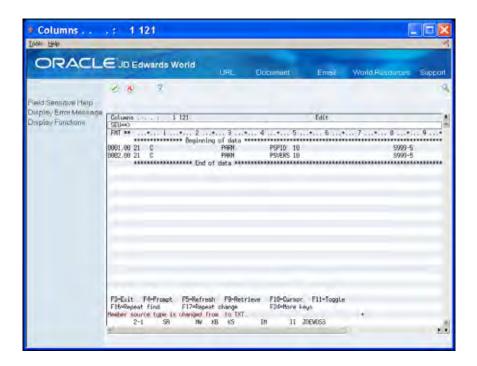


From Model Program Design Menu (G9361), under OTHER TOOLS, choose **Review Source Modifications**

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

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

8-22 JD Edwards World



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



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

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



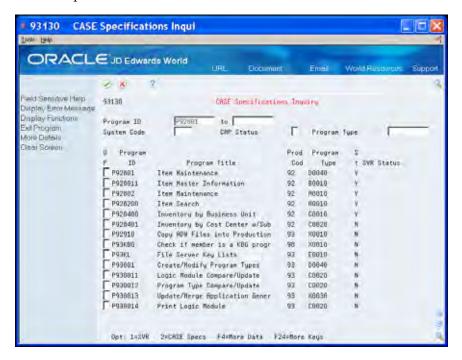
From Model Program Design Menu (G9361), under OTHER TOOLS, choose **Case Specifications Inquiry**

1. 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.

- **2.** Complete the following field:
 - Option



8-24 JD Edwards World

Understand 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.

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
AUTHR	None	F spec	Program author
*AUTOI	X*ENTRYI	S999	Automatic inquiry at execution test logic
*CLRN	None	S001	Clear user requested fields

Directive Code	Detail Logic Module	Source Created	Functional Directive
CLRY	None	S001	Clear all data fields for next transaction
CLSFL	None	S003	Clear all subfile fields
СОРҮ	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
DSP1			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

8-26 JD Edwards World

Directive Code	Detail Logic Module	Source Created	Functional Directive
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
*EMK	XLOADEMK	S999	Load user defined error messages
ENTRY	X*ENTRYP X*ENTRYM	Various	Load program execution passed parameters
*EXITC	XEXIT-CMD0 XEXIT-CMD1	S00EX	Function key exit execution logic
*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	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
FILES	None	F spec	Program file descriptions

Directive Code	Detail Logic Module	Source Created	Functional Directive
*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	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
INFDS			File information data structures, if specified
	XINFDS1	I spec	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
	XFIELDLD1	S003	programs.
	XFIELDLD2	S003	Load video input - Alpha
	XFIELDLD3	S003	Load video input - Numeric
	XFIELDLD4	S003	Load video input - Cost Center
	XFIELDLD5	S003	Load video input - Julian Date
			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

8-28 JD Edwards World

Directive Code	Detail Logic Module	Source Created	Functional Directive
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	Business Unit security logic where xx = master field designation 1 thru 9
		S004	
		S00EX	
*OPEN	XFILEOPN1	S999	Open report program data files
OPTE	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
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

Directive Code	Detail Logic Module	Source Created	Functional Directive
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

8-30 JD Edwards World

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
	XFIELDEDTU	S005	Validation = Master- Numeric

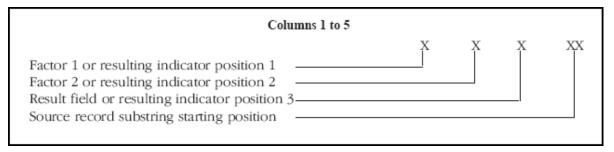
Directive Code	Detail Logic Module	Source Created	Functional Directive
*S00VL	None	I spec	Cursor Control, F1
TITLE	None	H spec	Program title
*VKYxx	None	S999	Load softcoding record key for display files where xx=display file designation 1 - 9.
*VTS	None	I spec	Display file softcoding array
*VTX	None	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.

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.



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

1 2 3 45 @ x x x x Four character Data Dictionary name # x Primary parameter that passes for *ENT	Directive	Colur	nn Allov	ved		Function
·		1	2	3	45	
# Primary parameter that passes for *ENT	@	x	x	x	x	Four character Data Dictionary name
	#	x				Primary parameter that passes for *ENTRY
A x x x Highest VTX field.	A	x	x	x		Highest VTX field.

8-32 JD Edwards World

Directive	Colu	nn Allov	ved		Function
В					Unused at this time.
С	x				Function key exit indicator test
D	х			x	Descriptions for fields, files, and copy modules
E		x			Error message key
F		x			Validation file name
G		x			User defined calculation logic result field name
Н		x			Descriptive display file name
I	x	x	x		Display field error condition attribute indicator
J	x	x	x	x	Data file names
K	x	x	x		Descriptive display file key field name
L	x				Data file key list name and optional file/format name
M	x				File information data structure name
N	x	x	x		Full data field name (write to)
O	x			x	Common subroutine name
Р		x			Function key/selection exit program to execute
Q			x		Field name to receive description value
R			x		Field name to receive key value
S		x			Selection exit value test
T	x				Function key/selection exit
U	x				File information data structure subfield prefix
V	x	x	x		Source of data (Read From) field name
W			x		Data file key list key field name
X			x	x	Error message array index
Y			x		Function key/selection exit parameter field name
Z			x		Numeric field size definition (right adj alpha)

Directive	Colur	nn Allow	/ed	Function
0	х			Gregorian date Data Structure numeric 6 byte date
1	x			Gregorian date Data Structure numeric 2 byte month
2	x			Gregorian date Data Structure numeric 2 byte day
3	x			Gregorian date Data Structure numeric 2 byte year
4	x	x	x	Parameter 1 from *PROC calculations
5	x	x	x	Parameter 2 from *PROC calculations
6	x	х	x	Parameter 3 from *PROC calculations
7	x	x	x	Parameter 4 from *PROC calculations
8	x	x	x	Parameter 5 from *PROC calculations

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
	X		&xxFILE	Master/video/report file name
	x		&xx(FILE)	File name in single quote marks
	x		&xxFORMAT	Master/video format name
	x		&xxFORMAT1	Subfile line 24 format name

8-34 JD Edwards World

Factor 1	Factor 2	Result	Keyword	Function
	x		&xxFORMATC	Subfile control record format name
	x		&xxFORMATS	Subfile record format name
x	x		&xxKEYFLD	Master file primary key field name
x	x		&xxPGCTL	Number of subfile records in 1 page
x			%	Factor 1 intentionally left blank
х	x	x	=	User defined calculation logic result

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:

Position/Factor/Result	Description
Pos 1	+ Include detail logic module if true
	- Include detail logic module if false
Pos 2-5	FLDNTest existence of data field
	DTAI Test existence of data item
	FILE Test existence of file
	FMT Test existence of file
Factor 1	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.
Oper (file test only)	DSPF Display file
	PF Physical file only

Position/Factor/Result	Description		
	LF	Logical file only	
	PRT	F Printer file only	
	DB	Database file	
Factor 2	Name of detail logic module to include into source code. Might also use *AND to produce compound conditions		
Result Field Pos 1	@	Any input file	
	M	Master input file with M in file specifications	
	1-9	Master input file with 1 - 9 in field specifications	
Result Field Pos 2	@	Any output file	
Result Field Pos 3	eld 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	

8-36 JD Edwards World

Work with the Question and Answer System

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.

The question and answer system includes the following:

- Reviewing Questions in a Master Dialogue
- Adding New Q & A Dialogue
- Working with an Existing Dialogue



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

About Simple Question & Answer

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

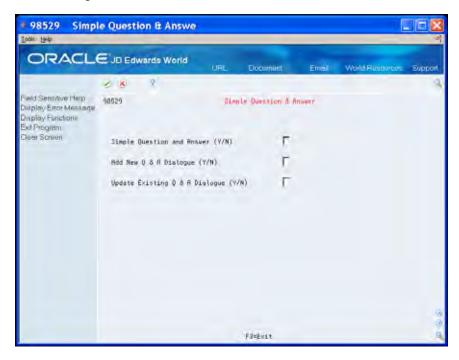
Option	Description
Simple Question and Answer	Access the Question Entry screen.
Add New Q & A Dialogue	Access the Dialogue Descriptions screen.
Update Existing Q & A Dialogue	Access the Dialogue Lists screen.

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.

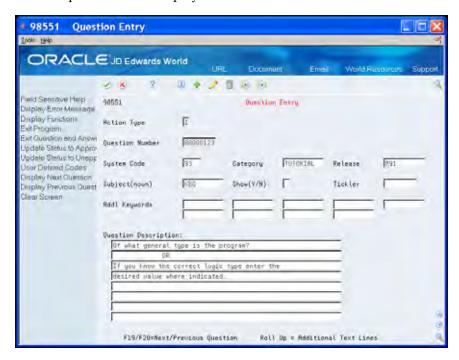
To review questions in a master dialogue

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



- **2.** On Question Entry, complete the following field:
 - Question Number

The question detail displays.



8-38 JD Edwards World

3. To review the answers to the master question Click Change.

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

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

The Dialogue Descriptions screen displays.

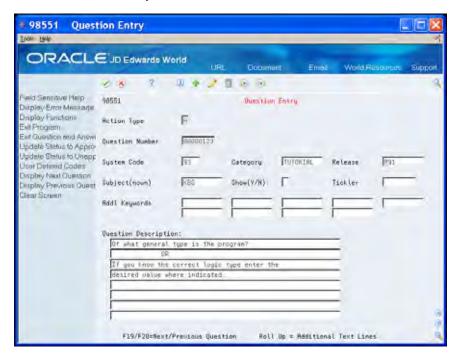
- **2.** Complete the following fields:
 - Dialogue Keys: Primary
 - Dialogue Keys: Secondary
 - Dialogue Type
 - Summary description
 - Beginning Question Number
 - Dialogue description



The first Question Entry screen displays.

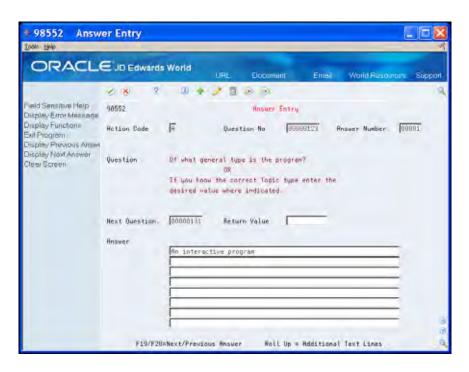
3. Complete the following fields:

- Question Number
- System Code
- Category
- Release
- Subject
- Show
- Tickler
- Question Description
- **4.** Complete the following field to assist in future searches for this question:
 - Additional Keywords



The Answer Entry screen displays.

8-40 JD Edwards World

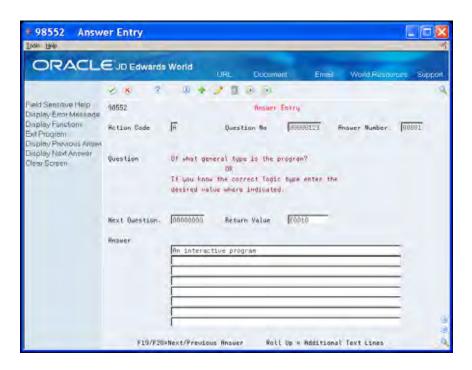


- **5.** Complete the following fields:
 - Question Number
 - Answer Number
 - Next Question
 - Answer
- **6.** Optionally, complete the Return Value field.

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.



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.

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

8-42 JD Edwards World

To run a quiz

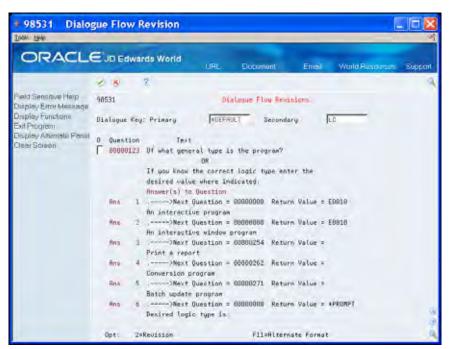
To perform these tasks, choose Update Existing Q & A Dialogue on the Simple Question and Answer screen to access the Dialogue Lists screen.

On Dialogue Lists, you can use the following values in the Option field:

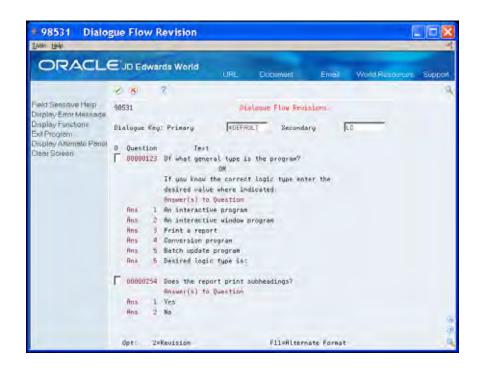
- 2 Change the questions and answers for the Dialogue
- 3 Copy one dialogue to another dialogue
- 5 Run the Q & A. You can specify the number of responses to allow.
- 6 Flow displays the flow of the Q&A and how one question leads to another. You can access Q&A Revisions from the flow.
- 7 Rename
- 9 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.



2. Choose Alternate Format (F11) to view the Alternate Format.



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.

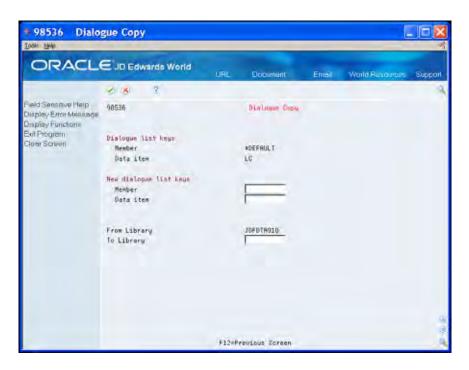
- Click Change.
- **3.** Make the changes to the questions and answers.

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.

8-44 JD Edwards World



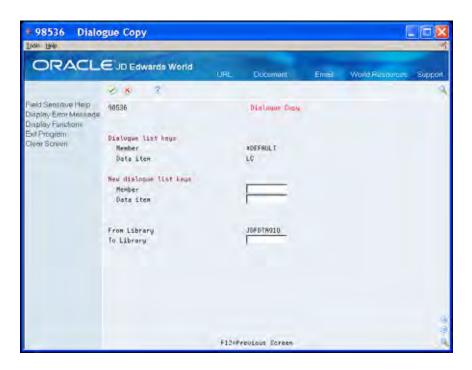
- **2.** Enter the name of the new dialogue list keys (primary key) in the following field:
 - Member
- **3.** Enter the name of the new dialogue list keys (secondary key) in the following field:
 - Data item
- **4.** Enter the name in which the new dialogue resides in the following field:
 - To Library

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.



- **2.** 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

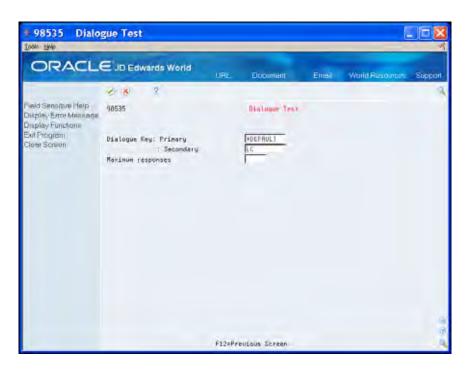
The system renames the dialogue.

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.

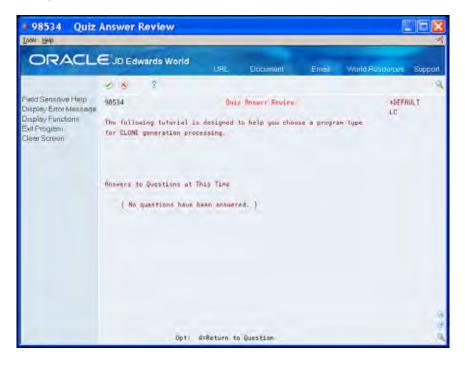
8-46 JD Edwards World



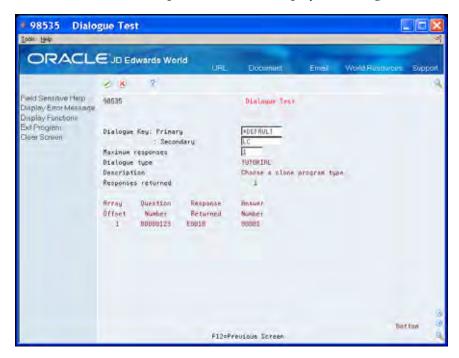
- **2.** Enter a number for the maximum number of times you want to run this dialogue in the following field:
 - Maximum responses

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.

3. Choose Review Selections (F5) when the last question displays, to access the 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).
- **5.** Enter 4 to return to a specific question.
- **6.** Click Exit on the last question screen to display the Dialogue Test 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.

7. 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.

- 1. 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.

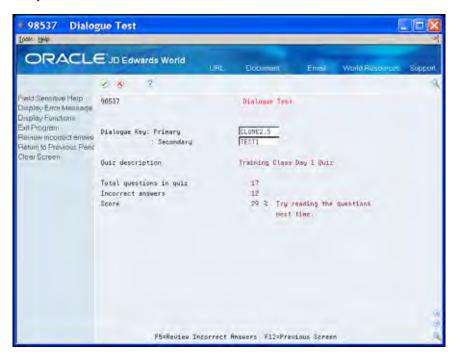
8-48 JD Edwards World

3. 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

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

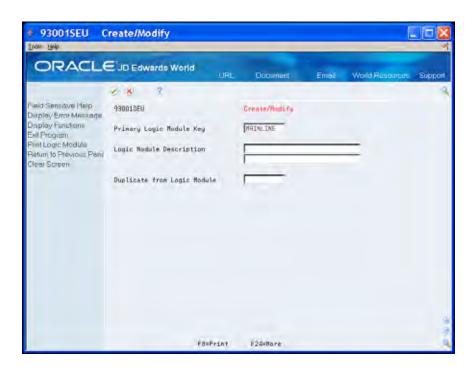
You must be able to locate program types and logic modules. See *Create or Modify Program Types* and *Work with Logic Modules*.

To create user defined PDL



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

1. On Create/Modify (Logic Module), access the Edit screen.



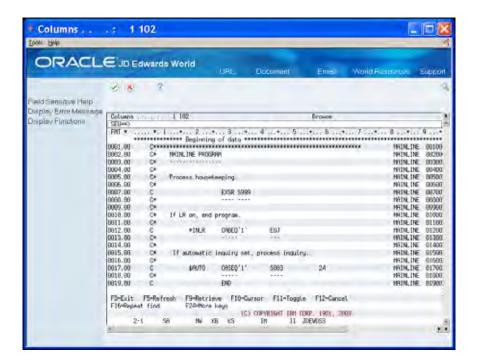
2. On the Edit screen, create the user defined PDL entry points within the affected primary logic modules.

The naming convention for user defined PDL entry points is PDLxx, where xx is a two digit number between 01 and 99.

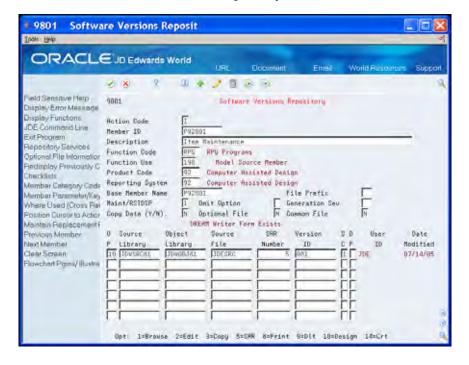
You can either add the PDL directive to an existing line of code that does not contain a directive, or insert a new line and enter the directive on this line. The directive goes in positions 1 to 5 of the source line. If you insert a new line, remember to add the source sequence and serial number in 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.

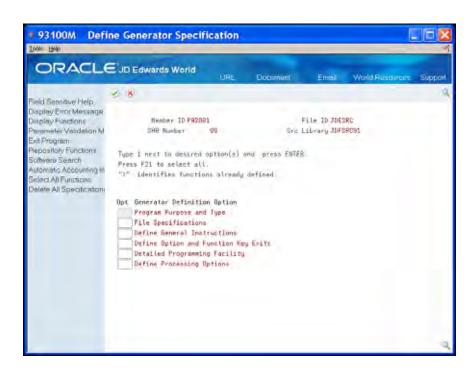
8-52 JD Edwards World



3. Access the Software Versions Repository and locate the member.

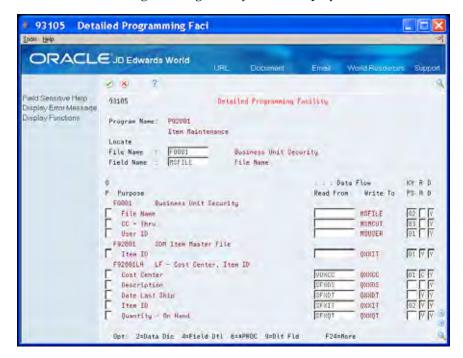


4. Enter 10 (Design) next to the environment in the Option field: The Program Generator Specification screen displays.



5. On Define Generator Specification, enter 1 in the Option field to access the Detailed Programming Facility:

The Detailed Programming Facility screen displays.

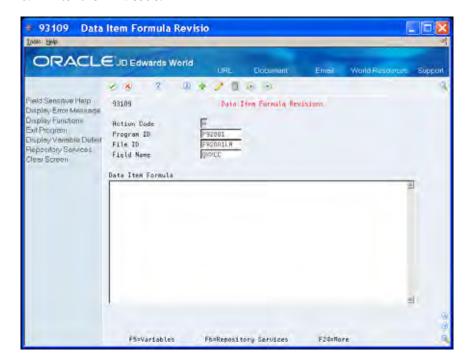


6. Enter the PDL code through the Detailed Programming Facility.

All user defined PDL entry points appear after the form or report file fields in the Detailed Programming Facility.

8-54 JD Edwards World

- **7.** On Detailed Programming Facility, enter 6 in the Option field to access Data Item Formula Revisions.
- **8.** Enter the PDL code.



9 Appendices

Appendix A - Program Generator Checklist

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.

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.

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.

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

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:

9-2 JD Edwards World

- 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.

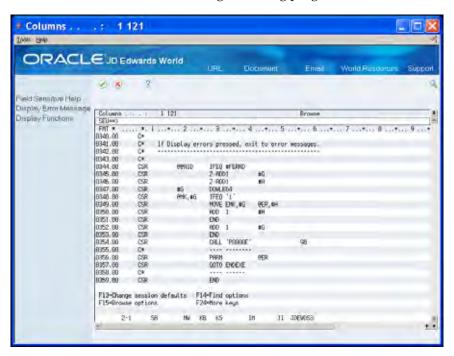
Appendix B - Programming Standards

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.





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).

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)	
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	

9-6 JD Edwards World

INDICATOR	DESCRIPTION
RT	Indicates that a temporary or final halt in the program should take place and returns to the calling program leaving files open

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

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.

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 a file:

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.

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.

9-8 JD Edwards World

Appendix C - CASE Program Types

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.

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.

A0010 — Interactive Subfile Inquiry

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.

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.

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.

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.

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.

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.

Quick Start Generation

You can generate this program type using the Quick Start CL Generator.

A0020 — Interactive Single Record Inquiry

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.

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.

9-10 JD Edwards World

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

B0010 — Interactive Single Record Maintenance

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.

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.

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.

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.

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.

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C0010 — Batch Report with Totals

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.

Printer File Definition

This program type requires that formats HEADING1 and DETAIL1 exist in the printer file. Format TOTAL1 is optional for totals.

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.

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.

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.

9-12 JD Edwards World

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C0020 — Batch Report with Totals and Subheadings

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.

Printer File Definition

This program type requires that formats HEADING1, HEADING2 and DETAIL1 exist in the printer file. Format TOTAL1 is optional for totals.

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.

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.

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.

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

C0025 — Batch Report with Totals and Subheadings

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.

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.

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.

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.

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.

9-14 JD Edwards World

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0010 — Interactive Subfile Maintenance with Action Code, without Options, by Relative Record Number

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.

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.

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0020 — Interactive Subfile Maintenance without Action Code, without Options, by Relative Record Number

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.

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.

9-16 JD Edwards World

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0030 — Interactive Subfile Maintenance without Action Code, without Options, by Relative Record Number with Read Next Modified Record

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.

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.

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.

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.

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

9-18 JD Edwards World

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0040 — Interactive Subfile Maintenance with Action Code, with Options, by Key

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.

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.

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.

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.

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.

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.

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

D0050 — Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Relative Record Number

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.

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.

9-20 JD Edwards World

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.

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0060 - Interactive Subfile Maintenance with Action Code, without Options, by Key

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.

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.

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.

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.

9-22 JD Edwards World

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.

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.

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

D0070 — Interactive Subfile Maintenance with Action Code, with Options, by Relative Record Number

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.

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.

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0080 — Interactive Subfile Maintenance without Action Code, with Options, by Relative Record Number

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.

9-24 JD Edwards World

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.

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0090 — Interactive Subfile Maintenance with Action Code, without Options, by Relative Record Number, Balance

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.

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.

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.

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.

9-26 JD Edwards World

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

D0100 — Interactive Subfile Maintenance with Two Master Files, with Action Code, with Options, by Key

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.

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.

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.

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.

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.

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.

Quick Start Generation

Generate this program type using the Quick Start CL Generator.

E0010 — Interactive Window

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.

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

9-28 JD Edwards World

must also shorten the literal field that follows that key and precedes the window border.

Do not use Action Codes.

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.

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.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

X0010 — Batch Update with Report

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.

Printer File Definition

This program type requires that formats HEADING1 and DETAIL1 exist in the printer file. Format TOTAL1 is optional exist for totals.

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.

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.

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.

9-30 JD Edwards World

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

X0020 — Batch Update

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.

Printer File Definition

You do not use a printer file with this program type.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

X0030 — Batch Update with Subroutine S001

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.

Printer File Definition

You do not use a printer file with this program type.

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.

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.

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 master file.

This program updates the master file records in subroutine S010.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

9-32 JD Edwards World

X0040 - Batch Update with Report

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.

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.

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.

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.

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.

Quick Start Generation

You can not generate this program type using the Quick Start CL Generator.

Y0010 — Conversion, Two Files with Error Report

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.

Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

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.

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.

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 master file.

9-34 JD Edwards World

This program updates the master file records in subroutine S010.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

Y0020 — Conversion, One File Update with Error Report

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.

Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

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.

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.

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.

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

Y0030 — Conversion, One File Write with Error Report

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.

Printer File Definition

This program type requires that formats HEADING1, DETAIL1, and ERROR1 exist in the printer file. Format TOTAL1 is optional for totals.

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.

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.

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.

9-36 JD Edwards World

Quick Start Generation

You cannot generate this program type using the Quick Start CL Generator.

Appendix D - Source Listings

This appendix includes the following sources:

- Program Status Data Structure I00DSPROG
- Copy Module Retrieve Soft Coding I00SC
- Item Master Information P928011

Program Status Data Structure — I00DSPROG

98330		JD Edwards World	
I00DSPROG	.JDFSR	C61 Print Source Code	Date - 27.01.17
Seq No.			
			Mod Date
1.00	T***	*************	00003 08.02.85
2.00	T*		08.02.85
	I*	DDOGDAM GMAMIG DAMA GMDUGMUDE	
3.00	T*	PROGRAM STATUS DATA STRUCTURE	08.02.85
4.00	_		08.02.85
5.00	I*		08.02.85
6.00	I*	Portions of this data structure are loaded at the time the	08.02.85
7.00	I*	program is loaded. Other portions of this data structure	08.02.85
8.00	I*	are loaded as you perform I/O.	08.02.85
9.00	I*		08.02.85
10.00	I*	PURPOSE	08.02.85
11.00	I*		08.02.85
12.00	I*	This common subroutine is set up to be used with C0000	08.02.85
13.00	I*	(Business Unit Security) common subroutine and C0001(Edit	08.02.85
14.00	I*	Action Code) common subroutine. Those two subroutines	08.02.85
15.00	I*	will retrieve ##USER for the user name.	08.02.85
16.00	I*		08.02.85
17.00	I*	No program calcs are done in this subroutine.	08.02.85
18.00	I*		08.02.85
19.00	I##P	SDS SDS	18.12.89
20.00	I*		08.02.85
21.00	I*	Program Name	08.02.85
22.00	I	1 10 ##PROG	08.02.85
23.00	I*	Status Code(09999=I/O Error)	08.02.85
24.00	I	11 150##STAT	08.02.85
25.00	I*	Previous Status code	08.02.85
26.00	I	16 200##PSTA	08.02.85
27.00	ī*	RPG Source Statement Sequence Number	08.02.85
28.00	I	21 28 ##SEQN	08.02.85
29.00	I*	RPG Routine in Which Exception/Error Occured	08.02.85
30.00	I	29 36 ##ROUT	08.02.85
31.00	I*	Number of Parameters Passed to This Program	08.02.85
32.00	I	37 390##PARM	08.02.85
33.00	I*		08.02.85
	I .	Exception Type(MCH=Machine, CPF=CPF)	
34.00		40 42 ##ETYP	08.02.85
35.00	I*	Exception Message Number	08.02.85
36.00	I	43 46 ##ENBR	08.02.85
37.00	I*	Machine Instruction/Object Definition Template Number	08.02.85
38.00	I	47 50 ##MINO	08.02.85
39.00	I*	Work Area for Messages	08.02.85
40.00	Ι	51 80 ##MWRK	08.02.85
41.00	I*	Name of Library in Which Program is Located	08.02.85
42.00	I.	81 90 ##PLIB	08.02.85
43.00	I*	Retrieved Exdeption Data. CPF Messages.	08.02.85
44.00	I	91 170 ##MSG	08.02.85
45.00	I*	Identification of Exception That Caused RPG9001	08.02.85
46.00	I	171 174 ##9001	08.02.85
47.00	I*	Unused	08.02.85
48.00	I	175 200 ##FLR1	08.02.85
49.00	I*	Name of File for Last I/O(Only Updated if Error)	08.02.85
50.00	I	201 208 ##LFIL	08.02.85
51.00	I*	Status Info on Last File Used(Only on Error)	08.02.85
52.00	I	209 243 ##LFST	08.02.85
53.00	I*	Status Code on Last File Used(Only on Error)	15.12.89
54.00	I	209 213 ##LFS5	15.12.89
55.00	I*	Job Name	08.02.85
56.00	I	244 253 ##JOBN	08.02.85

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 ##USER	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(HHMMSS)	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

Copy Module - Retrieve Soft Coding Data Structure — I00SC

98330		JD Edwards World		
I00SC	.JDFSR		Date -	- 27.01.17
Seq No.			Mod Date	
1.00		*************	12.02.88	
	_			
2.00		This is part of a composite common subroutine. In	12.02.88	
3.00		order for the subroutine to work correctly, the	12.02.88	
4.00		RPG program must /COPY in the following members:	12.02.88	
5.00	T*	IOOSC, COOSC	12.02.88	
6.00 7.00	_	NOTE: The "SRVFDS" file information data structure must	25.04.88	
	T. T		25.04.88	
8.00	_	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	_			
12.00	I*	PROGRAM INPUT SPECIFICATIONS AND DATA STRUCTURES	12.02.88	
13.00	I*		12.02.88	
14.00	I*		12.02.88	
15.00	II008	SC DS	07.01.91	
16.00	I*		12.02.88	
17.00		Function keys 1 thru 32.	17.02.88	
18.00	I*		12.02.88	
19.00	I	1 32 IOOSCF	17.02.88	
20.00	I*		25.04.88	
21.00	I*	Function - End of Job	25.04.88	
22.00	I	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 #FCLR	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	
32.00	I*		25.04.88	
33.00	I*	Function - Roll Up	25.04.88	
34.00	I	5 5 #FROLU	17.02.88	
35.00	I*		25.04.88	
36.00	I*	Function - Roll 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*	и	25.04.88	
42.00	_ I*	Function - Window Screen Right	25.04.88	
43.00	I	8 8 #FWRGT	17.02.88	
44.00	ī*		25.04.88	
45.00	_ I*	Function - Question Mark/Cursor Sensitive Help	25.04.88	
46.00	Ī	9 9 #FOMRK	17.02.88	
47.00	ī*	x	25.04.88	
48.00	ī*	Function - Display Error Message(s)	25.04.88	
49.00	ī	10 10 #FERRD	17.02.88	
50.00	T *	10 10 πιΔιάζο	25.04.88	
51.00	I*	Function - Exit to Address Book	25.04.88	
52.00	I	11 11 #FAB	17.02.88	
		TT TT #LVD	11.02.00	

9-40 JD Edwards World

F4 00	T+	Donation Built to Name County		25 04 00
54.00 55.00	I* I	Function - Exit to Name Search	12 #FNS	25.04.88 17.02.88
56.00	I*	12	12 #110	25.04.88
98330		JD Edwards W		
I00SC	.JDFSR	C61 Print Sour	rce Code	Date - 27.01.17
Seq No.				Mod Date
	I*	Function - Return to Previous Panel/M		25.04.88
58.00	I I*	13	13 #FPRV	17.02.88
59.00 60.00	I*	Function - Display Alternate Panel		25.04.88 25.04.88
61.00	Ī		14 #FALT	17.02.88
62.00	I*			25.04.88
63.00	I*	Function - Exit to Display Valid Func		19.09.89
64.00	I	15	15 #FKEYS	19.09.89
65.00 66.00	I* I*	Function - Return to Primary Menu		25.04.88 25.04.88
67.00	ī		16 #FMM	17.02.88
68.00	I*			25.04.88
69.00		Function - Hard Copy Print		25.04.88
70.00	I I*	17	17 #FPRT	21.04.88
71.00 72.00	I*	Function - Variable by Program (1 thr	ni 15)	25.04.88 25.04.88
73.00	ī		18 #F01	21.04.88
74.00	I		19 #F02	21.04.88
75.00	I		20 #F03	21.04.88
76.00	I		21 #F04	21.04.88
77.00 78.00	I		22 #F05 23 #F06	21.04.88 21.04.88
79.00	I		24 #F07	21.04.88
80.00	I		25 #F08	21.04.88
81.00	I	26	26 #F09	21.04.88
82.00	I		27 #F10	21.04.88
83.00 84.00	I		28 #F11 29 #F12	21.04.88 21.04.88
85.00	I		30 #F13	21.04.88
86.00	I		31 #F14	21.04.88
87.00	I	32	32 #F15	21.04.88
88.00	I*			17.02.88
89.00 90.00	I* I*	Selections 1 thru 24.		17.02.88 17.02.88
91.00	I.	33	80 I00SCS	17.02.88
92.00	I*			25.04.88
93.00	I*	Selection - Select/Work With		25.04.88
94.00	I	33	340#SSELC	07.06.88
95.00	I*	Galastian Chance (Davis		25.04.88
96.00 97.00	I* I	Selection - Change/Revise	360#SCHNG	25.04.88 07.06.88
98.00	ī*	33	300#BCING	25.04.88
99.00	I*	Selection - Copy/Hold		25.04.88
100.00	I	37	380#SCOPY	07.06.88
101.00	I* I*	Galastian Balata (Ganas)		25.04.88
102.00 103.00	I n	Selection - Delete/Cancel	400#SDELT	25.04.88 07.06.88
104.00	I*	3,5	100 02221	25.04.88
105.00	I*	Selection - Display/View		25.04.88
106.00	I	41	420#SDSPL	07.06.88
107.00	I*	Cologtion Drint/Rologgo		25.04.88
108.00 109.00	I* I	Selection - Print/Release 43	440#SPRNT	25.04.88 07.06.88
110.00	ī*	43	× 11 mm =	25.04.88
111.00	I*	Selection - Rename		25.04.88
112.00	I		460#SRENM	07.06.88
98330 I00SC	TDEGE	JD Edwards W		Date - 27.01.17
Seq No.	.JDFSR	261 Print Sour	coue	Duce - 21.01.11
				Mod Date
112.00				25.04.00
113.00 114.00	I* I*	Selection - Display Attributes		25.04.88 25.04.88
114.00	I T		480#SDATR	25.04.88 07.06.88
116.00	ī*	17		25.04.88
117.00	I*	Selection - Variable by Program (1 th		25.04.88
118.00	I		500#\$01	07.06.88
119.00 120.00	I		520#S02 540#S03	07.06.88 07.06.88
120.00	I		540#S03 560#S04	07.06.88
122.00	Ī		580#S05	07.06.88
123.00	I	59	600#S06	07.06.88
124.00	I		620#\$07	07.06.88
125.00	I		640#S08 660#S09	07.06.88
126.00 127.00	I		680#S10	07.06.88 07.06.88
128.00	I		700#S11	07.06.88
129.00	I	71	720#S12	07.06.88
130.00	I		740#\$13	07.06.88
131.00	I		760#S14	07.06.88
132.00 133.00	I		780#S15 800#S16	07.06.88 07.06.88
134.00	I*	79	000π0±0	22.02.88
135.00	I*	Global JD Edwards World Variables		07.01.91
136.00	I*			22.02.88
		81	120 I00SCG	07.01.91
137.00 138.00	I I*	Future use space, room to grow		25.02.91

139.00			07.01.91
140.00	I*		07.01.91
141.00		Information Data Structure for Panel/Report file.	07.01.91
142.00	I*		07.01.91
143.00	ISRVFDS	DS	22.02.88
144.00	I*	Tul	22.02.88
145.00	I*	Internal program file name	22.02.88
146.00	I	1 8 @@IFIL	22.02.88
147.00 148.00	I* I*	Open indication (1=OPEN)	22.02.88 22.02.88
149.00	I	9 9 @@OPEN	22.02.88
150.00	I*	2 2 @@OEEN	22.02.88
151.00	ī*	End Of File indication (1=End of file)	22.02.88
152.00	Ī	10 10 @@EOF	22.02.88
153.00	_ I*		22.02.88
154.00	I*	Status code (09999=I/O Error)	22.02.88
155.00	I	11 150@@STAT	22.02.88
156.00	I*		22.02.88
157.00	I*	Operation code	22.02.88
158.00	I	16 21 @@OPCD	22.02.88
159.00	I*		22.02.88
160.00	I*	Name of RPG routine exception/error occured	22.02.88
161.00	I	22 29 @@ROUT	22.02.88
162.00	I*		22.02.88
163.00	I*	RPG source statement sequence number	22.02.88
164.00	I	30 37 @@SEQN	22.02.88
165.00	I* I*	User-Specified reason for error on *SPECIAL file	22.02.88
166.00 167.00	I*	User-Specified reason for error on *SPECIAL file 38 420@@RESN	22.02.88 22.02.88
167.00	I*	NG4XBMO7± OC	22.02.88
98330	-	JD Edwards World	22.02.00
I00SC	.JDFSRC61	Print Source Code	Date - 27.01.17
Seq No.	.ODIDACOI	IIIIC BOUICE COUE	Date 27.01.17
Dog No.			Mod Date
169.00	I*	Recore format being processed (External file)	22.02.88
170.00	I*	Record ID (Left justified for internal file)	22.02.88
171.00	I	38 45 @@FRMT	22.02.88
172.00	I*		22.02.88
173.00	I*	Machine OR CPF message number	22.02.88
174.00	I	46 52 @@EXNO	22.02.88
175.00	I*		22.02.88
176.00	I*	Machine instruction/Object definition template number	22.02.88
177.00	I	53 56 @@MI	22.02.88
178.00	I*		22.02.88
179.00	I*	UNUSED	22.02.88
180.00	I	57 80 @@FLR1	22.02.88
181.00	I*	0 1 12 (20 2- 1 22 22 22 22 22 22 22 22 22 22 22 22 2	22.02.88
182.00 183.00	I*	Open data path type (DS-Device DB-Data Base SP-Spool) 81 82 @@ODP	22.02.88 22.02.88
184.00	I*	01 02 WWODP	22.02.88
185.00	I*	Name of file actually opened	22.02.88
186.00	I	83 92 @@FILE	22.02.88
187.00	ī*	03 72 661111	22.02.88
188.00	_ I*	Name of library containing file (Blank if spool file)	22.02.88
189.00	I	93 102 @@LIBR	22.02.88
190.00	I*		22.02.88
191.00	I*	Name of spooled file (set only on spool files)	22.02.88
192.00	I	103 112 @@SPNM	22.02.88
193.00	I*		22.02.88
194.00	I*	Name of library where spooled file is located	22.02.88
195.00	I	113 122 @@SPLB	22.02.88
196.00	I*		22.02.88
197.00	I*	Spooled file number (set only on spool files)	22.02.88
198.00	I	B 123 1240@@SPNO	22.02.88
199.00	I*	Delining and James Ones of the State of the	22.02.88
200.00	I*	Primary record length (bytes transferred at a time)	22.02.88
201.00 202.00	I I*	B 125 1260@@PRCL	22.02.88 22.02.88
203.00	I*	Secondary record length (bytes transferred at a time)	22.02.88
204.00	I	B 127 1280@@SRCL	22.02.88
205.00	I*	D 12/ 1200@@GRCH	22.02.88
206.00	I*	Member Name:	22.02.88
207.00	ī*	. If ODP type is DB, this entry is the	22.02.88
208.00	I*	member name in file named in position	22.02.88
209.00	I*	83 through 92.	22.02.88
210.00	I*	. If ODP type is SP, this entry is the	22.02.88
211.00	I*	member name in the file named in	22.02.88
212.00	I*	positions 103 through 112.	22.02.88
213.00	I*		22.02.88
214.00	I	129 138 @@MBR	22.02.88
215.00	I*		22.02.88
216.00	I*	Input buffer length (zero if no buffer allocated)	22.02.88
217.00	I	B 139 1420@@IBLN	22.02.88
218.00	I*	Output Buffer 1	22.02.88
219.00	I*	Output buffer length (zero if no buffer allocated)	22.02.88
220.00	I T*	B 143 1460@@OBLN	22.02.88
221.00	I*	Device Class (supplied only if ODD time in DC on CD)	22.02.88
222.00	I* I*	Device Class (supplied only if ODP type is DS or SP)	22.02.88
223.00 224.00	1*	1 = Display 2 = Printer	22.02.88 22.02.88
	-	JD Edwards World	22.02.00
98330			D. I. O. O. O. 15
98330 I00SC	.JDFSRC61	Print Source Code	Date - 2/.UI.I/
I00SC	.JDFSRC61	Print Source Code	Date - 27.01.17
	.JDFSRC61	Frint Source Code	Mod Date

9-42 JD Edwards World

```
225 00
                                        3 = Card
                                                                                                                                   22 02 88
                               4 = Diskette
5 = Tape
   226.00
                                                                                                                                   22.02.88
   227.00
                  I*
                                                                                                                                   22.02.88
                                                                        B 147 1480@@DVCL
   228.00
                                                                                                                                   22.02.88
                        Diskette location(value from 1 to 23 = slot location)

149 151 @@DKLC

Number of rows on display screen or lines on a page

B 152 1530@@VDRW

Number of columns on display screen or printed line

B 154 1550@WDCM

Number of records in file at time of open

B 156 1590@@RCNT

Access type (only supplied if ODP type is DB)

KU = Keyed, Unique

KF = Keyed, FIFO W/Duplicate keys

KI = Keyed, LIFO W/Duplicate keys

AR = Arrival sequence

160 161 @@ACTY
   229.00
                  I*
I
I*
I*
                                 Diskette location(value from 1 to 23 = slot location) 149 151 @@DKLC
   230.00
                                                                                                                                   22.02.88
   231.00
                                                                                                                                   22.02.88
   232.00
                                                                                                                                   22.02.88
   233.00
                                                                                                                                   22.02.88
   234.00
                                                                                                                                   22.02.88
   235.00
                                                                                                                                   22.02.88
   236.00
                                                                                                                     22.02.60
22.02.88
22.02.88
   237.00
   238.00
                                                                                                                                  22.02.88
                  I*
I
I*
I*
   239.00
                                                                                                                                   22.02.88
   240.00
                                                                                                                                  22.02.88
   241.00
                                                                                                                                  22.02.88
   242.00
                                                                                                                                   22.02.88
   244.00
                                                                                                                                  22.02.88
   245.00
                  I*
I*
   246.00
                                                                                                                                  22.02.88
                 I
I*
I*
I
                         160 161 @@ACTY 22.02.88
22.02.88
Duplicate key indication (D=Allowed U=Not allowed) 22.02.88
162 162 @@DUPK 22.02.88
   247.00
   248.00
   249.00
                                                                            162 162 @@DUPK
   250.00
   251.00
                                                                                                                                  22.02.88
   252.00
                                Source file indication (Y=Source file)
                                                                                                                                   22.02.88
   253.00
                                                                            163 163 @@SRCI
                                                                                                                                   22 02 88
   254.00
                                                                                                                                   22.02.88
                                 User file control block parameters in effect
   255.00
   256.00
                  I
                                                                            164 173 @@FCBP
                                                                                                                                  22.02.88
                 I*
   258 00
                                  User file control block overrides in effect
                                                                                                                                  22 02 88
   259.00
                                                                            174 183 @@FCBO
                                                                                                                                  22.02.88
                         Offset to volume label fields of open feedback (Supplied only for tape or diskette)
B 184 1850@@OVLF

Number of records to be transferred on file open
B 186 1870@@RTFO

Overflow line number (printer files only)
B 188 1890@@OFLN
   260.00
                                                                                                                                   22.02.88
                  ī*
                                                                                                                                  22.02.88
   261.00
   262.00
                 I*
   263.00
                                                                                                                                   22.02.88
   264.00
                                                                                                                                  22.02.88
                 I*
I*
I*
I*
   265.00
                                                                                                                                 22.02.88
   266.00
                                                                                                                                   22.02.88
   267.00
                                                                                                                                   22.02.88
   268.00
                                                                                                                                   22.02.88
   269.00
                                                                                                                                   22.02.88
   270 00
                                                                                                                                  22 02 88
   271.00
   272.00
                                                                           190 240 @@FLR2
                                                                                                                                  22.02.88
   273.00
                                                                                                                                  22.02.88
                         Offset to device dependent feedback information
(See Appendix D of the CPF Programmer's Guide for layout of feedback information for specific devices)
   274.00
                  I*
I*
                                                                                                                                   22 02 88
   275.00
                                                                                                                                 22.02.88
                  I*
I*
   276.00
   277.00
                                                                                                                                   22.02.88
   278.00
                                                                         B 241 2420@@ODFB
  279.00
280.00
                                                                                                                                   22.02.88
                          Put operation count
                                                                                                                                   22.02.88
 98330
                                                               JD Edwards World
 T00SC
               .JDFSRC61
                                                                   Print Source Code
                                                                                                                                      Date - 27.01.17
Seq No.
                                                                                                                                   Mod Date
                                                                         B 243 2460@@PUTC
                                                                                                                                   22.02.88
  281.00
   282.00
                                                                                                                                   22.02.88
                                 Get operation count
                                                                         B 247 2500@@GETC
   284.00
                                                                                                                                   22.02.88
                 I*
I*
   285.00
                                 PutGet operation count
   286 00
                                                                                                                                   22 02 88
                                                                        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 W/Subfile record number
X'03' = Get by key
X'05' = Put
X'06' = PutGet
X'07' = Update
X'08' = Delete
X'09' = Force End of Data
X'0D' = Release

259 260 @@COPR
   288.00
                                                                                                                                   22.02.88
                 I*
   289.00
                                                                                                                                   22.02.88
   290.00
   291.00
                                                                                                                                   22.02.88
                  I*
I*
I*
I*
I*
   293.00
                                                                                                                                   22.02.88
                                                                                                                                   22.02.88
   294.00
  295.00
296.00
                                                                                                                                   22.02.88
                                                                                                                                   22.02.88
   297.00
                  I*
I*
   298.00
                                                                                                                                   22.02.88
                  I*
I*
   300 00
                                                                                                                                   22 02 88
   301.00
                                                                                                                                   22.02.88
                         259 260 @@CO!

Name of record format just processed:
. Specified on the I/O request, or
. Determined by default processing
   302.00
                                                                                                                                   22.02.88
   303.00
                                                                                                                                   22.02.88
                  I*
I*
   304.00
   305.00
                                                                                                                                   22.02.88
   306.00
                  I*
                                                                                                                                   22.02.88
   307.00
                  I
I*
I*
I*
I*
                                                                            261 270 @@CFMT
                                                                                                                                   22.02.88
   308.00
                                                                                                                                   22.02.88
                         Device Class
Position 2
X'00' = Da
   309.00
                                                                                                                                   22.02.88
                                  Position 271
   310.00
                                                                                                                                   22.02.88
                                        X'00' = Data Base
X'01' = Keyboard display
   312.00
                                                                                                                                   22.02.88
                                         X'02' = Printer
   313.00
                                                                                                                                    22.02.88
```

314.00	I*	X'03' = Card	22.02.88
315.00	_ I*	X'04' = Diskette	22.02.88
316.00	I*	X'05' = Tape	22.02.88
317.00	ī*	Position 272 (If position 271 contains X'00')	22.02.88
318.00	I*	X'00' = Nonkeyed file	22.02.88
319.00	I*	X'01' = Keyed file	22.02.88
320.00	I*	Position 272 (If position 271 not X'00')	22.02.88
321.00	I*	X'00' = 5250 Display station, 960 characters	22.02.88
322.00	I*	X'01' = System console, 1024 characters	22.02.88
323.00	I*	X'02' = 5256 Printer	22.02.88
324.00	I*	X'03' = 5211/3262 Printer	22.02.88
325.00	I*	X'04' = MFCU	22.02.88
326.00	I*	X'05' = 3411/3410 Tape	22.02.88
327.00	I*	X'06' = 72M Diskette	22.02.88
328.00	I*	X'07' = 5250 Display station, 1920 characters	22.02.88
329.00	I*	X'08' = Spooled	22.02.88
330.00	I	271 272 @@DCLS	22.02.88
331.00	I*		22.02.88
332.00	I*	Device name (Last completed operation)	22.02.88
333.00	Ŧ	273 282 @@DNAM	22.02.88
334.00	I*		22.02.88
335.00	I*	Length of last I/O record processed	22.02.88
336.00	I	B 283 2860@@LIOL	22.02.88
98330		JD Edwards World	
I00SC	.JDFSRC61	Print Source Code	Date - 27.01.17
Seq No.			
			Mod Date
<u> </u>			
337.00	I*		22.02.88
338.00	I*	Routing data information	22.02.88
339.00	I	287 366 @@RDTA	22.02.88
		ATUNE OUC 102	
340.00	I*	a contrator of the contrator	22.02.88
341.00	I*	Current line number within a printer page	22.02.88
342.00	I	B 367 3680@@CLNO	22.02.88
343.00	I*		22.02.88
344.00	I*	AID character indication:	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'F4' = Roll down	22.02.88
348.00	I*	X'F6' = Print	22.02.88
		X'F8' = Home	22.02.88
349.00	I*		
350.00	I*	X'BD' = Clear	22.02.88
351.00	I*	X'F3' = Help	22.02.88
352.00	I*	X'3F' = Auto Enter	22.02.88
353.00	I*	X'31' = Command Key 01	09.08.91
354.00	I*	X'32' = Command Key 02	22.02.88
355.00	I*	X'33' = Command Key 03	22.02.88
356.00	I*	X'34' = Command Key 04	22.02.88
	I*		22.02.88
357.00		X'35' = Command Key 05	
358.00	I*	X'36' = Command Key 06	22.02.88
359.00	I*	X'37' = Command Key 07	22.02.88
360.00	I*	X'38' = Command Key 08	22.02.88
361.00	I*	X'39' = Command Key 09	22.02.88
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	I*	X'B1' = Command Key 13	22.02.88
366.00	I*	X'B2' = Command Key 14	22.02.88
367.00	I*	X'B3' = 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	I*	X'B6' = Command Key 18	22.02.88
371.00	I*	X'B7' = Command Key 19	22.02.88
372.00	I*	X'B8' = Command Key 20	22.02.88
373.00	I*	X'B9' = Command Key 21	22.02.88
374.00	ī*	X'BA' = Command Key 22	22.02.88
375.00	I*	X'BB' = Command Key 23	22.02.88
	I*	X'BC' = Command Key 24	22.02.88
376.00			
377.00	I T*	369 369 @@AID	22.02.88
378.00	I*		22.02.88
379.00	I*	Cursor line in hex (display files only)	22.02.88
380.00	I	370 370 @@CURL	22.02.88
381.00	I*		22.02.88
382.00	I*	Cursor position in hex (display files only)	22.02.88
383.00	I	371 371 @@CURP	22.02.88
384.00	_ I*		22.02.88
385.00	I*	Note: By simply defining a 2 byte binary field	22.02.88
	I*	and moving the cursor line/position field	22.02.88
386.00			
387.00	I*	into it right justified you will have the	22.02.88
388.00	I*	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	
100SC	.JDFSRC61	Print Source Code	Date - 27.01.17
	.0DT9KC0I	Filme Source code	Date - 21.01.11
Seq No.			M-d D-L-
l			Mod Date
1			
393.00	I	B 371 3720@@RTRM	22.02.88
394.00	I*		22.02.88
371.00	I*	UNUSED	22.02.88
395.00			
	I	373 375 @@FLR4	22.02.88
395.00 396.00		373 375 @@FLR4	
395.00	I *	373 375 @@FLR4 RRN of last subfile record written/updated	22.02.88 22.02.88 22.02.88

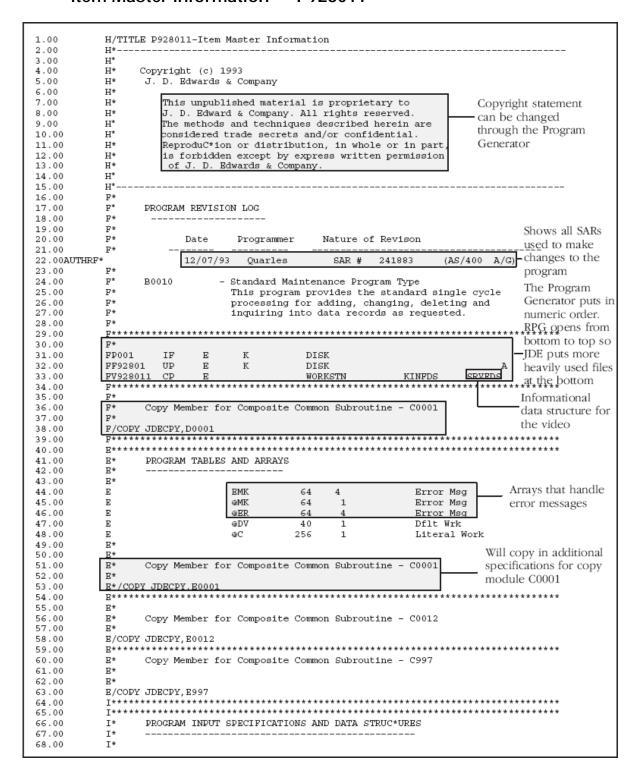
9-44 JD Edwards World

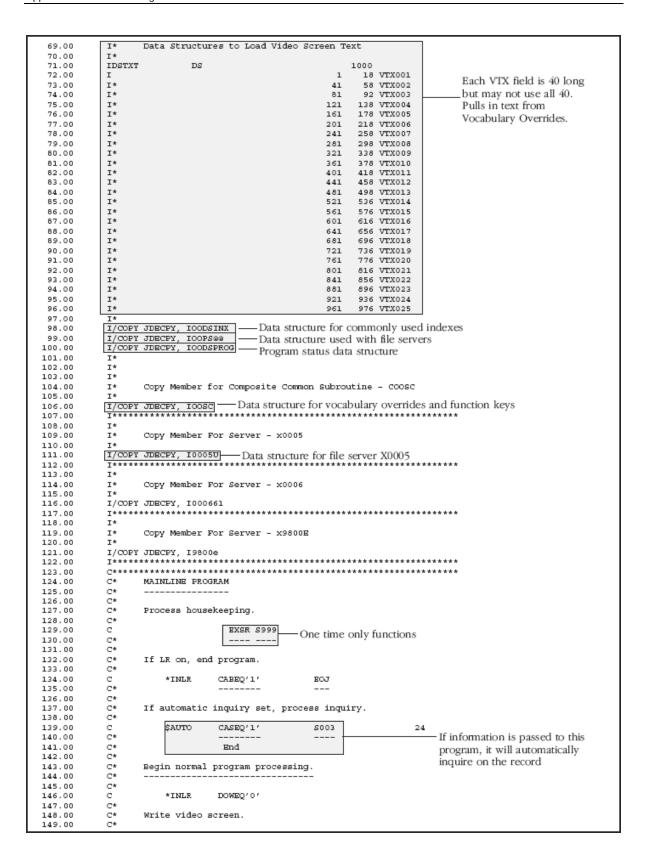
399.00	I	B 376 3770@@SRRN	22.02.88
400.00	ī*		22.02.88
401.00	ī*	RRN of first subfile record on display	22.02.88
402.00	I	B 378 3790@@SRCN	22.02.88
403.00	ī*		22.02.88
404.00	ī*	UNUSED	22.02.88
	I	380 396 @@FLR5	02.10.89
	I*	300 390 @@FER3	22.02.88
407.00	I*	PPN of data base regord	22.02.88
408.00	I	RRN of data base record B 397 4000@@RRN	22.02.88
	I*	B 397 4000@MMN	22.02.88
	I*	Data haga file kar	
		Data base file key	22.02.88
411.00	I I*	401 528 @@RKEY	22.02.88
			22.02.88
413.00		0 0 1 1 77.1	30.08.89
		Cursor Sensitive Help Values	30.08.89
415.00	I*		30.08.89
	IIOOCS	R DS	30.08.89
	I*		30.08.89
		Returned field name.	30.08.89
419.00	I	1 10 ##FLDN	30.08.89
		Returned value.	30.08.89
	I	11 40 ##RVAL	29.09.89
		Returned description.	30.08.89
423.00	I	41 70 ##RDSC	29.09.89
		Returned location: Row.	31.08.89
425.00	I	71 730##RROW	29.09.89
		Returned location: Column.	31.08.89
	I	74 760##RCOL	29.09.89
		Dictionary Field Name (non-blank=override)	03.11.89
429.00	I	77 86 ##DTAI	29.09.89
430.00	I*	Returned Display File Format	29.09.89
431.00	I	87 96 ##RFMT	29.09.89
		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
	I	196 199 ###SYR	06.10.92
436.00			30.08.89
437.00	I*		27.11.89
		Hidden Fields for Subfile Attribute Indicators	27.11.89
	I*		27.11.89
	ISHIN	DS	27.11.89
	I	1 1 SHIN01	27.11.89
	I	2 2 SHIN02	27.11.89
	Ī	3 3 SHINO3	27.11.89
444.00	Ī	4 4 SHIN04	27.11.89
445.00		5 5 SHIN05	
	I		27.11.89
446.00	I	6 6 SHIN06	27.11.89
446.00 447.00	I	7 7 SHIN07	27.11.89
446.00 447.00 448.00		7 7 SHINO7 8 8 SHINO8	
446.00 447.00 448.00 98330	I	7 7 SHINO7 8 8 SHINO8 JD Edwards World	27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC	I	7 7 SHINO7 8 8 SHINO8 JD Edwards World	27.11.89
446.00 447.00 448.00 98330	I	7 7 SHINO7 8 8 SHINO8 JD Edwards World	27.11.89 27.11.89 Date - 27.01.17
446.00 447.00 448.00 98330 IOOSC	I	7 7 SHINO7 8 8 SHINO8 JD Edwards World	27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No.	I I .JDFSRC6	7 7 SHINO7 8 8 SHINO8 JD Edwards World 1 Print Source Code	27.11.89 27.11.89 Date - 27.01.17
446.00 447.00 448.00 98330 IOOSC Seq No.	I I .JDFSRC6	7 7 SHINO7 8 8 SHINO8 JD Edwards World 1 Print Source Code 9 9 SHINO9	27.11.89 27.11.89 Date - 27.01.17 Mod Date
446.00 447.00 448.00 98330 IOOSC Seq No.	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13	27.11.89 27.11.89 Date - 27.01.17 Mod Date
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. ————————————————————————————————————	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 449.00 450.00 451.00 453.00 454.00 455.00 456.00 457.00 458.00	I I JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 	I I .JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19	27.11.89 27.11.89 Date - 27.01.17 Mod Date
446.00 447.00 448.00 98330 IOOSC Seq No. 	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No.	I I JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 449.00 450.00 451.00 452.00 453.00 454.00 455.00 456.00 457.00 458.00 459.00 460.00 461.00	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21	27.11.89 27.11.89 Date - 27.01.17 Mod Date
446.00 447.00 448.00 98330 IOOSC Seq No. 	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21 22 22 SHIN22 23 23 SHIN22	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No.	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 177 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21 22 22 SHIN22 23 23 SHIN23 24 24 SHIN24	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No. 449.00 450.00 451.00 452.00 453.00 454.00 455.00 456.00 457.00 458.00 459.00 460.00 461.00 462.00 463.00 464.00	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21 22 22 SHIN22 23 23 SHIN23 24 24 SHIN24 25 25 SHIN25	27.11.89 27.11.89 Date - 27.01.17 Mod Date
446.00 447.00 448.00 98330 IOOSC Seq No. 449.00 450.00 451.00 452.00 453.00 455.00 456.00 456.00 459.00 461.00 462.00 463.00 464.00 465.00 466.00	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21 22 22 SHIN22 23 23 SHIN23 24 24 SHIN23 24 24 SHIN24 25 25 SHIN25 26 26 SHIN26	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No.	J JDFSRC6	7 7 SHIN07 8 8 8 SHIN08 JD Edwards World 1 Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 1 SHIN21 22 22 SHIN22 23 23 SHIN23 24 24 SHIN23 24 24 SHIN24 25 25 SHIN25 26 26 SHIN26	27.11.89 27.11.89 Date - 27.01.17 Mod Date 27.11.89
446.00 447.00 448.00 98330 IOOSC Seq No.	J JDFSRC6	7 7 SHIN07 8 8 SHIN08 JD Edwards World Print Source Code 9 9 SHIN09 10 10 SHIN10 11 11 SHIN11 12 12 SHIN12 13 13 SHIN13 14 14 SHIN14 15 15 SHIN15 16 16 SHIN16 17 17 SHIN17 18 18 SHIN18 19 19 SHIN19 20 20 SHIN20 21 21 SHIN21 22 22 SHIN22 23 23 SHIN23 24 24 SHIN24 25 25 SHIN25 26 26 SHIN26 27 27 SHIN27 28 28 SHIN28	27.11.89 27.11.89 Date - 27.01.17 Mod Date
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9-46 JD Edwards World

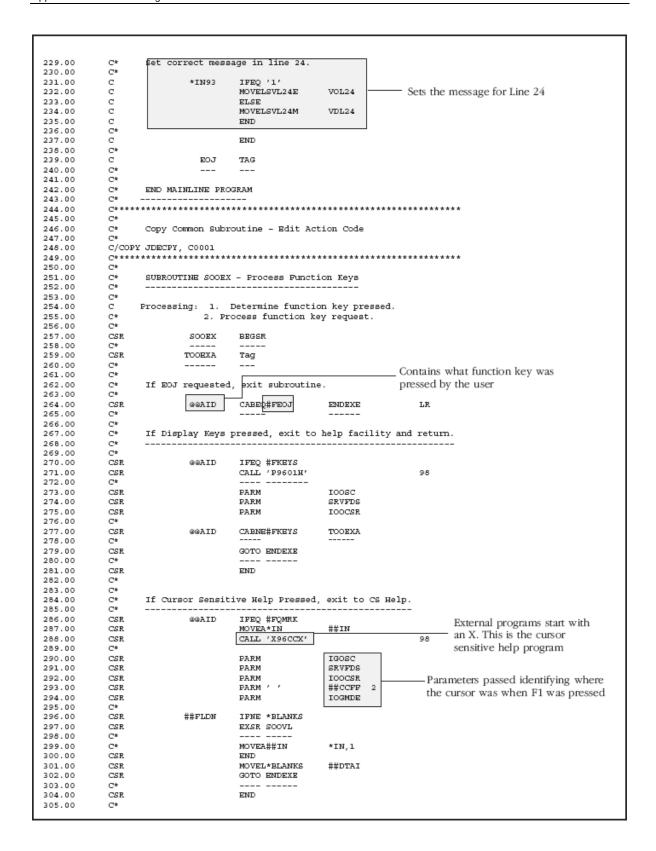
Item Master Information — P928011





9-48 JD Edwards World

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150.00
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                                         WRITEV9280111
             C
C
C*
                                         MOVE /1/
EXSR SOO1
151.00
                                                            @@AID
152.00
153.00
                                                           Clears fields
154.00
              C*
             C*
C*
C
                     Load data field dictionary parameters (one cycle only).
155.00
156.00
                                                                           One time only. Pulls in Data
157.00
                          $998
                                         CASEQ''
                                                              S998
              C*
                                                                           Dictionary editing information
158.00
159.00
                                         END
                                                                           functions
             C*
160.00
161.00
                     Begin video screen read processing.
162.00
             C*
163.00
                                         SETOF
                                                                           999301
164.00
                                         READ V928011
                                                                             9998
                                                            ##RROW
165.00
                                         Z-ADDO
                                                                           Used for cursor sensitive help.
166.00
                                         Z-ADDO
                                                            ##RCOL
                                                                           Tells where the cursor is.
167.00
              C*
             C*
C*
C
168.00
                     If video read timed out, end program.
169.00
                                         CABEQ'1'
170.00
                               *IN99
                                                            EOJ
                                                                               LR
             C*
171.00
172.00
                               @@AID
                                         CABEQ#FEOJ
                                                            EOJ
                                                                               LR
             C*
173.00
174.00
175.00
              C*
                       If vaild function key pressed, process and return.
176.00
              C*
                                                           All function keys are assigned indicator 15 so
             C
C*
177.00
                               *IN15
                                         IFEQ '1'
                                                           if 15 is on, a function key has been pressed
                                         EXSE SOOEX
178.00
179.00
             C
C*
180.00
                                INLR
                                         CABEQ'1'
                                                            EOJ
181.00
             C
C*
182.00
                               *IN15
                                         CABEQ'1'
                                                            END
183.00
             C
C*
C*
184.00
                                         END
185.00
186.00
                     Edit the action code.
187.00
188.00
                                         EXSR C0001
                                                             Edits the action code.
             C*
189.00
                                                             Checks action code security.
190.00
191.00
             C*
                     If end of job requested, end program.
192.00
             C
C*
                               @@AID
193.00
                                         CABEO#FEOJ
                                                            EOJ
194.00
             C*
C*
195.00
                     If clear screen requested, process and return.
196.00
197.00
              C
198.00
                               @@AID
                                         IFEQ #FCLR
199.00
                                         EXSR SOO1
             C*
C*
C*
200.00
                                         GOTO END
201.00
202.00
203.00
                                         END
204.00
             C*
                     Load subfile records.
205.00
             C*
C*
206.00
                                                             Sets the file pointer and calls S004
207.00
                                         EXSR S003
                                                             to load the video/report fields
208.00
209.00
             C*
                     If add or change, validate all video input.
              C*
211.00
                                                                          If an error has occurred,
212.00
                               *IN93
                                         CASEQ'0'
                                                                          validates and edits data
213.00
             C*
                                         END
             C*
215.00
216.00
                     If no errors and not inquiry, update file.
             C*
C *
C *
217.00
                                         IFEQ '0'
218.00
                               *IN93
219.00
                                         CASEQ'0'
                                                            S010
                               *IN24
                                                                           Updates files
220.00
221.00
                                         END
222.00
              C
C*
                                         END
              C*
224.00
                     Return for next input.
225.00
              C*
             C
C*
226.00
                                 END
                                         TAG
227.00
             C*
228.00
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9-50 JD Edwards World

```
C*
306.00
                   If Display errors pressed, exit to error messages
307.00
308.00
            C*
             CSR
                             @@AID
                                      IFEQ #FERRD
310.00
             CSR
                                      Z-ADD1
311.00
             CSR
                                      Z-ADD1
                                                        ΗĦ
312.00
             CSR
                                #G
                                      DOWLE64
313.00
             CSR
                            amk,#G
                                      IFEQ '1'
314.00
             CSR
                                      MOVE EMK, #G
                                                        @ER,#H
315.00
            CSR
CSR
                                      Add 1
                                                        #H
316.00
                                      END
317.00
             CSR
                                      ADD 1
                                                        #G
318.00
             CSR
319.00
             CSR
                                      CALL 'POCOCE'
                                                                          98
320.00
             C*
            CSR
321.00
                                      PARM
                                                        @ER
                                      GOTO ENDEXE
323.00
324.00
             CSR
                                      END
             C*
325.00
326.00
             C*
                   If HELP key pressed, exit to help facility and return.
327.00
             C*
            C*
328.00
                                                                          Access JDE Help information
329.00
                            @@AID
                                       IFEO #FHELP
            C*
330.00
                                      CALL 'POOHELP'
331.00
332.00
             CSR
                                      PARM
                                                        HS@@
333.00
             CSR
                                      PARM
                                                        HEGG
             CSR
334.00
                                      PARM
                                                        IOOSC
335.00
             CSR
                                      PARM
336.00
             CSR
                                      GOTO ENDEXE
337.00
             C*
338.00
             CSR
                                      END
339.00
             C*
340.00
             C*
                    If Clear screen pressed, clear screen and return.
341.00
            C*
342.00
            CSR
343.00
                            @@AID
                                      IFEQ #FCLR
344.00
             CSR
345.00
346.00
             CSR
                                      GOTO ENDEXE
             C*
347.00
348.00
             CSR
349.00
             C*
350.00
            C*
                    Process roll up and down keys.
351.00
352.00
            C*
353.00
             CSR
                             @@AID
                                      IFEQ #FROLU
354.00
             CSR
                             @@AID
                                      OREQ #FROLD
                                      MOVE ' '
355.00
             C*
                            $SECUR
356.00
            CSR
                                                        SSECUR 1
357.00
             C*
358.00
             C*
                   If ROLL UP key pressed, process read next.
359.00
360.00
            C*
361.00
             CSR
                            @@AID
                                      IFEQ #FROLU
362.00
             C*
            C*
363.00
                   Reset error indicators if roll
364.00
365.00
            CSR
                                      MOVEA$RESET
                                                        *IN,41
366.00
             CSR
                                      MOVE '0'
367.00
             CSR
                                      SETOF
                                                                      818299
368.00
            CSR
                                      READ 192801
IFEQ '1'
                                                                        9981
369.00
                             *IN81
             CSR
                                      SETLLI92801
370.00
            CSR
                            $RUKEY
371.00
             CSR
                                      SETOF
                                                                        8299
372.00
             CSR
                                      READ 192801
                                                                        9982
373.00
             C*
374.00
            C*
                   If error on read, set error,
             C*
376.00
             CSR
                             *IN82
                                      IFEQ '1'
377.00
             CSR
                                      SETON
                                                                        9341
378.00
             CSR
                                      MOVE '1'
                                                        @MK,2
                                      GOTO ENDEXE
379.00
             CSR
380.00
             C*
                                      END
381.00
             CSR
382.00
            CSR
                                      END
```

384.00	CSR		END			
385.00	C*					
386.00	C*	If ROLL DOWN key		_		
387.00	C*					
388.00 389.00		@@AID	IFEQ #FROLD			
390.00	CSR C*		1126 #11022			
391.00	C*	Reset error indi	icators if roll			
392.00	C*					
393.00	CSR		MOVEASRESET	*IN, 41		
394.00 395.00	CSR CSR		MOVE '0' SETOF	*IN, 40	818299	
396.00	CSR		READPI92801		9981	
397.00	CSR	*IN91				
398.00	CSR	\$RDKEY	SETLLI92801			
	CSR		SETOF		8299	
400.00	CSR C*		READPI92801		9982	
401.00 402.00	C*	If error on read	i set error.			
403.00	C*	ii ellor on lead	i, bec ellor.			
404.00	CSR	*IN92	IFEQ '1'			
405.00	CSR		SETON		9341	
406.00	CSR		MOVE '1'	@MK,2		
407.00	CSR		GOTO ENDEXE			
408.00	C* CSR		END			
410.00	CSR		END			
411.00	CSR		END			
412.00	C*					
413.00	C*	Load video scree				
414.00	C*					
415.00 416.00	con	992 TD	IFEQ #FROLU			
417.00	CSR C*		OREQ #FROLD			
418.00	C*					
419.00	C*	Release record 1	lock or report r	ecord in use.		
420.00	C*					
421.00	CSR	*IN99	IPEQ '0'			Program that will display a
422.00 423.00	CSR CSR		EXCPTUNLOCK ELSE			record lock window when a
424.00	CSR		CALL 'P98BLCK	,	81	record in use error is
425.00	C*					encournteres
426.00	CSR		PARM	##PSDS		
427.00	CSR		CERTON			
			SETON		9341	
428.00	CSR		MOVE '1'	@MK,6	9341	
429.00	CSR CSR		MOVE '1' GOTO ENDEXE	@MK,6	9341	
429.00 430.00	CSR		MOVE '1' GOTO ENDEXE	@MK,6	9341	
429.00	CSR CSR C*		MOVE '1' GOTO ENDEXE	@MK,6	9341	
429.00 430.00 431.00 432.00 433.00	CSR CSR C* CSR C*		MOVE '1' GOTO ENDEXE END	⊗МК, 6	9341	
429.00 430.00 431.00 432.00 433.00 434.00	CSR C* CSR C* C*	Cost Center secu	MOVE '1' GOTO ENDEXE END	@МК,6	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00	CSR C* CSR C* C* C*	Cost Center secu	MOVE '1' GOTO ENDEXE END urity edit.		9341	
429.00 430.00 431.00 432.00 433.00 434.00	CSR C* CSR C* C* C* C* C*	Cost Center secu	MOVE '1' GOTO ENDEXE END Brity edit. MOVE F92801	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00	CSR C* CSR C* C* C*	Cost Center secu	MOVE '1' GOTO ENDEXE END urity edit.		9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00	CSR CSR C* C* C* C* C* C* CSR CSR CSR CSR CSR CSR CSR		MOVE '1' GOTO ENDEXE END urity edit. MOVE F92801 MOVELQXXCC	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00	CSR CSR C* C* C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	#AUT	MOVE '1' GOTO ENDEXEEND Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00	CSR CSR CSR C* C* C* CSR	#AUT	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00	CSR CSR C* C* C* C* C* CC* CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT	MOVE '1' GOTO ENDEXE END BY BY BY MOVE F92801 MOVELQXXCC IPNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00	CSR CSR C* CS* C* C* C* CSR	#AUT	MOVE '1' GOTO ENDEXEEND Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00	CSR CSR C* C* C* C* C* CC* CSR CSR CSR CSR CSR CSR CSR CSR	#AUT #FAUT #AUT	MOVE '1' GOTO ENDEXE END BY BY BY MOVE F92801 MOVELQXXCC IPNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 444.00 445.00 445.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'F92801 MOVELQXXCC IPNE '1' ANDNE'1' EXSR C0000	'#PILE	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 442.00 444.00 445.00 445.00 446.00	CSR CSR C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END Irity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' ANDNE'1' MOVE '1' END	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00	CSR CSR C* C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT	MOVE '1' GOTO ENDEXE END BITITY edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASBQ''	'#PILE #MCU	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 447.00 448.00 449.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BY BY BY MOVE'F92801 MOVELQXXCC IPNE '1' ANDNE'1' EXER CO0000 END IPNE '1' ANDNE'1' ANDNE'1' ANDNE'1' ANDNE'1' MOVE '1' END CASEQ''	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00	CSR CSR C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BITITY edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASBQ''	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 447.00 448.00 449.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BY BY BY MOVE'F92801 MOVELQXXCC IPNE '1' ANDNE'1' EXER CO0000 END IPNE '1' ANDNE'1' ANDNE'1' ANDNE'1' ANDNE'1' MOVE '1' END CASEQ''	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00 449.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BITITY edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASEQ'' END	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 441.00 442.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00 449.00 449.00 449.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END Irity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' MOVE '1' END CASEQ' ' END END END	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 451.00 451.00 452.00 453.00 453.00 453.00	CSR CSR C* C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASBQ' ' END END END END GOTO ENDEXE	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 447.00 446.00 447.00 448.00 449.00 450.00 450.00 451.00 451.00 451.00 451.00 451.00 451.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BY BY BY BY BY BY BY BY BY B	'#FILE #MCU \$SECUR	9341	
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 441.00 441.00 442.00 444.00 445.00 446.00 447.00 448.00 449.00 449.00 449.00 449.00 441.00 445.00 445.00 445.00 445.00 446.00 447.00 448.00 449.00 449.00 450.00 451.00 451.00 452.00 453.00 455.00 455.00 455.00 455.00 455.00 455.00 455.00 456.00 57.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASBQ' ' END END END END GOTO ENDEXE	'#FILE #MCU \$SECUR	9341	Could not find a greath in the
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 447.00 446.00 447.00 448.00 449.00 450.00 450.00 451.00 451.00 451.00 451.00 451.00 451.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT \$SECUR	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR C0000 END IFNE '1' ANDNE'1' ANDNE'1' MOVE '1' END CASEQ' ' END	'#FILE #MCU \$SECUR	9341	Could not find a match in the
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 441.00 442.00 444.00 445.00 445.00 446.00 447.00 448.00 449.00 450.00 450.00 451.00 452.00 453.00 453.00 454.00 455.00 455.00 456.00 456.00 456.00 456.00 456.00 456.00 456.00 456.00 456.00 456.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT	MOVE '1' GOTO ENDEXE END BY BY BY BY BY BY BY BY BY B	'#FILE #MCU \$SECUR	0193	Function Key Definitions for
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 441.00 441.00 441.00 444.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00 452.00 453.00 451.00 455.00 456.00 457.00 458.00 456.00 457.00 458.00 458.00 459.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT \$SECUR	MOVE '1' GOTO ENDEXE END Irity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR CO000 END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' END CASEQ' ' END END END END IFNE '1' STON GOTO ENDEXE	'#FILE #MCU \$SECUR		Function Key Definitions for the function key pressed, so
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 440.00 441.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT \$SECUR	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'P92801 MOVELQXXCC IPNE '1' ANDNE'1' EXSR CO000 END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' ANDNE'1' END END END END END END END END GOTO ENDEXE END IPNE '1' SETON GOTO ENDEXE	'#FILE #MCU \$SECUR		Function Key Definitions for
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 441.00 445.00 444.00 445.00 447.00 448.00 447.00 448.00 455.00 456.00 457.00 458.00 458.00 459.00 459.00 458.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00 459.00	CSR CSR C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT \$SECUR	MOVE '1' GOTO ENDEXE END Irity edit. MOVE'F92801 MOVELQXXCC IFNE '1' ANDNE'1' EXSR CO000 END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' END CASEQ' ' END END END END IFNE '1' STON GOTO ENDEXE	'#FILE #MCU \$SECUR		Function Key Definitions for the function key pressed, so
429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 450.00 451.00 458.00 458.00 458.00 458.00 459.00 459.00 460.00 460.00	CSR CSR C* C* C* C* CSR	#AUT #FAUT #AUT #FAUT #MAUT \$SECUR	MOVE '1' GOTO ENDEXE END Brity edit. MOVE'P92801 MOVELQXXCC IPNE '1' ANDNE'1' EXSR CO000 END IFNE '1' ANDNE'1' ANDNE'1' ANDNE'1' ANDNE'1' END END END END END END END END GOTO ENDEXE END IPNE '1' SETON GOTO ENDEXE	'#FILE #MCU \$SECUR		Function Key Definitions for the function key pressed, so program displays <i>Invalid</i>

9-52 JD Edwards World

466.00	C****	*******	******	*******	**
467.00	C*				
469.00	C*	Copy Common Subro	ıtine - Coat Cent	er Secturity Check	
469.00	C*				
470.00	C/COE	PY JDECPY, C0000			** For cursor sensitive help.
471.00 472.00	C*	*************	******	*********	Information was retrieved in
473.00	C*	SUBROUTINE SGCVL	- Cursor Control	Peturn Values	
474.00	C*				program X96CCX. The retrieved
475.00	C*				information is returned to the
476.00	C*	By format, find t	the field to upat	e and move in the	video fields in this subroutine.
477.00	C*			a subfile, the record	
478.00	C*	to change is found	i in @@RRN.		
479.00	C*	SOOVL	PROGR		
480.00 481.00	CSR C*	50071	BEGSR		
482.00	C*				
483.00	CSR	##RVAL	IFEQ 'BLANK'		
484.00	CS		MOVE *BLANK	##RVAL	
485.00	C*		END		
486.00	C*		5: 11 : 5		
487.00	C*	Return values for	r fields in forma	t V9280111	
488.00	C*				
489.00	CSR	##RFMT	IFEQ 'V9280111'		
490.00	C*				
491.00	CSR	##FLDN	IFEQ 'ACTION	,	
492.00	CSR		MOVE##RVAL	ACTION	
493.00	CSR		GOTO ENDOVL		
494.00 495.00	C* CSR		END		
496.00	C*		END		
497.00	CSR	##FLDN	IFEQ 'VDXIT	,	
498.00	CSR		MOVEL##RVAL	VDXIT	
499.00	CSR		GOTO ENDOVL		
500.00	C*				
501.00	CSR		END		
502.00	C*	# #FT F75	THE AMERICA		
503.00 504.00	CSR CSR	##FLDN	IFEQ 'VDXDS MOVEL##RVAL	VDXDS	
505.00	CSR		GOTO ENDOVL	VDADS	
506.00	C*				
507.00	CSR		END		
508.00	C				
509.00	CSR	##PLDN	IMEÓ 'ADXCC	,	
510.00	CSR		MOVEL##RVAL	VDXCC	
511.00 512.00	CSR C*		GOTO ENDOVL		
513.00	CSR		END		
514.00	C*		END		
515.00	CSR	##FLDN	IFEQ 'VDXTY	,	
516.00	CSR		MOVEL##RVAL	VDXTY	
517.00	CRS		GOTO ENDOVL		
517.00	CRS C*		GOTO ENDOVL		
518.00	CSR.		END		
520.00	C*				
521.00	CSR	##FLDN	IFEQ 'VDXDT	,	
522.00	CSR		MOVEL##RVAL	VDXDT	
523.00	CSR		GOTO ENDOVL		
524.00	C*				
525.00 526.00	CSR C*		END		
526.00	CSR	##PLDN	IFEO 'VDXOT	,	
528.00	CSR	##R TIDIN	MOVEL##RVAL	VDXQT	
529.00	CSR		GOTO ENDOVL		
530.00	C*				
531.00	CSR		END		
532.00	C*				
533.00	CSR	##FLDN	IFEQ 'VDXUM	,	
534.00	CSR		MOVEL##RVAL	VDXUM	
535.00 536.00	CSR C*		GOTO ENDOVL		
537.00	CSR		END		
538.00	C*				
539.00	CSR	##FLDN	IFEQ 'VDX001	,	
540.00	CSR		MOVEL##RVAL	VDX001	
541.00	CSR		GOTO ENDOVL		
542.00	C*				

543.00 CSR END 544.00 C* 545.00 CSR ##FLDN IPEQ 'VDX002 ' 546.00 CSR MOVEL##RVAL VDX002	
545.00 CSR ##FLDN IPEQ 'VDX002 ' 546.00 CSR MOVEL##RVAL VDX002	
546.00 CSR MOVEL##RVAL VDX002	
L FAR AG AGR	
547.00 CSR GOTO ENDOVL 548.00 C*	
549.00 CSR END	
550.00 C*	
551.00 CSR #FLDN IPEQ 'VDX003 '	
552.00 CSR MOVEL##RVAL VDX003	
553.00 CSR GOTO ENDOVVL	
554.00 C*	
555.00 CSR END 556.00 C*	
557.00 CSR ##FLDN IPPQ 'VDX004 '	
558.00 CSR MOVEL##RVAL VDX004	
559.00 CSR GOTO ENDOVL	
561.00 CSR END	
562.00 C*	
563.00 CSR ##FLDN IPEQ 'VDX005 '	
564.00 CSR MOVEL##RVALL VDX005 565.00 CSR GOTO ENDOVL	
565.00 C*	
567.00 CSR BND	
568.00 CSR END	
569.00 C*	
570.00 CSR ENDOVL ENDSR	
571.00	
572.00 C* 573.00 C* SUBROUTINE S001 - Clear Fields	
573.00 C* SUBROUTINE SUIT - Clear Fields 574.00 C*	
575.00 C*	
576.00 C* Processing: 1. Reset all video screen and data file fields	
577.00 C* for next transaction.	
578.00 C* 2. Clear action code only if roquested.	
579.00 C*	
580.00 CSR S001 BEGSR 581.00 C*	
582.00 C*	
583.00 C* Reset fields for next transaction.	
	e fields in the record
585.00 CSR NOKEY CLEARI92801 format for F	
586.00 CSR MOVE *BLANK ###CLP	2001
587.00 CSR MOVE *BLANK ###CRC	
588.00 CSR 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	:1 6-11-
595.00 CSR MOVE *BLANK VDXTY ——Clears the vi	ideo neids
596.00 CSR MOVE *BLANK VDXUM 597.00 CSR MOVE *BLANK VDX001	
598.00 CSR MOVE *BLANK VDX001 598.00 CSR MOVE *BLANK VDX002	
599.00 CSR MOVE *BLANK VDX003	
600.00 CSR MOVE *BLANK VDX004	
601.00 CSR MOVE *BLANK VDX005	
602.00 CSR MOVELSVL24M VDL24	
603.00 CSR MOVE ' @IN37 1	
604.00 C* Clear action code only if clear screen action.	
606.00 C* Clear action code only if clear screen action.	
607.00 CSR @@AID IPEQ #FCLR	
608.00 CSR MOVE *ALL'0' \$RESET	
	will only be cleared
610.00 CSR MOVE' ACTION 1 if the user p	resses the function
611.00 CSR Z-ADD+ZERO QXXIT key to clear	the screen. We want
612.00 CSR MOVE *BLANK VC0001	in information like
OLD TO COME	nd descriptions of
	et cleared everytime
616.00 CSR MOVE *BLANK VC0005 S001 is exec	
617.00 CSR MOVE *BLANK VC0006 S001 is exec	aca.
618.00 CSR MOVE *BLANK VC0007	
619.00 CSR MOVE *BLANK VC0008	
620.00 CSR Z-ADD*ZERO \$\$EDT 60 621.00 CSR END	
621.00 CSK BND	
623.00 CSR ENDOO1 ENDSR	
I and the second	

9-54 JD Edwards World

```
C************************
624.00
625.00
            C*
                                                                                  Sets the file pointer and
                    SUBROUTINE S003 - Edit Key
626.00
627.00
            C*
                                                                                  edit the key
628.00
            C*
                   Processing:
629.00
            C*

    Clear error indicators and arrays.

                                   2. Load input keys.
3. Validate Master file key.
4. Release master file record lock.
630.00
            C*
            C*
631.00
632.00
            C*
633.00
            C*
                                    5. Load video screen output on inquiry.
634.00
            C*
635.00
            CSR
                             S003
                                      BEGSR
            C*
636.00
637.00
            C*
638.00
            C*
                   Load data field dictionary parameters (one cycle only).
            C*
639.00
            CSR
                                      CASEQ''
                             $998
640.00
                                                        S998
641.00
642.00
            CSR
                                      END
            C*
643.00
644.00
                   Reset error indicators and arrays.
645.00
            C*
646.00
                                      MOVE *ALL'0'
                                                         $RESET 39
647.00
            CSR
                                      MOVE *BLANK
                                                        $REST1 63
648.00
            CSR
                                      MOVEASPESET
                                                         *IN, 41
649.00
                                      MOVEASREST1
                                                        @MK, 2
            CSR
650.00
            CSR
                                      CLEARGER
651.00
652.00
            C*
653.00
            C*
                   Load video input field for - Item ID
654.00
            C*
655.00
            CSR
                                      MOVEAVDXIT
656.00
            CSR
                                      EXSR C0012
657.00
658.00
            CSR
                                      Z-ADD#NUMR
                                                         SNBRO8 80
                                      MOVE $NBR08
659.00
            CSR
                                                         TIXXQ
660.00
            C*
661.00
            C*
                  Automatic Next Number for - Item ID
662.00
            C*
663.00
            CSR
                            *IN21
                                      IFEQ '1'
664.00
                                      ANDĒQ*BLANK
                            VDXIT
665.00
            CSR
                                      SETON
                                                                 81
                                      DOWEQ'1'
666.00
            CSR
                            *IN91
                                      MOVE N@XIT
                                                       PSIDX 2
667.00
            CSR
668.00
            CSR
                                      CALL 'X0010'
669.00
670.00
            CSR
                                      PARM S@XIT
                                                       NNSY
                                                                4
671.00
            CSR
                                      PARM PSIDX
                                      PARM *ZERO
                                                       #NXTNO 80
672.00
            CSR
                                      MOVE #NXTNO
673.00
674.00
            CSR
                                      MOVE #NTXTNO
                                                        VDXIT
675.00
            CSR
                            OXXIT
                                      SETLLF92801
                                                                  9291
676.00
            CSR
                                      END
677.00
            CSR
678.00
            C*--
679.00
            CSR
                           QXKY01
                                      CHAIN192801
                                                                  9899
680.00
            C*
681.00
            C*
                  Cost Center security edit.
682.00
            C*
683.00
            CSR
                                      MOVEL'F92801
                                                        '#FILE
684.00
            CSR
                                      MOVELQXXCC
                                                        #MCU
                                      IFNE '1'
685.00
                             #AUT
            CSR
                                      ANDNE'1'
686.00
            CSR
                            #FAUT
687.00
            CSR
                                      EXSR C0000

    Checks cost center security

688.00
            C*
689.00
            CSR
                                      END
690.00
                             #AUT
                                      IFNE '1'
            CSR
                                      ANDNE'1'
691.00
            CSR
                            #FAUT
692.00
            C*
                            #MAUT
                                      ANDNE'1'
693.00
            CSR
                                      MOVE '1'
                                                       SSECR 1
694.00
            CSR
                                      END
695.00
            C*
696.00
            C*
                   If security violation, set error condition.
697.00
            C*
698.00
            CSR
                           SSSECR
                                      IFEQ '1'
MOVE '1'
699.00
            CSR
                                                       @MK.8
700.00
                                      SETON
                                                                    9341
```

```
MOVE ' '
701.00
                                               ŚŚSEFCR 1
           CSR
702.00
           CSR
                                 GOTO END003
703.00
           C*
                                 END
704.00
           CSR
705.00
706.00
           C*
           C*
                Edit result of read and action code.
707.00
           C*
708.00
           CSR
                        *TN98
                                 IFEQ '1'
                                 COMB '0'
709.00
          CSR
                        *IN21
                                                                        41 *error*
710.00
           CSR
                                 ELSE
                                 COMP '1'
711.00
                        *IN21
           CSR
                                                                        41 *error*
712.00
           CSR
                                 END
          C*
C* If indicator 41 on, invalid key for action code.
713.00
714.00
715.00
                                IFEQ '1'
MOVE '1'
716.00
           CSR
                       *IN41
717.00
           CSR
                                              @MK, 2
718.00
           CSR
                                 SETON
                                                                93
719.00
           CSR
720.00
           C*
721.00
           C*
               If indicator 99 on, record in use.
722.00
                  *IN99
723.00
           CSR
                                 IPEQ '1'
                                 CALL 'P98RLCK'
724.00
           CSR
725.00
           CSR
726.00
727.00
                                          ##PSDS
@MK,6
           CSR
                                 PARM
           CSR
                                 MOVE '1'
728.00
           CSR
                                 SETON
                                                             9341
729.00
           CSR
                                 END
730.00
           C*-----
731.00
732.00
           C*
           C* If not inquiry, skip remainder of subroutine.
           C*
733.00
           C*
CSR *IN24 CABBQ'0' END003
734.00
735.00
           CSR
                                 -----
           C*-----
736.00
737.00
           C*
738.00
          C*
                Release record lock on master file
          C*
CSR
739.00
               *IN98
(IN99
                                 IPEO '0'
740.00
741.00
                                                                       JDE uses this or SETLL
           CSR
                                 ANDEQ'0'
                                                                       to release record locks
742.00
           CSR
                                 EXCPTUNLOCK
743.00
          CSR
                                 END
744.00
745.00
           C*
           CSR
               If errors, skip remainder of subroutine.
746.00
           C*
747.00
           CSR
                                 CABBQ'1'
748.00
           C*
           C*-----
749.00
750.00
           C*
751.00
               Move data base information to video screen.
752.00
           C*
                                                                       Moves information to
                                EXSR S004
753.00
           CSR
                                                                       the video/report fields
754.00
           CSR
755.00
           C*----
756.00
           CSR
                      ENDO03 ENDSR
           757.00
           C*
758.00
759.00
           C*
                Copy Common Subroutine - Right Justify Numeric Fields
760.00
           C*
           C/COPY JDECPY, C0012
761.00
           762.00
763.00
           C*
764.00
           C*
                SUBROUTINE S004 Load Video Screen Data
765.00
           C*
766.00
           C*
767.00
768.00
           C*
               Processing 1. Move data base information to video screen.
           C*
                                All video screen fields re alpha and
769.00
           C*
                                therefore numeric information must be
770.00
                                processed through subroutine C0014 to set
           C*
771.00
                               proper decimals and provide editing for display on screen.
           C*
772.00
773.00
           C*
                               Date fields must be converted from their internal format of month, day and year or Julian to the system format using program
774.00
           C*
           C*
775.00
776.00
           C*
777.00
                                X0028.
```

9-56 JD Edwards World

778.00	C*					
779.00	CSR	S004	BEGSR			
780.00	C*					
781.00	C*					
782.00	C*					
783.00	C*	Move to output	-Description for	Cost Center		
784.00	C*	-	-			
785.00	CSR		CALL 'X0006'		91	
786.00	C*					
787.00	CSR		PARM *BLANKS	PSOMOD 1		
788.00	CSR		PARM '1'	PSIMOD 1		
789.00	CSR		PARM QXXCC	PSMCU 12		
790.00	CSR		PARM *BLANKS			
	CSR		PARM	10006		
	C*					
793.00	CSR		MOVE *BLANK	VC0001		
794.00	CSR	PDRTRM	IFEQ *BLANK			
795.00	CSR		MOVELMCDL01	VC0001		
	CSR		END			
797.00	C*					
798.00	C*	Dogaristics 31-	nlaw for them	Timo		
799.00 800.00	C*	pescription dis	play for - Item	TAbe		
			CT.Paprocert			
801.00 802.00	CSR CSR		CLEARIOO5U MOVELS@XTY	#USX		
803.00	CSR		MOVELSWATE MOVE R@XTY	#URT		
804.00	CSR		MOVE QXXTY	#UKY		File server for user
	CSR		CALL 'X0005'	П 02.52	81	
806.00	C*				0.1	defined codes
807.00	CSR		PARM	*0005U		
	CSR		MOVE *BLANK	VC0002		
	CSR	#UERR	IFEQ 'O'			
	CSR		MOVEL#UDL01	VC0002		
811.00	CSR		END "	-		
812.00	C*					
813.00	C*					
914.00	C*	Description dis	play for - Item	Unit of Measure		
815.00	C*	- '	_			
816.00	CSR		CLEARI0005U			
817.00	CSR		MOVELS@XUM	#USY		
818.00	CSR		MOVE R@XUM	#URT		
819.00	CSR		MOVE QXXUM	#UKY		
820.00	CSR		CALL 'X0005'		91	
821.00	C*					
	CSR		PARM	I0005U		
	CSR		MOVE *BLANK	VC0003		
824.00	CSR	#UERR	IFEQ 'O'			
	CSR		MOVEL#UDL01	VC0003		
826.00	CSR		END			
827.00	C*					
929.00 929.00		Description dia	nlaw for - Item	Category Code Cos		
830.00	C*	Description dis	pray for - frem	category code 001		
	CSR		CLEARI0005U			
	CSR		MOVELS@XOOl	#USY		
833.00	CSR		MOVE R@X001	#URT		
834.00	CSR		MOVE QXX001	#UKY		
835.00	CSR		CALL 'X0005'	# 01/12	81	
836.00	C*					
837.00	CSR		PARM	I0005U		
838.00	CSR		MOVE *BLANK	VC0004		
839.00	CSR	#UERR	IFEQ 'O'	-		
840.00	CSR	Потогоду	MOVEL#UDL01	VC0004		
841.00	CSR		END			
842.00	C*					
843.00	C*					
844.00	C*	Description dis	play for - Item	Category Code 002		
845.00	C*	-				
846.00	CSR		CLEARI0005U			
847.00	CSR		MOVELS@X002	#USY		
848.00	CSR		MOVE R@X002	#URT		
849.00	CSR		MOVE QXX002	#UKY		
850.00	CSR		CALL 'X0005'		81	
851.00	C*					
852.00	CSR		PARM	I0005U		
853.00	CSR		MOVE *BLANK	VC0005		
854.00	CSR	#UERR	IFEQ 'O'			
L						

55.00	CSR		MOVEL#UDL01	VC0005			
56.00	CSR		END				
57.00	C*						
58.00	C*						
59.00	C*	Description dist	olay for - Item C	ategory Code	003		
60.00.	CSR		•				
61.00	CSR		CLEARI0005U				
62.00	CSR		MOVELS@X003	#USY			
63.00	CSR		MOVE R@X003	#URT			
64.00	CSR		WOAE ÖXX003	#UKY			
65.00	C*		CALL 'X0005'			81	
66.00	CSR						
67.00	CSR		PARM	10005Ψ			
68.00	CSR		MOVE *BLANK	VC0006			
69.00	CSR	#UERR	IPEQ 'O'				
70.00	CSR		MOVEL#UDL01	VC0005			
71.00	CSR		END				
72.00	C*						
73.00	C*						
74.00	C*	Description disr	olay for - Item C	ategory Code	004		
75.00	C*			g-1, code			
76.00	CSR		CLEARI0005U				
77.00	CSR		MOVELS@X004	#USY			
78.00	CSR		MOVE R@X004	#URT			
79.00	CSR		MOVE QXX004	#UKY			
80.00	C*		CALL 'X0005'			81	
81.00	CSR						
82.00	CSR		PARM	10005Ψ			
83.00	CSR		MOVE *BLANK	VC0007			
84.00	CSR CSR	#UERR	IPEQ '0'				
85.00	CSR		MOVEL#UDL01	VC0007			
86.00	CSR		END				
87.00	C*						
88.00	C*						
89.00	C*	Description disp	olay for - Item C	ategory Code	005		
90.00	C*						
91.00	CSR		CLEARI0005U				
				477777			
92.00	CSR		MOVELS@X005	#USY			
93.00	CSR		MOVE R@X005	#URT			
94.00	CSR		MOVE QXX005	#UKY			
95.00	C*		CALL 'X0005'			81	
96.00	CSR						
97.00	CSR		PARM	10005Ψ			
98.00	CSR		MOVE *BLANK	VC0008			
99.00	CSR	#UERR	IPEQ 'O'				
00.00	CSR		MOVEL#UDL01	VC0008			
01.00	CSR		END				
02.00	C*						
03.00	C*						
04.00	C*	Move to output -	- Cost Center				
05.00	C*	output					
06.00	CSR		MOVE *BLANK	#SINBR			
	CSR			#SINBR			
07.00			MOVELQXXCC MOVE T@XCC				
08.00	CSR			#DTYP			
09.00	CSR		MOVE W@XCC	#EWRD			
10.00	CSR		MOVE E@XCC	#BC			Editing information
11.00	CSR		MOVE F@XCC	#DSPD			retrieved in S998
12.00	CSR		MOVE G@XCC	#DATD			Tente ved in 5776
13.00	CSR		MOVE J@XCC	#ALR			
14.00	CSR	'	MOVE ' '	#ECOR			
15.00	CSR		MOVE ' '	#DCOR			C
16.00	CSR		EXSR C00161				Copy module to edit field
17.00	CSR						for use on screen/report
18.00	CSR	#ALR	IPEQ 'L'				
19.00	CSR		MOVEL#SINBR	VDXCC			
20.00	CSR		ELSE				
21.00	CSR		MOVE #SINBR	VDVCC			
				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			
	C*						
28.00							
	C*						
28.00 29.00 30.00	C*	Move to Output -	- Date Last Ship				
29.00		Move to Output -	- Date Last Ship				

9-58 JD Edwards World

932.00	CSR	MOVE QXXDT	#SIDAT 6
933.00	CSR	MOVE *BLANK	#EDAT 8
934.00	CSR	MOVEL'*JUL	'#FFMT 7
935.00 936.00	CSR	MOVEL'*SYSVAL	
937.00	CSR CSR	MOVEL'*SYSVAL MOVE ''	\$KRTST 7
938.00	CSR	CALL 'X0028	External program used to
939.00	C*	CALL X0020	edit dates.
940.00	CSR	PARM	#SIDAT
941.00	CSR	PARM	#EDAT
942.00	CSR	PARM	#FPMT
943.00	CSR	PARM	#TFMT
944.00	CSR	PARM	#SKP
945.00	CSR	PARM	\$KRTST
946.00	C*	MOVEL#EDAT	VDXDT
947.00	C*		
949.00 949.00	C* Move to outpu	t - Iten ID	
950.00	C* Move to outpu	ic - Item ID	
951.00	CSR	MOVE *BLANK	#sinbr
952.00	CSR	MOVELQXXIT	#SINBR
953.00	CSR	MOVE T@XIT	#DTYP
954.00	CSR	MOVE W@XIT	#EWRD
955.00	CSR	MOVE E@XIT	#EC
956.00	CSR	MOVE F@XIT	#DSPD
957.00	CSR	MOVE G@XIT	#DATD
958.00	CSR	MOVE J@XIT	#ALR_
959.00	CSR	MOVE ' '	#ECOR
960.00	CSR	MOVE ' '	#DCOR
961.00	CSR C*	EXSR C00161	
962.00 963.00	CSR #ALI		
964.00	CSR #AL	MOVEL#SINBR	VDXIT
965.00	CSR	ELSE	VEALL
966.00	CSR	MOVE #SINBR	VDXIT
967.00	CSR	END	
969.00	C*		
969.00	C*		
970.00	C* Move to outpu	ıt - Quantity - On 1	hand
971.00	C*		
972.00	CSR	MOVE *BLANK	#SINBR
973.00	CSR	MOVELQXXQT	#SINBR
974.00	CRR	MOVE T@XQT	#DTYP
975.00	CSR	MOVE W@XQT	#RWRD
976.00 977.00	CSR CSR	MOVE E@XQT MOVE F@XQT	#EC #DSPD
978.00	CSR	MOVE G@XQT	#DATD
979.00	CSR	MOVE J@XQT	#ALR
980.00	CSR	MOVE ' '	#ECOR
981.00	CSR	MOVE ' '	#DCOR
982.00	CSR	EXSR C00161	
983.00	C*		
984.00	CSR #ALI	-	
985.00	CSR	MOVEL#SINBR	VDXQT
986.00	CSR	ELSE	ITOYOTI
987.00	CSR	MOVE #SINBR	VDXQT
989.00 989.00	CSR C*	END	
990.00	C*		
991.00	C* Move to outpu	ıt – Item Tvr≏	
992.00	C*	1F	
993.00	CSR	MOVELQXXTY	VDXTY
994.00	C*		
995.00	C*		
996.00		ıt - Item Unit of Me	easure
997.00	C*		
999.00	CSR	MOVELQXXUM	VDXUM
999.00	C*		
1000.00	C*	t Them 3-1	dede cos
1001.00	_	ıt - Item Category (Code UUI
1002.00	C* CSR	MOVE *BLANK	#SINBR
1003.00	CSR	MOVELQXX001	#SINBR
1005.00	CSR	MOVE T@X001	#DTYP
1006.00	CSR	MOVE W@XOO1	#EWRD
1007.00	CSR	MOVE E@XOOl	#BC
1009.00	CSR	MOVE G@X001	#DATD

1010 00	con		MOUTH TOYOO!	Hara.
1010.00	CSR CSR		MOVE J@X001 MOVE ' '	#ALR #ECOR
1012.00	CSR		MOVE ' '	#DCOR
1013.00	CSR		EXSR C00161	
1014.00	C*			
1015.00	CSR	#ALR	IFEQ 'L'	
1016.00			MOVEL#SINBR	VDX0001
1017.00	CSR		ELSE	LTDV TT
1018.00 1019.00	CSR CSR		MOVE #SINBR END	VDXIT
1021.00	C*			
1022.00	C*	Move to output -	Item Category (Oode 002
1023.00	C*			
1024.00	CSR		MOVE *BLANK	#SINBR
1025.00	CSR		MOVELQXX002	#SINBR
1026.00 1027.00	CRR		MOVE T@X002 MOVE W@X002	#DTYP #RWRD
	CSR		MOVE EGX002	#EC
1029.00	CSR		MOVE F@X002	#DSPD
1030.00	CSR		MOVE G@X002	#DATD
1031.00	CSR		MOVE J@X002	#ALR
	CSR		MOVE ' '	#ECOR
1033.00	CSR		MOVE ' '	#DCOR
1034.00	CSR		EXSR C00161	
1035.00 1036.00		#ALR	IFEQ 'L'	
1036.00	CSR CSR	#NTW.	MOVEL#SINBR	VDX002
	CSR		ELSE	
1039.00	CSR		MOVE #SINBR	VDX002
1040.00			END	
1041.00				
1042.00		W bb	Th 0-4	7-4-003
1043.00 1044.00		Move to output -	Ttem Category	code 003
1045.00	CSR		MOVE *BLANK	#SINBR
1046.00	CSR		MOVELQXX003	#SINBR
1047.00	CSR		MOVE T@X003	#DTYP
1048.00	CSR		MOVE M@XOO3	#EWRD
	CSR		MOVE E@XOO3	#EC
	CSR CSR		MOVE F@X003 MOVE G@X003	#DSPD #DATD
1051.00 1052.00	CSR		MOVE G@X003	#ALR
	CSR		MOVE , ,	#ECOR
	CSR		MOVE ' '	#DCOR
1055.00	CSR		EXSR C00161	
	C*			
	CSR	#ALR	IFEQ 'L'	
	CSR		MOVEL#SINBR	VDX003
1059.00 1060.00	CSR		ELSE MOVE #SINBR	VDX003
1061.00			END #SINBK	1240702
1062.00				
1063.00	C*			
1064.00		Move to output -	Item Category (Code 004
1065.00	C*		MOTIO + 22	#CTYPE
1066.00	CSR		MOVE *BLANK MOVELOXX004	#SINBR #CINDB
1067.00 1068.00	CSR CSR		MOVELQXX004 MOVE T@X004	#SINBR #DTYP
1069.00	CSR		MOVE W@XOO4	#EWRD
1070.00	CSR		MOVE E@XOO4	#EC
1071.00	CSR		MOVE F@X004	#DSPD
1072.00	CSR		MOVE G@X004	#DATD
1072.00	CSR		MOVE J@X004	#ALR
1074.00	CSR		MOVE ' '	#ECOR #DCOR
1075.00 1076.00	CSR CSR		EXSR C00161	#DCOR
1077.00	C*			
1078.00	CSR	#ALR	IFEQ 'L'	
1079.00	CSR	**	MOVEL#SINBR	VDX004
1080.00	CSR		ELSE	
1081.00	CSR		MOVE #SINBR	VDX0 04
1082.00	CSR C*		END	
1083.00 1084.00	C*			
1085.00	C*	Move to output -	Item Category (Code 005
1086.00	C*			

9-60 JD Edwards World

```
1087.00
            CSR
                                    MOVE *BLANK
                                                     #SINBR
1088.00
                                    MOVELOXX005
                                                     #SINBR
            CSR
1089.00
                                    MOVE T@X005
                                                     #DTYP
            CRR
1090.00
            CSR
                                     MOVE W@X005
                                                     #EWRD
1091.00
            CSR
                                    MOVE E@X005
                                                      #EC
                                                     #DSPD
1092.00
            CSR
                                    MOVE F@X005
1093.00
            CSR
                                    MOVE G@X005
                                                     #DATD
1094.00
            CSR
                                     MOVE J@X005
                                                     #ALR
                                    MOVE ' '
1095.00
            CSR
                                                     #ECOR
1096.00
            CSR
                                                     #DCOR
                                    EXSR C00161
1097.00
            CSR
1098.00
            C*
1099.00
            CSR
                            #ALR
                                     IFEQ 'L'
1100.00
            CSR
                                     MOVEL#SINBR
                                                     VDX005
1101.00
            CSR
                                    ELSE
1102.00
            CSR
                                    MOVE #SINBR
                                                     VDX005
1103.00
            CSR
                                    END
1104.00
1105.00
            CSR
                          END004
                                    ENDSR
            C*************
1106.00
            C*
1107.00
1108.00
            C*
                  Copy Common Subroutine - Format Numeric Fields for Output with Override
1109.00
1110.00
            C/COPY JDECPY, C00161
1111.00
            C*
1112.00
                                                                      _Validates and edits data
1113.00
            C*
                   SUBROUTINE S005 - Scrub Input
1114.00
            C*
                                                                       entered by the user
            C*
1115.00
                   Processing: 1. Validate all video input.
1116.00
1117.00
            C*
                                    All numberic fields must be processed
1118.00
                                    through subroutines C0012 and C0015 in order
            C*
1119.00
            C*
                                    to scrub the alpha input field and convert
1120.00
            C*
                                    15 digits and 0 decimals.
            C*
1121.00
1122.00
            C*
                                    Date fields must be converted from system
1123.00
                                    format to their internal format of month,
1124.00
            C*
                                    day and year or julian using program X0028.
1125.00
            C*
                                Update data record fields from video.
            C*
1126.00
1127.00
            CSR
                            S005
1128.00
1129.00
            C*
                  If not addition or change, bypass subroutine
            C*
1130.00
            C*
1131.00
1132.00
            CSR
                                     IFEQ '0'
                                                                       Only performs this
1133.00
                                     ANDEQ'0'
                                                                       subroutine if a record is
1134.00
            CSR
                                    GOTO ENDOOS
                                                                       added or changed
1135.00
            C*
1136.00
            CSR
                                    END
1137.00
1138.00
1139.00
            C*
1140.00
            C*
                   Scrub and edit - Cost Center
            C*
1141.00
1142.00
            CSR
                                    CALL 'X0006'
1143.00
            C*
1144.00
            CSR
                                    PARM '1'
                                                     PSOMOD
                                    PARM '1'
1145.00
                                                     PSIMOD
            CSR
                                                              1
1146.00
            CSR
                                    PARM VDXCC
                                                     PSMCU
                                                             12
1147.00
                                     PARM *BLANKS
                                                     PSERRM
1148.00
            CSR
                                     PARM
                                                     I0006
1149.00
            C*
1150.00
            CSR
                          PSERRM
                                     IFNE *BLANK
1151.00
            CSR
                                     SETON
                                                                    4393
1152.00
            CSR
                                    MOVELPSERRM
                                                     EMK, 10
1153.00
            CSR
                                     MOVE '1'
                                                     @MK,10
1154.00
            CSR
                                    END
1155.00
                                    MOVE PSMCU
                                                     OXXCC
            CSR
1156.00
1157.00
            C*
1158.00
            C*
                  Scrub and edit - Description
            C*
1159.00
1160.00
            CSR
                                    MOVELVDXDS
                                                     QXXDS
1161.00
1162.00
            C*
                   Set default value - Description
1163.00
```

1165.00	CSR	OXXDS	UFEQ *BLANK				
1166.00	CSR	DaxDs	IFNE *BLANK				
1167.00	CSR		MOVEAD@XDS	aDV			
1168.00	CSR		MOVEGDV	QXXDS			
1169.00	CSR	@DV,1	IFEQ ''''				
1170.00	CSR		MOVE ' '	@DV,1			
1171.00 1172.00	CSR CSR	#M	Z-ADD2 DOWLE40	#M			
1173.00	CSR	@DV,#M	IFEQ '''				
1174.00	CSR	WD V , #1.1	MOVE ' '	⊜DV,#m			
1175.00	CSR		END	, ,,			
1176.00	CSR		ADD 1	#M			
1177.00	CSR		END				
1178.00	CSR		MOVEA@DV, 2	QXXDS			
1179.00	CSR		END				
1180.00	CSR		END				
1181.00 1182.00	CSR C*		END				
1183.00	C*	Edit allowed val	ues - Description	n			
1184.00	C*			-			
1185.00	CSR	A@XDS	IFEQ '*NB'				
1186.00	CSR	QXXDS	ANDEQ*BLANK				
1187.00	CSR		MOVE '1'	@MK,03			
1188.00	CSR		SETON			4293	
1189.00	CSR		END				
1190.00	C*						
1191.00 1192.00	C*	Scrub and edit -	Date Last Chin				
1193.00	C*	Solub and edit -	race page surp				
1194.00	CSR		MOVEAVDXDT	⊚NM			A
1195.00	CSR		EXSR C0012				
1196.00	C*						Weds Calda and in the
1197.00	CSR		Z-ADD#NUME	NBR6		60	Work fields used in the
1198.00	CSR		MOVE \$NBR6	QXXDT			RPG program begin with \$
1199.00	C*						
1200.00	C*	Edit julian date	- Date Last Ship	p			
1201.00 1202.00	C* CSR	VDXDT	IFNE * BLANK				
1202.00	CSR	VDADT	MOVE QXXDT	#SIDAT	6		
1204.00	CSR		MOVE *BLANK	#EDAT	8		
1205.00	CSR		MOVEL'*SYSVAL	#FFMT	7		
1206.00	CSR		MOVEL'*JUL	"#TFMT	7		
1207.00	CSR		MOVEL'*NONE	#SKP	7		
1208.00	CSR		MOVEL' '	\$ERTST	1		
1209.00	CSR		CALL 'X0028	,		99	
1210.00	C*			Harman			
1211.00 1212.00	CSR CSR		PARM PARM	#SIDAT #EDAT			
1213.00	CSR		PARM	#FFMT			
1214.00	CSR		PARM	#TFMT			
1215.00	CSR		PARM	#SKP			
1216.00	CSR		PARM	\$KRTST			Work fields used in a copy
1217.00	CSR	[MOVEL#SIDAT	QXXDT			
1218.00	CSR	\$ERTST	IFEW '1'				module begin with #
1219.00	CRS		MOVE '1'	@MK,04			
1220.00	CSR		SETON			4593	
1221.00 1222.00	CSR CSR		END END				
1223.00							
1224.00	C*						
1225.00	C*	Scrub and edit -	Item ID				
1226.00	C*						
1227.00	CSR		MOVEAVDXIT	⊗NM			
1228.00	CSR		EXSR C0012				
1229.00	C*		MOUTH POUTH	Hogos			
1230.00	CSR		MOVE FOXIT	#DSPD			
1231.00 1232.00	CSR CSR		MOVE G@XIT EXSR C00151	#DATD			
1232.00			LADE COULDI				
1234.00	CSR		MOVE #NUMBR	QXXIT			
1235.00	C*			~			
1236.00	C*	Set default valu	e - Item ID				
1237.00	C*						
1238.00	CSR	VDXIT	IFEQ *BLANK				
1239.00	CSR	Daxit	ANDNE*BLANK	esm.			
1240.00 1241.00	CSR CSR		MOVEAD@XIT EXSR C0012	⊕NM			
1241.00	Con		ENDIN COULE				

9-62 JD Edwards World

1242.00	C*							
1243.00	CSR		MOVE F@XIT	#DSPD				
1244.00	CSR		MOVE G@XIT	#DATD				
1245.00	CSR		EXSR C00151					
1246.00	C*		MOVE #NUMBE	OVVID				
1247.00	CSR		MOVE #NUMBR END	QXXIT				
1248.00 1249.00	CSR C*		END					
1250.00	C*	Edit upper and	lower range - 1	Ttem ID				
1251.00	C*	Edic apper and	rower range	reem 1D				
1252.00	CSR	Laxit	IFNE *BLANK					
1253.00	CSR		MOVE *BLANK	X@XIT	15			
1254.00	CSR		MOVE '1'	\$ERTST	1			
1255.00	CSR		MOVELQXXIT	X@XIT				
1256.00	CSR	X@XIT	IFEG L@XIT					
1257.00	CSR	X@XIT	ANDLEU@XIT					
1258.00	CSR		MOVE ' '	\$ERTST				
1259.00	CSR		END					
1260.00	CSR	\$ERTST	IFEQ '1'					
1261.00	CSR		MOVE '1'	@ME,07				
1262.00	CSR		SETON			4193		
1263.00	CSR		END					
1264.00	CSR		END					
1265.00	C**							
1266.00	C*	0 mm/s 4 424	Commetter: -	man d				
1267.00	C*	Scrub and edit -	Quantity - On	напа				
1268.00	C*		MOTHERTON	03754				
1269.00	CSR		MOVEAVDXQT	@NM				
1270.00 1271.00	CSR C*		EXSR C0012					
1271.00	CSR		MOVE F@XQT	#DSPD				
1272.00	CSR		MOVE FWXQT	#DATD				
1274.00	CSR		EXSR C00151	#DAID				
1275.00	C*		EXBK COOIDI					
1276.00	CSR		MOVE #NUMBR	OXXOT				
1277.00	C*			Z-00g 2				
1278.00	C*	Set default valu	e - Quantity -	On Hand		_Default va	alue from Data Dictionary	
1279.00	C*						•	
1280.00	CSR	VDXQT	IFEQ *BLANK					
1281.00	CSR	DeXQT	ANDNE*BLANK					
1282.00	CSR	-	MOVEAD@XQT	@NM				
1283.00	CSR		EXSR C0012					
1284.00	C*							
1285.00	CSR		MOVE F@XQT	#DSPD				
1286.00	CSR		MOVE G@XQT	#DATD				
1287.00	CSR		EXSR C00151					
1288.00	C*		"					
1289.00	CSR		MOVE #NUMBR	QXXQT				
1290.00	CSR		END					
1291.00	C*	Edit .mman and 3	ON 10 21 22 22 2		n Tracal	1	Upper and lower ranges	
1292.00	C*	Edit upper and l	.ower range - Qu	mantity - O	n Hand		from Data Dictionary	
1293.00		TOVOR	TENE +DIAME					
1294.00	CSR	Laxqt	IFNE *BLANK	verom	15			
1295.00 1296.00	CSR CSR		MOVE *BLANK MOVE '1'	X@XQT \$ERTST	15 1			
1297.00	CSR		MOVELOXXOT	X@XQT	-			
1297.00	CSR	X@XQT	MOVELQXXQT IFEG L@XQT	Awagi				
1299.00	CSR	X@XQT	ANDLEU@XOT					
1300.00	CSR	vavă r	MOVE ' '	\$ERTST				
1301.00	CSR		END					
1302.00	CSR	\$ERTST	IFEQ '1'					
1303.00	CSR	7-1122	MOVE '1'	@MK,07				
1304.00	CSR		SETON	2.20,07		4693		
1305.00	CSR		END					
1306.00	CSR		END					
1307.00	C**							
1308.00	C*							
1309.00	C*	Scrub and edit -	Item Type					
1310.00	C*							
1311.00	CSR		MOVELVDXTY	QXXTY				
1312.00	C*			-				
1313.00	C*	Set default valu	e - Item Type					
1314.00	C*							
1315.00	CSR	QXXTY	IFEQ *BLANK					
1316.00	CSR	DGXTY	IFNE *BLANK					
1317.00	CSR		MOVEAD@XTY	@40				
1318.00	CSR		MOVEA@40	QXXTY				

1319.00	CSR	@40,1	IFEQ ''''		
1320.00	CSR		MOVE ' '	@40,1	
1321.00	CSR CSR	#м	Z-ADD2	#М	
1322.00 1323.00	CSR	#M @40,#M	DOWLE40		
1324.00	CSR		MOVE ' '	@40,#M	
1325.00	CSR		END	,	
1326.00	CSR		ADD 1	#м	
1327.00	CSR		END		
1328.00	CSR		MOVEA@40,2	QXXTY	
1329.00 1330.00	CSR		END END		
1330.00	CSR		END		
1332.00	c*		LIL		
1333.00	C*	Edit allowed va	lues - Item Type		
1334.00	C*				
1335.00	CSR	A@XTY	IFNE *BLANK		
1336.00	CSR	A@XTY	IFEQ '*NB'		
1337.00 1338.00	CSR CSR	QXXTY	ANDEQ*BLAMK	eMIZ 0.3	
1339.00	CSR		SETON	@MIK,03	4493
1340.00	CSR		ELSE		
1341.00	CSR		MOVEAA@XTY	@40	
1342.00	CSR		MOVE *HIVAL	@AV	
1343.00	CSR		EXSR C997		
1344.00	C*		MOTE / /	Ampmom 1	
1345.00 1346.00	CSR CSR		MOVE '' MOVE *BLANK	\$ERTST 1 \$WRKl0 10	
1345.00	CSR		MOVELQXXTY	\$WRK10 10	
1348.00	CSR	@AV,1	IFNE *HIVAL	4	
1349.00	CSR	\$WRK10	LOKPUP@AV		81
1350.00	CSR	*IN81	IFEQ 'O'		
1351.00	CSR		MOVE '1'	\$ERTST	
1352.00 1353.00	CSR CSR	\$ERTST	END IFEQ 'l'		
1354.00	C*	ŞEKISI	MOVE '1'	0*,07	
1355.00	CSR		SETON	0.,07	4493
1356.00	CSR		END		
1357.00	CSR		END		
1358.00	CSR		END		
1359.00	CSR		END		
1360.00	C*		1	m	
1361.00 1362.00	C*	Edit upper and	lower range - It	em Type	
1363.00	CSR	LQXTY	IFNE *BLANK		
1364.00	CSR		MOVE '1'	\$ERTST	
1365.00	CSR	QXXTY	IFGE L@XTY		
1366.00	CSR	QXXTY	ANDLEU@XXTY		
1367.00	CSR		MOVE ' '	\$ERTST	
1368.00	CSR	Ammon	END		
1369.00 1370.00	CSR CSR	\$ERTST	IFEQ '1' MOVE '1'	@MK,07	
1371.00	CSR		SETON	, . ,	4493
1372.00	CSR		END		
1373.00	CSR		END		
1374.00	C*	mail 5	D. 51 3 3	Th	
1375.00	C*	Edit from User	Defined Codes - :	rcem Type	
1376.00 1377.00	C* CSR	R@XTY	IFNE *BLANK		
1378.00	CSR	Vav. I I	CLEARZ0005U		
1379.00	C*		MOVELS@XTY	#usy	
1380.00	CSR		MOVE RGXTY	#URT	
1381.00	CSR		MOVE QXXTY	#UKR	
1382.00	CSR		CALL 'X0005'		81
1383.00	C*		PARM	T000577	
1384.00 1385.00	CSR CSR	#UERR	IFEQ '1'	100050	
1386.00	CSR	#OBILE	MOVE '1'	@MK,09	
1387.00	CSR		SETON		4493
1388.00	CSR		END		
1389.00	CSR		END		
1390.00					
1391.00 1392.00	C*	Sornh and adi+	- Item Unit of M	0391170	
1392.00	C*	Scrub and edit	- Item offic of M	capare	
1394.00	CSR		MOVELVDXUN	QXXUM	
1395.00	C*			-	

9-64 JD Edwards World

1396.00	C*	Set default value	- Item Unit of	Mesquire	
1397.00	C*	sec deladic value	e - Item Onit Or	. measure	
1398.00	CSR	QXXUM	IFEQ *BLANK		
1399.00	CSR	E!XUM	IFNE *BLANK		
	CSR	21201	MOVEAD@XUM	@40	
1401.00	CSR		MOVEA@40	QXXUM	
1402.00	CSR	@40,1	IFEQ '''	Kurron	
1403.00	CSR	440,1	MOVE ' '	@40,1	
1404.00	CSR		Z-ADD2	#M	
1405.00	CSR	#м	DOWLE40	#11	
1406.00	C*	#M @40,#M	IPEO ''''		
1407.00	CSR	wwo,#M	MOVE ' '	040 #107	
1408.00	CSR		END	@40,#MDT	
				#24	
1409.00	CSR		ADD 1	#м	
1410.00	CSR		END		
1411.00	CSR		MOVEA@40,2	QXXUM	
1412.00	CSR		END		
1413.00	CSR		END		
1414.00	CSR		END		
1415.00	C*				
1416.00	C*	Edit allowed valu	ues – Item Unit	of Measure	
1417.00	C*				
1418.00	CSR	AGXUM	IFNE *BLANK		
1419.00	CSR	A@XUM	IFEQ '*NB'		
1420.00	CSR	QXUM	ANDEQ*BLANK		
1421.00	CSR	~	MOVE '1'	@MK,03	
1422.00	CSR		SETON	,	4793
1423.00	CSR		ELSE		
1424.00	CSR		MOVEAA@XUM	@40	
1425.00	CSR		MOVE *HIVAL	@AV	
1426.00	CSR		EXSR C997	W214	
1427.00	C*				
				Annman a	
1428.00	CSR		MOVE ' '	\$ERTST 1	
1429.00	CSR		MOVE *BLANK	\$WRK10 10	
1430.00	CSR		MOVELQXXUM	\$WRK10	
1431.00 1432.00 1433.00 1434.00 1435.00 1436.00	CSR	@AV,1	IFNE *HIVAL		
1432.00	CSR	\$WRRK10	LOKUP@AV		81
1433.00	CSR	*IN8I	IFEQ '0'		
1434.00	CSR		MOVE '1'	\$ERTST	
1435.00	CSR		END		
1436.00	C*	\$ERTST	IFEQ '1'		
1437.00	CSR		MOVE '1'	@MK,07	
1438.00	CSR		SETON		4793
1439.00	CSR		END		
1440.00	CSR		END		
1441.00	CSR		END		
1442.00	CSR		END		
1443.00	C*		LAD		
1444.00	C*	Edit upper and lo	war range - The	m Unit of Moscows	
1445.00	C*	Edit upper and 10	ower range - Ite	m onic of Measure	=
		T OVER	TOWN ADJANCE		
1446.00	CSR	Laxun	IFNE *BLANK	é naman	
1447.00	CSR		MOVE '1'	\$ertst	
1448.00	CSR	QXXUM	IFGE L@XUM		
1449.00	CSR	OXTON	kno~uoxon		
1450.00	CSR		MOVE ' '	\$ERTST	
1451.00	CSR		END		
1401.00		\$ERTST	IFEQ '1'		
1453.00	C*		MOVE '1'	@MK,07	
1454.00	CSR		SETON	-	4793
1455.00	CSR		END		
1456.00	C*		END		
1457.00	C*				
1458.00	C*	Edit from User De	efined Codes - I	tem Unit of Meas	ure
1459.00	C*				
	CSR	R@XUM	IFNE *BLANK		
1460,00		2042001	ALTER DESIGNATION		
1460.00					
1460.00					

```
1473.00
1474.00
             C*
1475.00
             C*
                    Scrub and edit - Item Category Code 001
1476.00
             C*
                                       MOVELVDX001
             CSR
                                                          oxxoo1
1477.00
1478.00
             C*
1479.00
             C*
                   Set default value - Item Category Code 001
1480.00
             C*
             CSR
                                        IFEQ *BLANK
IFNE *BLANK
1481.00
                            OXX001
             CSR
1482.00
                            Dax001
                                        MOVEAD@X001
1483.00
             CSR
                                                          @40
1484.00
             CSR
                                        MOVEA@40
                                                          QXX001
                                       MOVE ''
1485.00
             CSR
                             @40,1
1486.00
             CSR
                                                          @40,1
1487.00
             CSR
                                        Z-ADD2
                                                          #м
1488.00
             CSR
                              #м
                                        DOWLE40
1489.00
             CSR
                            @40,#m
                                        IFEQ
                                                          @40,#M
1490.00
             CSR
                                        MOVE
1491.00
             CSR
                                        END
1492.00
                                        ADD
                                                          #м
             CSR
                                             1
1493.00
             CSR
                                        END
1494.00
             CSR
                                       MOVEA@40,2
                                                          OXX001
1495.00
             CSR
                                        END
1496.00
             CSR
                                        END
1497.00
             CSR
                                        END
             C*
1498.00
                   Edit allowed values - Item Category Code 001
1499.00
             C*
1500.00
                                        IFNE *BLANK
IFEO '*NB'
1501.00
             CSR
                            A@X001
1502.00
             CSR
                            A@X001
                                        ANDEQ*BLANK
MOVE '1'
1503.00
             CSR
                            OXX001
1504.00
             CSR
                                                          амк, оз
                                        SETON
                                                                           4893
1505.00
             CSR
1506.00
             CSR
                                        ELSE
1507.00
             CSR
                                        MOVEAA@X001
                                                          @40
1508.00
             CSR
                                        MOVE *HIVAL
                                                          @AV
1509.00
             CSR
                                        EXSR C997
1510.00
             C*
                                       MOVE ' '
1511.00
             CSR
                                                          $ERTST 1
1512.00
             CSR
                                                          SWRK10 10
                                        MOVELQXX001
1513.00
             CSR
                                                          $WRK10
1514.00
             CSR
                            @AV,1
                                        IFNE *HIVAL
1515.00
             CSR
                             $WRK10
                                        LOKUP@AV
                                                                             81
                                       MOVE '1'
1516.00
             CSR
                             *IN81
             CSR
                                                          $ERTST
1517.00
1518.00
             CSR
                                        END
                                        IPEQ '1'
1519.00
             CSR
                             SERTST
1520.00
             CSR
                                                          @MK,07
                                        SETON
                                                                           4893
1521.00
             CSR
1522.00
             CSR
                                        END
1523.00
             CSR
                                        END
1524.00
             CSR
                                        END
1525.00
             CSR
                                        END
1526.00
             C*
1527.00
             C*
                    Edit upper and lower range - Item Category Code 001
1528.00
             C*
                            L@X001
                                       IFNE *BLANK
MOVE '1'
1529.00
             CSR
1530.00
                                                          $ERTST
             CSR
                                        IFGE L@X001
1531.00
             CSR
                            QXX001
1532.00
             CSR
                            QXX001
                                        ANDLEU@X001
1533.00
             CSR
                                        MOVE ' '
                                                            $ERTST
1534.00
             CSR
                                        END
1535.00
             CSR
                            $ERTST
                                        IFEQ '1'
1536.00
             CSR
                                        MOVE '1'
                                                          @МК,07
1537.00
             CSR
                                        SETON
                                                                           4893
1538.00
             CSR
                                        END
                                        END
1539.00
             CSR
1540.00
             C*
1541.00
             C*
                    Edit from User Defined Codes - Item Category Code 001
1542.00
             C*
             CSR
                                        IFNE *BLANK
1543.00
                            R@X001
1544.00
                                        CLEARI0005U
             CSR
1545.00
             CSR
                                        MOVELS@X001
                                                          #USY
1546.00
             CSR
                                        MOVE R@X001
                                                          #URT
1547.00
             CSR
                                        MOVE QXX001
                                                          #UKY
                                       CALL 'X0005'
1548.00
             CSR
                                                                             81
1549.00
```

9-66 JD Edwards World

1550.00							
1551.00							
1551.00	1550.00	CSR		PARM	T0005U		
1551.00			#UERR		200000		
1551.00 CER			11 - 21111		@MX . 0.9		
1554.00					,	4893	
1555.00 CSR						4000	
1556.00							
1557.00							 _
1558.00							
1559.00			Samuh and adit -	Item Category C	ode nno		
1560.00 CER			Belub and edic -	rcem category c	Oue 002		
1561.00				MONTET APPY 0.02	OVVOOS		
1563.00				MOVEDVEROUZ	QAROUZ		
1563.00		_	Sot default waln	. Itom Catogori	v Codo non		
1564.00			sec deladic valu	e - Item Categor	y code 002		
1565.00			088003	TERO +DIAME			
1565.00 CSR							
1567.00			DWX002		0.40		
1568.00 CSR							
1599.00					QAA002		
1570.00			@40,1				
1571.00 CSR							
1572.00 CGR					#M		
1573.00 CGR							
1574.00 CGR			∞40, #M		"		
1575.00					240, #M		
1576.00 CER							
1577.00					#M		
1578.00 CSR							
1579.00					QXX002		
1580.00							
1581.00							
1582.00				END			
1583.00							
1584.00 CER			Edit allowed valu	es – Item Catego:	ry Code 002		
1595.00							
1586.00							
1587.00 CSR			A@X002				
1588.00 CSR	1586.00		QXX002	ANDEQ*BLANK			
1599.00	1587.00	CSR		MOVE '1'	@MIK,03		
1590.00	1588.00	CSR		SETON		4993	
1591.00	1589.00	CSR		ELSE			
1592.00	1590.00	CSR		MOVEAAX002	@40		
1593.00	1591.00	CSR		MOVE *HIVAL	@AV		
1594.00	1592.00	CSR		EXSR C997			
1595.00	1593.00	C*					
1596.00	1594.00	CSR		MOVE ' '	\$ERTST 1		
1597.00	1595.00	CSR		MOVE *BLANK	\$WRK10 10		
1598.00	1596.00	CSR		MOVELQXX002	\$WRK10		
1599.00	1597.00	CSR	@AV,l	IFNE *HIVAL			
1600.00	1598.00	CSR	\$WFRK10	LOKUP@AV		81	
1601.00	1599.00	CSR	*IN81	IFEQ '0'			
1601.00		CSR			\$ERTST		
1602.00	1601.00	CSR		END			
1603.00		CSR	\$ERTST	IFEQ '1'			
1604.00		CSR			@MK,07		
1605.00		CSR		SETON		4993	
1606.00	1605.00	CSR		END			
1607.00							
1608.00							
1609.00				END			
1610.00							
1611.00 C* 1612.00 CSR L@X002 IFPNE *BLANK 1613.00 CSR MOVE '1' \$ERTST 1614.00 CSR QXX002 IFGE L@X002 1615.00 CSR QXX002 ANDLEU@X002 1616.00 CSR MOVE ' \$ERTST 1617.00 CSR END 1618.00 CSR \$ERTST IFEQ '1' 1619.00 CSR MOVE '1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*		C*	Edit upper and	lower range - Ite	em Category Co	de 002	
1612.00			FE		21		
1613.00 CSR MOVE '1' \$ERTST 1614.00 CSR QXX002 IFGE L@XX002 1615.00 CSR QXX002 ANDLEU@XX002 1616.00 CSR MOVE ' \$ERTST 1617.00 CSR END 1618.00 CSR \$ERTST IFEQ '1' 1619.00 CSR MOVE '1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*			L@X002	IFNE *BLANK			
1614.00					\$ERTST		
1615.00 CSR QXX002 ANDLEU@X002 1616.00 CSR MOVE ' \$ERTST 1617.00 CSR END 1618.00 CSR \$ERTST IFEQ '1' 1619.00 CSR MOVE '1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*			QXX002				
1616.00 CSR MOVE'' \$ERTST 1617.00 CSR END 1618.00 CSR \$ERTST IFEQ'1' 1619.00 CSR MOVE'1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1622.00 CSR END 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*							
1617.00 CSR END 1618.00 CSR \$ERTST IFEQ '1' 1619.00 CSR MOVE '1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*			A		SERTST		
1618.00 CSR \$ERTST IFEQ '1' 1619.00 CSR MOVE '1' @MK,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*					,		
1619.00 CSR MOVE'1' @MX,07 1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*			\$ERTST				
1620.00 CSR SETON 4993 1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*			7.444.4		@MX.07		
1621.00 CSR END 1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*						4993	
1622.00 CSR END 1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*							
1623.00 C* 1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*							
1624.00 C* Edit from User Defined Codes - Item Category Code 002 1625.00 C*							
1625.00 C*			Edit from User	Defined Codes - 1	Item Category	Code 002	
			Edic From Oser	ocimea comes	rean category		
AND			E@X005	TENE *DLANK			
	2020100			Dannie			

1627.00	CSR		CLEARI0005U			
1628.00	CSR		MOVELS@X002	#USY		
1629.00	CSR		MOVE R@X002	#URT		
1630.00	CSR		MOVE QXX002	OUKr		
1631.00	CSR		CALL 'X0005'		81	
1632.00	C*					
1633.00	CSR		PARM	I0005U		
1634.00	CSR	#UERR	IFEQ '1'			
1635.00	CSR		MOVE '1'	@MK,09		
1636.00	CSR		SETON		4993	
1637.00	CSR		END			
1638.00	CSR		END			
1639.00						-
1640.00	C*					
1641.00	C*	Scrub and edit -	Item Category (Code 003		
1642.00	C*					
1643.00	CSR		MOVELVDX003	QXX003		
1	C*					
1645.00	C*	Set default value	 Item Category 	y Code 003		
1646.00	C*					
1647.00	CSR	ÖXX003	IFEQ *BLANK			
1648.00	CSR	DaX003	IFNE *BLANK			
1	CSR		MOVEAD@X003	@40		
1650.00	CSR		MOVEA@40	QXX003		
1651.00	CSR	@40,1	IPEQ ''''			
1652.00	CSR		MOVE ' '	@40,1		
1653.00	CSR		Z-ADD2	#м		
1654.00	CSR	#м	DOWLE40			
1655.00	CSR	@40,#M	IFEQ ''''			
1656.00	CSR		MOVE ' '	@40,#M		
1657.00	CSR		END			
1658.00	CSR		ADD 1	#м		
1659.00	CSR		END			
1660.00	CSR		MOVEA@40,2	QXX003		
1661.00	CSR		END			
1662.00	CSR		END			
1663.00	CSR		END			
1664.00	C*					
1665.00	C*	Edit allowed valu	es - Item Catego	ory Code 003		
1666.00	C*					
1667.00	CSR	A@X003	IFNE *BLANK			
1668.00	CSR	A@X003	IFEQ '*NB'			
1669.00	CSR	QXX003	ANDEQ*BLANK			
1670.00	CSR		MOVE '1'	@MK,03		
1671.00	CSR		SETON		5093	
1672.00	CSR		ELSE			
1673.00	CSR		MOVEAA@003	@40		
1674.00	CSR		MOVE *HIVAL	@AV		
1675.00	CSR		EXSR C997			
1676.00	C*					
1677.00	CSR		MOVE ' '	\$ERTST 1		
1678.00	CSR		MOVE *BLANK	\$WRK10 10		
1679.00	CSR		MOVELQXX003	\$wRK10		
1680.00	CSR	@AV,1	IFNE *HIVAL			
1681.00	CSR	\$WRK10	LOKUP@AV		81	
1682.00	CSR	*IN81	IFEQ '0'			
1683.00	CSR		MOVE '1'	\$ERTST		
1684.00	CSR		END	-		
1685.00	CSR	\$ERTST	IFEQ '1'			
1686.00	CSR		MOVE '1'	@MK,07		
1687.00	CSR		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 - Item	n Category Co	de 003	
1694.00	C*		_	- •		
1695.00	CSR	L@X003	IFNE *BLANK			
1696.00	CSR		MOVE '1'	\$ERTST		
1697.00	CSR	QXX003	IFGE L@X003	,		
1698.00	CSR	ØXX003	ANDLEU@X003			
1699.00	CSR		MOVE ' '	\$ERTST		
1700.00	CSR		END	,		
1701.00	CSR	\$ERTST	IFEQ '1'			
1702.00	CSR	Y	MOVE '1'	@MK,07		
1703.00	CSR		SETON		5093	

9-68 JD Edwards World

1704.00	CSR		END			
1705.00	CSR		END			
1705.00	C*		END			
1707.00	C*	Edit from User I	Defined Codes -	Item Category C	ode 003	
1708.00	C*	Edit IIom obel I	Jermed codeb	reem caregory c	042 003	
1709.00	CSR	R@X003	IFNE *BLANK			
1710.00	CSR		CLEARI 00 05U			
1711.00	CSR		MOVELS@X003	#USY		
1712.00	CSR		MOVE R@X003	#URT		
1713.00	CSR		MOAE ÖXX003	#UKY		
1714.00	CSR		CALL 'X0005'		81	
1715.00	C*					
1716.00	CSR		PARM	I0005U		
1717.00	CSR	#UERR	IFEQ '1'			
1718.00	CSR		MOVE '1'	@MK,09	5093	
1719.00 1720.00	CSR CSR		SETON END		5093	
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 value	e – Item Catego:	ry Code 004		
1729.00	C*					
1730.00	CSR	QXX004	IFEQ *BLANK			
1731.00	CSR	D@X004	IFNE *BLANK			
1732.00	CSR		MOVEAD@X004	@40 OYY004		
1733.00 1734.00	CSR	940.3	MOVEA@40	QXX004		
1735.00	CSR CSR	@40,1	MOVE '''	@40,1		
1736.00	CSR		Z-ADD2	#M		
1737.00	CSR	#M	DOWLE40	#141		
1738.00	CSR	@40,#M	IFEQ '''			
1739.00	CSR	, ,,,,,,	MOVE ' '	@40,#M		
1740.00	CSR		END	,		
1741.00	CSR		ADD 1	#м		
1742.00	CSR		END			
1743.00	CSR		MOVEA@40,2	QXX004		
1744.00	CSR		END			
1745.00	CSR		END			
1746.00	CSR		END			
1747.00	C*					
1748.00	C*	Edit allowed valu	ues - Item Cate	gory Code 004		
1749.00	C*	201004	TD10 +013111			
1750.00	CSR	A@X004	IFNE *BLANK			
1751.00 1752.00	CSR CSR	A@X004 QXX004	IFEQ '*NB' ANDEQ*BLANK			
1752.00	CSR	Kvvoor	MOVE '1'	@MK,03		
1754.00	CSR		SETON	with, 03	5193	
1755.00	CSR		ELSE			
1756.00	CSR		MOVEAA@X004	@40		
1757.00	CSR		MOVE *HIYAL	@AV		
1758.00	CSR		EXSR C997			
1759.00	C*					
1760.00	CSR		MOVE ' '	\$ERTST		
1761.00	CSR		MOVE *BLANK	\$WRK10 10		
1762.00	CSR		MOVELQXX004	\$WRK10		
1763.00	CSR	@AV,1	IFNE *HIVAL			
1764.00	CSR	\$WRK10	LOKUP@AV		81	
1765.00	CSR	*IN8l	IFEQ '0'	épppen		
1766.00	CSR		MOVE '1'	\$ERTST		
1767.00 1768.00	CSR CSR	\$ERTST	IFEQ '1'			
1769.00	CSR	QENIO1	MOVE '1'	@MK,07		
1770.00	CSR		SETON		5193	
1771.00	CSR		END			
1772.00	CSR		END			
1773.00	CSR		END			
1774.00	CSR		END			
1775.00	C*					
1776.00	C*	Edit upper and 1	lower range - I	tem Category Cod	e 004	
1777.00	C*					
1778.00	CSR	L@X004	IFNE *BLANK			
1779.00	CSR		MOVE '1'	\$ERTST		
1780.00	CSR	QXX004	IFGE L@X004			

1791.00							
1792.00 CER							
1793.00 CFR			QXX004				
1704.00 CSR \$RETST IFEQ '1' MMK,07 S193 S170M S193 S1					\$ERTST		
1785.00 CFR			A.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D				
1795.00 CFR END 5193 1798.00 CFR END 5197 1798.00 CFR END 5197 1798.00 CFR END 5197 1799.00 C			ŞERTST		OMY 07		
1797.00 CFR END 1798.00 CF END 1798.00 CF Edit from User Defined Codes - Item Category Code 004 1792.00 CFE REXO04 IPEM *SLANK 1793.00 CFE REXO04 IPEM *SLANK 1793.00 CFE MOVELBERKOO4 HUET 1794.00 CFE MOVELBERKOO4 HUET 1794.00 CFE MOVELBERKOO4 HUET 1797.00 CFE MOVELBERKOO4 HUET 1799.00 CFE MOVELBERKOO4 HUET 1799.00 CFE MOVELBERKOO4 HUET 1799.00 CFE HEQ 10 1799.00 CFE HEQ 10 1799.00 CFE HEQ 10 1800.00 CFE HEQ 10					enk, 07	E1 03	
1788.00 CFR 1789.00 CFR 1789.0						5193	
1789.00 C* 1799.00 C* 1791.00 C* 1791.00 C* 1791.00 CER REXEOR IPEN FELANK IPEN FE							
1790.00 CPR RAXOO4 IFRN *SLANK USEN STONE							
1791.00 CF		C*	Edit from User De	efined Codes - :	Item Category	Code 004	
1793.00 CER CLEARIOOSU GER MOVELESKOO4 WEST 1795.00 CER MOVELESKOO5 MOVELESKOO5 SI 1795.00 CER WEST 1795	1791.00	C*					
1794.00 CER	1792.00	CSR	R@X004	IFNE *BLANK			
1795.00 CER	1793.00	CSR		CLEARI0005U			
1795.00 CER	1794.00	CSR		MOVELS@X004	#USY		
1797.00 CER CRL 'XX005' 81 1798.00 C* FARM IO005U 1799.00 CER #UERR LFEQ '1' 1800.00 CER #UERR LFEQ '1' 1801.00 CER #UERR LFEQ '1' 1801.00 CER #UERR LFEQ '1' 1802.00 CER BED 1804.00 CER BED 1805.00 C* SCRUB and edit - Item Category Code 005 1807.00 C* SCRUB AND EDIT COMMON CORN CREATER AND CRE							
1798.00 C* 1799.00 CER FARR IDENT IPEC '1' 1801.00 CER FUERR IDEN FUERR IPEC '1' 1801.00 CER FUERR IDEN FUERR IDEN FUERR IDEN FUER					#UKY		
1799.00 CSR						81	
1800.00 CSR #UERR IFEQ '1' 1801.00 CSR SETON 5193 1802.00 CSR SETON 5193 1803.00 CSR END 5193 1804.00 CSR END 5193 1805.00 CSR END 5193 1806.00 C* SCRUB and edit - Item Category Code 005 1805.00 C* SCRUB and edit - Item Category Code 005 1805.00 C* SCRUB and edit - Item Category Code 005 1805.00 C* SCRUB AND SETON SE							
1801.00 CSR MOVE '1' SME, 09 1803.00 CSR SETON 5193 1804.00 CSR SETON 5193 1804.00 CSR SETON 5193 1805.00 C***** 1806.00 C****** 1806.00 C***** 1807.00 CSR SETON SUMD 1808.00 C***** 1808.00 C***** 1808.00 CSR MOVELVOXOOS QXX005 1808.00 CSR MOVERAWA QXX005 1813.00 CSR MOVERAWA QXX005 1813.00 CSR WOVERAWA QXX005 1823.00 CSR WOVERAWA QXX005 1823.00 CSR END 1824.00 CSR AXX005 IPRC 'NE' 1833.00 CSR AXX005 IPRC 'NE' 1833.00 CSR AXX005 IPRC 'NE' 1833.00 CSR END 1833.00 CSR END 1833.00 CSR EXER END 1833.00 CSR EXER END 1834.00 CSR EXER END 1835.00 CSR EXER END 1835.00 CSR EXER END 1836.00 CSR EXER END 1846.00 CSR EXER END 1846.00 CSR SMAKIO INVERSAWA SMERIO IN 1846.00 CSR SMAKIO INVERSAWA SMERIO INVERSAWA SMERIO IN 1846.00 CSR SMAKIO INVERSAWA SMERIO INVER			H		100050		
1802.00 CSR SETON 5193 1804.00 CSR END 1804.00 CSR END 1804.00 CSR END 1805.00 C*			#OBKK		OME OO		
1803.00 CER END 1805.00 C*					шик, 09	E1 03	
1804.00 CFR						27.33	
1805.00							
1805.00							
1807.00 C* Scrub and edit - Item Category Code 005 1809.00 CPR							
1809.00 CSR			Scrub and edit -	Item Category (Code 005		
1809.00 CSR							
1810.00 C* 1811.00 C* 1811.00 C* 1811.00 C* 1811.00 C* 1811.00 CSR QXXOOS IFBQ *BLANK 1811.00 CSR DWXOOS IFBQ *BLANK 1811.00 CSR MOVERAGE QXXOOS GAO 1811.00 CSR MOVERAGE QXXOOS 1818.10 CSR GAO, I IFBQ ''' 1818.00 CSR GAO, I IFBQ ''' 1819.00 CSR GAO, I IFBQ ''' 1820.00 CSR GAO, I IFBQ ''' 1822.00 CSR GAO, I IFBQ ''' 1822.00 CSR GAO, I IFBQ ''' 1823.00 CSR BADD I IM 1825.00 CSR BADD SADD SADD SADD SADD SADD SADD SADD				MOVELVOXOOS	QXX005		
1812.00 C\$ QXX005 IFRQ *BLANK 1814.00 CSE QXX005 IFRE *BLANK 1815.00 CSE DEXOCS IFRE *BLANK 1815.00 CSE DEXOCS IFRE *BLANK 1815.00 CSE MOVERDEXOCS @40 1817.00 CSE		C*			-		
1811.00	1811.00	C*	Set default value	- Item Category	y Code 005		
1014.00 CER		C*		-			
1015.00 CER	1813.00	CSR	QXX005	IFEQ *BLANK			
1015.00 CER	1814.00	CSR	Dexoos				
1817.00							
1818.00	1816.00	CSR			QXX005		
1819.00			@40,1				
1820.00 CSR							
1821.00					#М		
1822.00 CSR							
1823.00 CSR			⊕40, #M		#**		
1824.00					@40,#M		
1825.00					#24		
1825.00					#14		
1827.00					OVVOOR		
1928.00					QAAOOS		
1829.00							
1830.00 C* 1931.00 C* Edit allowed values - Item Category Code 005 1832.00 C* 1833.00 CSR A@XOO5 IFME *BLANK 1834.00 CSR A@XOO5 IFME *BLANK 1835.00 CSR QXXOO5 ANDEQ*BLANK 1836.00 CSR MOVE '1' @MK,03 1837.00 CSR SETON 5293 1838.00 CSR ELSE 1839.00 CSR MOVEAA@XOO5 @40 1840.00 CSR MOVEAA@XOO5 @40 1841.00 CSR MOVEAA@XOO5 @40 1841.00 CSR EXER C997 1842.00 C* MOVE *HIVAL @AV 1841.00 CSR EXER C997 1842.00 C* MOVE *BLANK \$WRK10 10 1845.00 CSR MOVE ' \$ERTST 1 1844.00 CSR MOVE ' \$ERTST 1 1844.00 CSR MOVE WILL \$WRK10 10 1845.00 CSR MOVE BLANK \$WRK10 10 1845.00 CSR MOVE *HIVAL \$WRK10 10 1846.00 CSR MOVE *HIVAL \$WRK10 10 1847.00 CSR MOVE *HIVAL \$WRK10 10 1845.00 CSR BAND MOVE *HIVAL \$WRK10 10 1845.00 CSR BAND MOVE *HIVAL \$WRK10 10 1845.00 CSR \$WRK10 LOXUP@AV 81 1855.00 CSR \$WRK10 LOXUP@AV 81 1855.00 CSR \$ERTST IFEQ '0' 1855.00 CSR \$ERTST IFEQ '1' 1855.00 CSR \$ERTST IFEQ '1' 1855.00 CSR \$ERTST IFEQ '1' 1855.00 CSR \$ERTST IFED '1' 1855.00 CSR BEND 1855.00 CSR END 1855.00 CSR END 1855.00 CSR END							
1931.00							
1832.00 C* 1833.00 CSR A&XOO5 IPNE *BLANK 1834.00 CSR A&XOO5 IPEQ '*NB' 1835.00 CSR QXXOO5 ANDEQ*BLANK 1836.00 CSR MOVE '1' GMK, 03 1838.00 CSR SETON 5293 1838.00 CSR MOVEAAGXOO5 G40 1840.00 CSR MOVEAAGXOO5 G40 1841.00 CSR EXSR C997 1842.00 C*			Edit allowed valu	ues - Item Cate	gory Code 005		
1834.00							
1835.00	1833.00	CSR	A@XOO5	IFNE *BLANK			
1836.00	1834.00	CSR	A@XOO5	IFEQ '*NB'			
1837.00			QXX005				
1838.00 CSR ELSE 1839.00 CSR MOVEAR&X005 &40 1840.00 CSR MOVE *HIVAL &AV 1841.00 CSR EXSR C997 1842.00 C* 1843.00 CSR MOVE *BLANK \$WRK10 10 1845.00 CSR MOVE *BLANK \$WRK10 10 1845.00 CSR MOVE *BLANK \$WRK10 10 1845.00 CSR WAV,1 IPNE *HIVAL 1847.00 CSR \$WRK10 LOKUP&AV 81 1848.00 CSR \$WRK10 LOKUP&AV 81 1849.00 CSR *IN81 IPQ '0' 1849.00 CSR MOVE '1' \$ERTST 1850.00 CSR END 1851.00 CSR \$ERTST IPQ '1' 1852.00 CSR \$ERTST IPQ '1' 1852.00 CSR \$ERTST IPQ '1' 1853.00 CSR \$ETON \$5293 1854.00 CSR END 1855.00 CSR END 1855.00 CSR END 1855.00 CSR END					@MK,03		
1839.00						5293	
1840.00							
1841.00							
1842.00 C* 1843.00 CSR MOVE ' \$ERTST 1 1844.00 CSR MOVE *BLANK \$WRK10 10 1845.00 CSR MOVELQXX005 \$WRK10 1846.00 CSR @AV,1 IPNE *HIVAL 1847.00 CSR \$WRK10 LOKUP@AV 81 1848.00 CSR *IN81 IPEQ '0' 1849.00 CSR MOVE '1' \$ERTST 1850.00 CSR END 1851.00 CSR \$ERTST IPEQ '1' 1852.00 CSR \$ERTST IPEQ '1' 1852.00 CSR SETON \$293 1854.00 CSR END 1853.00 CSR SETON \$293 1855.00 CSR END 1855.00 CSR END 1855.00 CSR END					@AV		
1843.00							
1844.00					éppman s		
1845.00 CSR							
1846.00 CSR							
1847.00 CSR \$WRK10 LOKUP@AV 81 1848.00 CSR *IN81 IPEQ '0' 1849.00 CSR MOVE '1' \$ERTST 1850.00 CSR END 1851.00 CSR \$ERTST IPEQ '1' 1852.00 CSR MOVE '1' @MX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END			@2V 1		q-maca o		
1848.00 CSR *IN81 IFEQ '0' 1849.00 CSR MOVE '1' \$ERTST 1850.00 CSR END 1851.00 CSR \$ERTST IFEQ '1' 1852.00 CSR MOVE '1' @MX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END						81	
1849.00 CSR MOVE '1' \$ERTST 1850.00 CSR END 1851.00 CSR \$ERTST IFEQ '1' 1852.00 CSR MOVE '1' @MX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END			•				
1850.00 CSR END 1851.00 CSR \$ERTST IFEQ '1' 1852.00 CSR MOVE '1' GMX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END					SERTST		
1851.00 CSR \$ERTST IFEQ '1' 1852.00 CSR MOVE '1' @MX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END					- -		
1852.00 CSR MOVE'1' @MX.07 1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END			\$ERTST				
1853.00 CSR SETON 5293 1854.00 CSR END 1855.00 CSR END 1856.00 CSR END			,		@MX.07		
1855.00 CSR END 1856.00 CSR END				SETON		5293	
1856.00 CSR END							
	1855.00	CSR		END			
1857.00 CSR END							
	1857.00	CSR		END			

9-70 JD Edwards World

```
1858.00
          C*
1859.00
                 Edit upper and lower range - Item Category Code 005
1860.00
           CSR
                                 IFNE *BLANK
1861.00
                      L@X005
                                 MOVE '1'
                                                $ERTST
1862.00
           CSR
1863.00
                      QXX005
                                 IFGE L@X005
1864.00
           CSR
                      QXX005
                                 ANDLEU@X005
1865.00
           CSR
                                 MOVE ' '
                                                SERTST
1866.00
           CSR
                                 END
                                 IFEQ '1'
MOVE '1'
1867.00
           CSR
                      $ERTST
1868.00
           CSR
                                                @MK,07
1869.00
           CSR
                                 SETON
                                                              5293
1870.00
           CSR
                                 END
1871.00
           CSR
                                 END
1872.00
1873.00
           C*
                Edit from User Defined Codes - Item Category Code 005
1874.00
           C*
           CSR
                                 IFNE *BLANK
1875.00
                      R@X005
1876.00
           CSR
                                 CLEARI 0005U
1877.00
           CSR
                                 MOVELS@X005
                                                #USY
1878.00
           CSR
                                 MOVE R@X005
                                                #URT
1879.00
           CSR
                                 MOVE QXX005
                                                #UKY
1880.00
           CSR
                                 CALL 'X0005'
                                                                81
1881.00
1882.00
           CSR
                                 PARM
                                                100050
1883.00
1884.00
                       #UERR
                                 IFEQ '1'
           CSR
          CSR
                                                @MK,09
1885.00
           CSR
                                 SETON
                                                              5293
1886.00
           CSR
                                 END
1887.00
           CSR
                                 END
1888.00
           C*---
1889.00
           CSR
                                 ENDSR
                        END005
                            ..............
1890.00
1891.00
           C*
                 Copy Common Subroutine - Currency - Translate Video Fields to Data Base
1892.00
           C*
1893.00
           C*
1894.00
           C/COPY JDECPY, C00151
           1895.00
1896.00
           C*
                 Copy Common Subroutine - Build Allowed Values Work Array
1897.00
           C*
1898.00
           C*
1899.00
           C/COPY JDECPY, C997
           1900.00
1901.00
           C*
          C*
                 Subroutine S010 - Update Data Base
1902.00
1903.00
           C*
1904.00
1905.00
           C*
                Processing: 1. Update data base file based upon valid
           C#
1906.00
                                action codes.
1907.00
           C*
1908.00
           CSR
                         S010
1909.00
           C*
          C*
1910.00
                If add action, add record.
1911.00
           C*
1912.00
1913.00
           CSR
                         *IN21
                                 IFEQ '1'
1914.00
           CSR
                                 WRITEI92801
                                                                99
1915.00
           CSR
                                 RND
          C*
1916.00
1917.00
                 If change action, update record.
1918.00
           C*
1919.00
           CSR
                        *IN22
                                 IFEQ '1'
1920.00
           CSR
                                 UPDATI92801
                                                                99
1921.00
           CSR
                                 END
1922.00
           C*
1923.00
           C*
                 If delete action, delete record.
          C*
1924.00
                                 IFEO '1'
1925.00
          CSR
                         *IN23
1926.00
           CSR
                                 DELETI92801
                                                                99
1927.00
           CSR
1928.00
          C*
```

1929.00 1930.00	C*	Clear data field :	for next transact	ion			rces clear of everything before ocessing next record. Simulate
1931.00	CSR		MOVE #PCLR	@@AID			
1932.00	CSR		EXSR SOO1	WWID	I		er pressing the <i>Clear Screen</i>
1933.00	C*					fun	iction key.
	CSR	END010	ENDSR				
1934.00							*****
1935.00		******					
1935.00	C*				_		Retrieves all of the Data
1936.00		SUBROUTINE S998 -	Load dictionary	parameters	3.		Dictionary editing parameters
1937.00	C*				-		
1938.00	C*						for necessary data items used
1939.00	CSR	8998	BEGSR				in the program and moves the
1940.00	C*						information into constant field
1941.00	C*						mormation into constant net
	C*						
1942.00							
1943.00	C*						
1944.00	C*	Dictionary para	meters for - Cost	Center			
1945.00	C*						
1946.00.	CSR		MOVE *BLANK	FRDTAI			
1947.00	CSR		MOVEL'XCC'	FRDTAI			
1948.00	CSR		CALL 'X9800E'			81	——Data Dictionary
1949.00	C*					01	
				T0000F			file server
1950.00	CSR		PARM	I9800E			
1951.00	CSR	FRERR	IFRQ '0'				
1952.00	CSR		MOVE FRDSCR	B@XCC	40		
1953.00	CSR		MOVE FRDTAT	T@XCC	1		
1954.00	CSR		MOVE FREC	E@XCC	1		
1955.00	CSR		MOVE FRDTAS	C@XCC	50		
	CSR		MOVE FROTAD	G@XCC	20		
1956.00							
1957.00	CSR		MOVE FRCDEC	F@XCC	1		
1958.00	CSR		MOVELFRSY	S@XCC	4		
1959.00	CSR		MOVE FRRT	R@XCC	2		
1960.00	CSR		MOVE FROVAL	D@XCC	40		
1961.00	CSR		MOVE FRVAL	A@XCC	40		
1962.00	CSR		MOVE FRLVAL	Lexcc	40		
1963.00	CSR		MOVE FRUVAL	U@XCC	40		
1964.00	CSR		MOVE FREDWR	W@XCC	30		
1965.00	CSR		MOVE FRLR	J@XCC	1		
1966.00	CSR		MOVE FRNNIX	N@XCC	20		
1967.00	CSR		Z-ADD1	#@XCC	110		
					110		
1968.00	CSR		MOVE Paxoc	#A			
1969.00	CSR		DO #A				
1970.00	CSR		MULT 10	#@XCC			
1971.00	CSR		END				
1972.00	CSR		END				
1973.00	C*						
	C*						
1974.00		=: -+:					
1975.00	C*	Dictionary para	meters for - Desc	ription			
1976.00	C*						
1977.00	CSR		MOVE *BLANK	FRDTAI			
1978.00	CSR		MOVEL'XDS'	FRDTAI			
1979.00	CSR		CALL 'X9800E'			81	
1980.00	C*		CALL ASOUGE				
				T0000			
1981.00	CSR		PARM	19800E			
		FRERR	IFEQ '0'				
1982.00	CSR	FICEICIC					
	CSR	Pichicic	MOVE FRDSCR	B@XDS	40		
1982.00		Present	MOVE FRDSCR MOVE FRDTAT	B@XDS T@XDS	10		
1982.00 1983.00 1984.00	CSR CSR	Preside	MOVE FRDTAT	T@XDS	1		
1982.00 1983.00 1984.00 1985.00	CSR CSR CSR	France	MOVE FRDTAT MOVE FREC	T@XDS E@XDS	1		
1982.00 1983.00 1984.00 1985.00 1986.00	CSR CSR CSR CSR	Picaci	MOVE FREC MOVE FREC MOVE FROTAS	T@XDS E@XDS C@XDS	1 1 50		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00	CSR CSR CSR CSR	Fichide	MOVE FREC MOVE FREC MOVE FRETAS MOVE FRETAD	T@XDS E@XDS C@XDS G@XDS	1 1 50 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00	CSR CSR CSR CSR CSR	Picture	MOVE FRECTAT MOVE FRECTAS MOVE FRETAD MOVE FRETEC	Texds Eexds Cexds Gexds Fexds	1 50 20 1		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00	CSR CSR CSR CSR	PALICA	MOVE FREC MOVE FREC MOVE FRETAS MOVE FRETAD	T@XDS E@XDS C@XDS G@XDS	1 1 50 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00	CSR CSR CSR CSR CSR	PALICE	MOVE FRECTAT MOVE FRECTAS MOVE FRETAD MOVE FRETEC	Texds Eexds Cexds Gexds Fexds	1 50 20 1		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00	CSR CSR CSR CSR CSR CSR CSR	PALICE	MOVE FRDTAT MOVE FREC MOVE FRDTAS MOVE FRDTAD MOVE FRCDEC MOVELLFRSY MOVE FRRT	TeXDS EEXDS CEXDS GEXDS FEXDS FEXDS REXDS	1 50 20 1		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00 1990.00	CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE FRDVAL	T@XDS E@XDS C@XDS G@XDS F@XDS S@XDS R@XDS R@XDS	1 50 20 1 4 2		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00 1990.00 1991.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLPRSY MOVE FRRT MOVE PRDVAL MOVE PRVAL	T@XDS E@XDS C@XDS G@XDS G@XDS S@XDS S@XDS R@XDS D@XDS	1 50 20 1 4 2 40 40		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00 1990.00 1991.00 1992.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRCTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PRDVAL MOVE FRVAL MOVE FRVAL	T@XDS E@XDS C@XDS G@XXDS G@XXDS F@XXDS R@XXDS R@XXDS D@XXDS A@XXDS	1 50 20 1 4 2 40 40		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1992.00 1993.00 1993.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLPRSY MOVE FRRT MOVE PRDVAL MOVE PRVAL	T@XDS E@XDS C@XDS G@XDS G@XDS S@XDS S@XDS R@XDS D@XDS	1 50 20 1 4 2 40 40		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1989.00 1990.00 1991.00 1992.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRCTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PRDVAL MOVE FRVAL MOVE FRVAL	T@XDS E@XDS C@XDS G@XXDS G@XXDS F@XXDS R@XXDS R@XXDS D@XXDS A@XXDS	1 50 20 1 4 2 40 40		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1992.00 1993.00 1993.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PROVAL MOVE FRVAL MOVE PRLVAL MOVE PRLVAL	TexDS EexDS CexDS GexDS FexDS FexDS RexDS RexDS LexDS LexDS	1 50 20 1 4 2 40 40 40 40		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1989.00 1990.00 1991.00 1992.00 1993.00 1994.00 1995.00 1996.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PRDVAL MOVE PRLVAL MOVE PRLVAL MOVE PRLVAL MOVE PREDWR MOVE PREDWR MOVE FREDWR	TeXDS ESXDS CeXDS GSXDS FSXDS FSXDS FSXDS ASXDS LSXDS	1 50 20 1 4 2 40 40 40 40 30		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1999.00 1991.00 1992.00 1993.00 1994.00 1995.00 1995.00 1995.00 1997.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	PALICI	MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PROVAL MOVE PRUVAL MOVE PRLVAL MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE PRENNIX	TeXDS EAXDS COXDS GAXDS FAXDS FAXDS RAXDS DAXDS LAXDS LAXDS UAXDS VAXDS NAXDS NAXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1992.00 1993.00 1995.00 1995.00 1996.00 1998.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE FREDVAL MOVE FREDVAL MOVE PREDVAL MOVE PREDWR MOVE PREDWR MOVE FREDWR MOVE PRENNIX Z-LDD1	T@XDS E@XDS C@XDS G@XDS F@XDS F@XDS D@XDS A@XDS D@XDS L@XDS U@XDS W@XDS J@XDS #@XDS	1 50 20 1 4 2 40 40 40 40 30		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1999.00 1991.00 1992.00 1993.00 1994.00 1995.00 1995.00 1995.00 1997.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PROVAL MOVE PRUVAL MOVE PRLVAL MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE PRENNIX	TeXDS EAXDS COXDS GAXDS FAXDS FAXDS RAXDS DAXDS LAXDS LAXDS UAXDS VAXDS NAXDS NAXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1992.00 1993.00 1995.00 1995.00 1996.00 1998.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE FREDVAL MOVE FREDVAL MOVE PREDVAL MOVE PREDWR MOVE PREDWR MOVE FREDWR MOVE PRENNIX Z-LDD1	T@XDS E@XDS C@XDS G@XDS F@XDS F@XDS D@XDS A@XDS D@XDS L@XDS U@XDS W@XDS J@XDS #@XDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1985.00 1986.00 1987.00 1989.00 1990.00 1991.00 1993.00 1993.00 1994.00 1995.00 1996.00 1997.00 1998.00 1999.00 1999.00	CSR		MOVE PRDTAT MOVE PREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE FREVAL MOVE FRUAL MOVE PRUVAL MOVE PREDMR MOVE PREDMR MOVE PREDMR MOVE PREDMR MOVE PREDMR MOVE PRINIX Z-IDD1 MOVE PAXDS D0 #A	TeXDS ESXDS CeXDS GSXDS FSXDS FSXDS PSXDS ASXDS LSXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1988.00 1999.00 1991.00 1991.00 1992.00 1995.00 1995.00 1995.00 1995.00 1997.00 1998.00 1999.00 2000.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PRDVAL MOVE FRVAL MOVE PRUVAL MOVE PRUVAL MOVE PREDWR MOVE PREDWR MOVE FRER MOVE FREN MOVE FREN MOVE PROVEL MOVE PROVE MOVE P	T@XDS E@XDS C@XDS G@XDS F@XDS F@XDS D@XDS A@XDS D@XDS L@XDS U@XDS W@XDS J@XDS #@XDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1989.00 1999.00 1991.00 1993.00 1994.00 1995.00 1996.00 1997.00 1998.00 1999.00 2000.00 2001.00 2002.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELFRSY MOVE FREDVAL MOVE FREDVAL MOVE FREDVAL MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE FREDWR DO #A MULT 10 END	TeXDS ESXDS CeXDS GSXDS FSXDS FSXDS PSXDS ASXDS LSXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1989.00 1990.00 1991.00 1993.00 1993.00 1994.00 1995.00 1996.00 1997.00 1998.00 1999.00 2000.00 2000.00 2002.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELLFRSY MOVE FRRT MOVE PRDVAL MOVE FRVAL MOVE PRUVAL MOVE PRUVAL MOVE PREDWR MOVE PREDWR MOVE FRER MOVE FREN MOVE FREN MOVE PROVEL MOVE PROVE MOVE P	TeXDS ESXDS CeXDS GSXDS FSXDS FSXDS PSXDS ASXDS LSXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		
1982.00 1983.00 1984.00 1985.00 1986.00 1987.00 1989.00 1999.00 1991.00 1993.00 1994.00 1995.00 1996.00 1997.00 1998.00 1999.00 2000.00 2001.00 2002.00	CSR		MOVE PRDTAT MOVE FREC MOVE PRDTAS MOVE PRDTAD MOVE PRCDEC MOVELFRSY MOVE FREDVAL MOVE FREDVAL MOVE FREDVAL MOVE PREDWR MOVE PREDWR MOVE PREDWR MOVE FREDWR DO #A MULT 10 END	TeXDS ESXDS CeXDS GSXDS FSXDS FSXDS PSXDS ASXDS LSXDS	1 1 50 20 1 4 2 40 40 40 40 30 1 20		

9-72 JD Edwards World

2006.00	C*	Dictionary par	ameters for - Date	Last Sh	ip	
2007.00	C*					
2008.00.	CSR		MOVE *BLANK	FRDTAI		
2009.00	CSR		MOVEL'XDT'	FRDTAI		
2010.00	CSR		CALL 'X9800E'			81
2011.00	C*					
2012.00	CSR		PARM	19800E		
2013.00	CSR	FRERR	IFRQ '0'			
2014.00	CSR		MOVE FRDSCR	B@XDT	40	
2015.00	CSR		MOVE FROTAT	TexpT	1	
2016.00	CSR		MOVE FREC	E@XDT	1	
2017.00	CSR		MOVE FROTAS	CaxDT	50	
	CSR					
2018.00			MOVE FROTAD	G@XD/T	20	
2019.00	CSR		MOVE FRCDEC	FaxDT	1	
2020.00	CSR		MOVELFRSY	S@XDT	4	
2021.00	CSR		MOVE FRRT	R@XDT	2	
2022.00	CSR		MOVE FRDVAL	DaxDT	40	
2023.00	CSR		MOVE FRVAL	A@XDT	40	
2024.00	CSR		MOVE FRLVAL	LexDT	4.0	
2025.00	CSR		MOVE FRUVAL	UaxDT	40	
2026.00	CSR		MOVE FREDWR	WaXDT	3.0	
2027.00	CSR		MOVE FRLR	Jaxot	1	
2028.00	CSR		MOVE FRNNIX	NaxDT	20	
2029.00	CSR		Z-ADD1	#@XDT	110	
2030.00	CSR		MOVE F@XDT	#A		
2030.00	CSR		DO #A	π		
2032.00	CSR			#@XDT		
			MULT 10	#SYDI		
2033.00	CSR		END			
2034.00	CSR		END			
2035.00						
2036.00	C*					
2037.00	C*	Dictionary par	ameters for - Item	ID		
2038.00	C*					
2039.00	CSR		MOVE *BLANK	FRDTAI		
2040.00	CSR		MOVEL'XIT'	FRDTAI		
2041.00	CSR		CALL 'X9800E'			81
2042.00	C*					
2043.00	CSR		PARM	19800E		
2044.00	CSR	FRERR	IFEO 'O'			
2045.00	CSR		MOVE FRDSCR	B@XIT	40	
2046.00	CSR		MOVE FROTAT	Texit	1	
2047.00	CSR		MOVE FREC	E@XIT	1	
2048.00	CSR		MOVE FRDTAS	COXIT	50 20	
2049.00	CSR		MOVE FRDTAD	Gaxit		
2050.00	CSR		MOVE FRCDEC	Paxit	1	
2051.00	CSR		MOVELLFRSY	Saxit	4	
2052.00	CSR		MOVE FRRT	R@XIT	2	
2053.00	CSR		MOVE FRDVAL	fT	40	
2054.00	CSR					
			MOVE FRVAL	A@XIT	40	
2055.00	CSR		MOVE FRVAL MOVE FRLVAL	A@XIT L@XIT	40 40	
2055.00 2056.00						
	CSR		MOVE FRLVAL	Lexit	40	
2056.00	CSR CSR		MOVE FRLVAL MOVE FRUVAL	L@XIT U@XIT	40 40	
2056.00 2057.00	CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR	Laxit Uaxit Waxit	40 40 30	
2056.00 2057.00 2058.00	CSR CSR CSR CSR		MOVE FRUVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR	Laxit Uaxit Waxit Jaxit	40 40 30 1	
2056.00 2057.00 2058.00 2059.00 2060.00	CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00	CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FREDWR MOVE FREDWR MOVE FRINIX Z-1DD1 MOVE F@XZT	L@XIT W@XIT W@XIT J@XIT N@XIT	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00	CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FREDWR MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE F&XZT DO #A	Lexit Wexit Wexit Jexit Nexit #exit #A	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00	CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE F@XZT DO #A MULT 10	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END	Lexit Wexit Wexit Jexit Nexit #exit #A	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE F@XZT DO #A MULT 10	Lexit Wexit Wexit Jexit Nexit #exit #A	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END	Lexit Wexit Wexit Jexit Nexit #exit #A	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END	Lexit Wexit Wexit Jexit Nexit #exit #A	40 40 30 1 20	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREN MOVE FRNNIX Z-1DD1 MOVE F@XZT DO #A MULT 10 END	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT #A	40 40 30 1 20 110	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT #A	40 40 30 1 20 110	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRNNIX Z-1DD1 MOVE F@XZT DO #A MULT 10 END END END Ameters for - gnan	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT #A #@XIT	40 40 30 1 20 110	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRINIX Z-1DD1 MOVE FEXT DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT	40 40 30 1 20 110	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END END ammeters for - gnan MOVE *BLANK MOVEL'XQT'	L@XIT U@XIT W@XIT J@XIT N@XIT #@XIT #A #@XIT	40 40 30 1 20 110	
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRLR MOVE FRINIX Z-1DD1 MOVE FEXT DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END END ammeters for - gnan MOVE *BLANK MOVEL'XQT'	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2064.00 2065.00 2066.00 	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END END ammeters for - gnan MOVE *BLANK MOVEL'XQT'	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2063.00 2064.00 2065.00 2066.00 2067.00 2068.00 2069.00 2070.00 2071.00 2072.00	CSR		MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FRENNIX Z-1DD1 MOVE FENNIX DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E'	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT tity On 1	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2063.00 2064.00 2065.00 2066.00 	CSR CSR CSR CSR CSR CSR CSR CSR CSR C*	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWXZT DO #A MULT 10 END END Ammeters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM	L@XIT U@XIT W@XIT J@XIT N@XIT #AXIT #A #GXIT tity On 1	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 2067.00 2068.00 2070.00 2071.00 2072.00 2073.00 2074.00 2075.00 2076.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FAXZT DO #A MULT 10 END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0'	L@XIT U@XIT W@XIT M@XIT #@XIT #@XIT #A #@XIT tity On : PRDTAI PRDTAI PRDTAI 19800E B@XOT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2063.00 2064.00 2065.00 2066.00 2067.00 2068.00 2069.00 2071.00 2072.00 2073.00 2074.00 2075.00 2076.00 2076.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENT Z-1DD1 MOVE FEXT DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK MOVE/XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDSCR	L@XIT U@XIT W@XIT M@XIT #AXIT #A #GXIT tity On 1 PRDTAI PRDTAI 19800E B@XOT T@XQT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWEXZT DO #A MULT 10 END END Ammeters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDSCR MOVE FRDTAT MOVE FREC	L@XIT U@XIT W@XIT W@XIT N@XIT #@XIT #A #@XIT tity On 1 PRDTAI PRDTAI 19800E B@XOT T@XQT E@XQT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 2067.00 2068.00 2070.00 2071.00 2072.00 2073.00 2074.00 2075.00 2076.00 2077.00 2077.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENT MOVE FRENT MOVE FANT MOVE FAXZT DO #A MULT 10 END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDSCR MOVE FRECC MOVE FRETAS	L@XIT U@XIT W@XIT W@XIT M@XIT #@XIT #A #@XIT tity On : PRDTAI PRDTAI 19800E B@XOT T@XQT E@XQT C@XQT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 2067.00 2068.00 2070.00 2071.00 2071.00 2073.00 2074.00 2075.00 2076.00 2077.00 2077.00 2077.00 2077.00 2077.00 2077.00 2078.00 2079.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENT Z-IDDI MOVE FEXZT DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDTAT MOVE FRDTAT MOVE FRDTAS MOVE FRDTAD	L@XIT U@XIT W@XIT W@XIT N@XIT #AXIT #A #@XIT TOTAL ### L9800E B@XOT T@XQT D@XQT C@XQT G@XQT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 2067.00 2068.00 2070.00 2071.00 2072.00 2073.00 2074.00 2075.00 2075.00 2077.00 2078.00 2079.00 2079.00 2079.00 2079.00 2079.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENTIX Z-1DD1 MOVE FWEXZT DO #A MULT 10 END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDTAT MOVE FRDTAT MOVE FRDTAD MOVE FRCDEC	Lexit Uaxit Wexit Wexit Jexit Naxit #A #A #A #A tity On : PRDTAI PRDTAI 19800E BEXOT TEXOT EEXOT CEXOT GEXOT GEXOT FEXOT FEXOT FEXOT FEXOT FEXOT FEXOT	40 40 30 1 20 110	81
2056.00 2057.00 2058.00 2059.00 2060.00 2061.00 2062.00 2063.00 2065.00 2066.00 2067.00 2068.00 2070.00 2071.00 2071.00 2073.00 2074.00 2075.00 2076.00 2077.00 2077.00 2077.00 2077.00 2077.00 2077.00 2078.00 2079.00	CSR	Dictionary para	MOVE FRLVAL MOVE FRUVAL MOVE FREDWR MOVE FREDWR MOVE FRENT Z-IDDI MOVE FEXZT DO #A MULT 10 END END END Ameters for - gnan MOVE *BLANK MOVEL'XQT' CALL 'X9800E' PARM IFEQ '0' MOVE FRDTAT MOVE FRDTAT MOVE FRDTAS MOVE FRDTAD	L@XIT U@XIT W@XIT W@XIT N@XIT #AXIT #A #@XIT TOTAL ### L9800E B@XOT T@XQT D@XQT C@XQT G@XQT	40 40 30 1 20 110	81

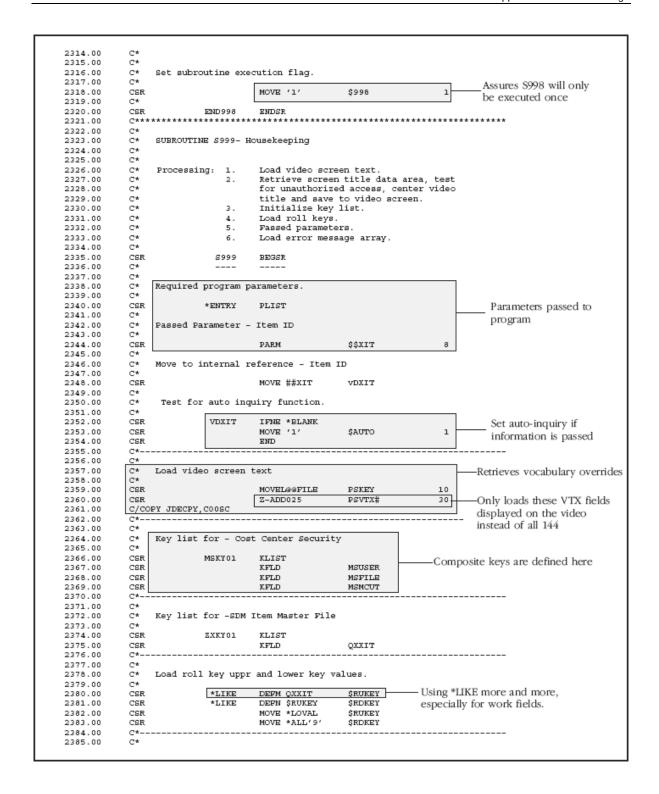
1						
2083.00	CSR		MOVE FRRT	RXQT	. 2	
2054.00	CSR		MOVE FRDVAL	DexQT	40	
2085.00	CSR		MOVE FRVAL	A@XQT	40	
2086.00	CSR		MOVE FRLVAL	LexQT	40	
2087.00	CSR		MOVE FRUVAL	USXQT	40	
2088.00	CSR		MOVE FREDWR	W@XQT	30	
2089.00	CSR		MOVE FRLR	Jexqt	1	
2090.00	CSR		MOVE FRNNIX	N@XQT	20	
2091.00	CSR		Z-ADD1	#@XQT	110	
2092.00	CSR		MOVE FRXQT	#A		
2093.00	CSR		DO #A			
2094.00	CSR		MULT 10	#@XQT		
2095.00	CSR		END			
2096.00	CSR		END			
2097.00	C*					
2098.00	C*					
	C*	Dictionary para	meters for - Item	Type		
2100.00	C*			-11		
2101.00	CSR		MOVE *BLANK	FRDTAI		
2102.00	CSR		MOVEL'XTY'	FRDTAI		
2103.00	CSR		CALL 'X9800E'	ribini		81
2104.00	C*					
	CSR		PARM	I9800E		
	CSR	FRERR	IFEQ '0'	TOOUR		
		FRERK		B@XTY	40	
2107.00	CSR		MOVE FRDSCR MOVE FRDTAT			
2108.00	CSR			T@XTY	1	
2109.00	CSR		MOVE FREC	E®xTY	1	
2110.00	CSR		MOVE FRDTAS	C@XTY	50	
2111.00	CSR		MOVE FROTAT	G@XTY	20	
2112.00	CSR		MOVE FRCDEC	F@XTY	1	
2113.00	CSR		MOVELPRSY	S@XTY	4	
2114.00	CSR		MOVE FRRT	R®XTY	2	
2115.00	CSR		MOVE FRDVAL	D@XTY	40	
2116.00	CSR		MOVE FRVAL	A@XTY	40	
2117.00	CSR		MOVE FRLVAL	L®XTY	40	
2118.00	CSR		MOVE PRUVAL	U@XTY	40	
2119.00	CSR		MOVE FREDWR	W@XTY	30	
2120.00	CSR		MOVE FRLR	J@XTY	1	
2121.00	CSR		MOVE FRNNIX	N@XTY	20	
2122.00	CSR		Z-ADD1	#@XTY	110	
	CSR		MOVE FEXTY	#A		
	CSR		DO #A			
2125.00	CSR		MULT 10	#@XTY		
	CSR		END	11-2222		
			EMD			
2127.00	CSR		END			
2127.00 2128.00	CSR C*					
2127.00 2128.00	CSR C*					
2127.00 2128.00 2129.00	CSR C* C*			Unit of 1		
2127.00 2128.00 2129.00 2130.00	CSR C* C* C*			Unit of 1	Measure	
2127.00 2128.00 2129.00 2130.00 2131.00	CSR C* C* C* C*		meters for - Item		Measure	
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00	CSR C* C* C* C* C* CSR		meters for - Item MOVE *BLANK	FRDTAI	Measure	
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00	CSR C* C* C* C* CSR CSR		meters for - Item MOVE *BLANK MOVEL'XUM'		Measure	23
2127.00 2128.00 	CSR C* C* C* C* CSR CSR CSR		meters for - Item MOVE *BLANK MOVEL'XUM' CALL'X9800E'	FRDTAI	Measure	81
2127.00 2128.00 	CSR C* C* C* C* CSR CSR CSR CSR CSR		meters for - Item MOVE *BLANK MOVEL'XUM' CALL'X9800E'	FRDTAI FRDTAI	Measure	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2134.00 2134.00 2135.00 2136.00	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	FRDTAI	Measure	81
2127.00 2128.00 	CSR C* C* C* C* CSR CSR CSR CSR CSR CSR		meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	FRDTAI FRDTAI 19800E		81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E' PARM IPEQ '0' MOVE PRDSCR	FRDTAI FRDTAI 19800E B@XUM	40	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR C* CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E' PARM IFEQ '0' MOVE PRDSCR MOVE PRDTAT	PRDTAI PRDTAI 19800E B@XUM T@XUM	40 1	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E' PARM IPEQ '0' MOVE PRDSCR	FRDTAI FRDTAI 19800E B@XUM T@XUM E@XUM	40	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR C* CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E' PARM IFEQ '0' MOVE PRDSCR MOVE PRDTAT	PRDTAI PRDTAI 19800E B@XUM T@XUM	40 1	81
2127.00 2128.00 	CSR C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E' PARM IFEQ '0' MOVE PRDSCR MOVE PRDTAT MOVE FREC	FRDTAI FRDTAI 19800E B@XUM T@XUM E@XUM	40 1 1	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM E@XUM C@XUM	40 1 1 50	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	FRDTAI FRDTAI 19800E BOXUM TOXUM EOXUM COXUM GOXUM	40 1 1 50 20	81
2127.00 2128.00 	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E'	PRDTAI PRDTAI 19800E BGXUM TGXUM EGXUM CGXUM GGXUM FGXUM	40 1 1 50 20 1	81
2127.00 2128.00 	CSR C* C* C* C* CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM E@XUM C@XUM G@XUM F@XUM S@XUM	40 1 1 50 20 1 4	81
2127.00 2128.00 	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM S@XUM	40 1 1 50 20 1 4	81
2127.00 2128.00 	CSR C* C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM E@XUM G@XUM F@XUM F@XUM R@XUM	40 1 1 50 20 1 4 2	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00 2144.00 2145.00 2146.00 2146.00 2147.00 2148.00	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM R@XUM L@XUM L@XUM	40 1 1 50 20 1 4 2 40 40	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2140.00 2141.00 2142.00 2143.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00	CSR C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM S@XUM P@XUM D@XUM L@XUM L@XUM U@XUM	40 1 150 20 1 4 2 40 40 40 40	81
2127.00 2128.00 	CSR C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM R@XUM A@XUM L@XUM U@XUM	40 1 1 50 20 1 4 40 40 40 40 30	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2142.00 2143.00 2144.00 2144.00 2144.00 2144.00 2145.00 2146.00 2147.00 2148.00 2149.00 2150.00 2151.00	CSR C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM S@XUM R@XUM R@XUM R@XUM L@XUM L@XUM U@XUM U@XUM U@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2145.00 2146.00 2147.00 2148.00 2149.00 2150.00 2151.00	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM N@XUM N@XUM	40 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2140.00 2141.00 2141.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2144.00 2145.00 2146.00 2147.00 2148.00 2149.00 2149.00 2150.00 2151.00 2152.00	CSR C* C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM G@XUM G@XUM P@XUM S@XUM D@XUM L@XUM L@XUM L@XUM W@XUM W@XUM W@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1	81
2127.00 2128.00	CSR C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM N@XUM N@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2139.00 2140.00 2141.00 2142.00 2143.00 2144.00 2144.00 2144.00 2145.00 2146.00 2147.00 2148.00 2149.00 2150.00 2151.00 2151.00 2153.00 2154.00	CSR C* C* C* C* CSR	Dictionary para	meters for - Item MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM M@XUM M@XUM #@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM G@XUM G@XUM P@XUM S@XUM D@XUM L@XUM L@XUM L@XUM W@XUM W@XUM W@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00	CSR C* C* C* CSR CSR CSR CSR CSR CSR CSR CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM M@XUM M@XUM #@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00 2129.00 2130.00 2131.00 2132.00 2133.00 2134.00 2135.00 2136.00 2137.00 2138.00 2140.00 2141.00 2142.00 2144.00 2144.00 2144.00 2144.00 2145.00 2146.00 2147.00 2148.00 2149.00 2149.00 2150.00 2151.00 2151.00 2153.00 2154.00 2155.00 2156.00 2156.00 2157.00	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL 'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM M@XUM M@XUM #@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81
2127.00 2128.00	CSR C* C* C* C* CSR	Dictionary para	MOVE *BLANK MOVEL'XUM' CALL'X9800E'	PRDTAI PRDTAI 19800E B@XUM T@XUM C@XUM G@XUM F@XUM R@XUM D@XUM R@XUM U@XUM U@XUM U@XUM U@XUM M@XUM M@XUM #@XUM	40 1 1 50 20 1 4 2 40 40 40 40 30 1 20	81

9-74 JD Edwards World

2160.00	C*					
	C*	Dictionary param	meters for - Item	Category	Code 001	
	C*	Dictional, para	meterb ror reem	. caccgor,		
	CSR		MOVE *BLANK	PRDTAI		
	CSR		MOVEL'X001'	PRDTAI		
	CSR		CALL 'X9800E'	PRDIKI		81
						61
2166.00	C*			T0000F		
	CSR		PARM	19800E		
	CSR	FRERR	IFEQ '0'			
	CSR		MOVE FRDSCR	B@X001	40	
	CSR		MOVE FRDTAT	Taxool	1	
2171.00	CSR		MOVE FREC	E@X001	1	
2172.00	CSR		MOVE FRDTAS	CaX001	50	
2173.00	CSR.		MOVE FRDTAD	G@X001	20	
2174.00	CSR		MOVE FRCDEC	F@X001	1	
2175.00	CSR		MOVELFRST	S@X001	4	
2176.00	CSR		MOVE FRRT	R@X001	2	
2177.00	CSR		MOVE FRDVAL	D@X001	40	
	CSR		MOVE FRVAL	A@X001	40	
2179.00	CSR		MOVE FRLVAL	L@X001	40	
2180.00	CSR		MOVE FROVAL	Uaxooi	40	
	CSR		MOVE FREDWR	WaX001	30	
	CSR		MOVE FRLR	J@X001	1	
2183.00	CSR		MOVE FRNNIX	Naxoo1	20	
	CSR		Z-ADD1	#@X001	110	
	CSR		MOVE F@X001	#A		
	CSR		DO #A			
	CSR		MULT 10	#@X001		
2188.00	CSR		END			
2189.00	CSR		END			
2190.00	C*					
2191.00	C*					
	C*	Dictionary param	meters for - Item	Category	Code 002	
	C*	zzzzzzzzy puzu				
	CSR		MOVE *BLANK	PRDTAI		
			MOVEL'X002'			
	CSR			PRDTAI		0.3
	CSR		CALL 'X9800E'			81
	C*					
	CSR		PARM	19800E		
	CSR	FRERR	IFEQ '0'			
2200.00	CSR		MOVE FRDSCR	B@X002	40	
2201.00	CSR		MOVE FRDTAT	T@X002	1	
2202.00	CSR		MOVE FREC	E@X002	1	
2203.00	CSR		MOVE FRDTAS	CaX002	50	
2204.00	CSR		MOVE FRDTAD	G@X002	20	
2205.00	CSR		MOVE FRCDEC	F@X002	1	
2206.00	CSR		MOVELFRST	S@X002	4	
2207.00	CSR		MOVE FRRT	R@X002	2	
	CSR		MOVE FRDVAL	Dax002	40	
2209.00	CSR		MOVE FRUAL	A@X002	40	
			MOVE FRIVAL			
2210.00	CSR			Lax002		
2211.00	CSR		MOVE FROVAL	UaX002	40	
	CSR		MOVE FREDWR	WaX002	30	
2213.00	CSR		MOVE FRLR	J@X002	1	
			MARKET	****		
2214.00	CSR		MOVE FRNNIX	NaX002	20	
2214.00 2215.00	CSR CSR		Z-ADD1	#@X002		
2214.00	CSR CSR CSR		Z-ADD1 MOVE F@X002			
2214.00 2215.00	CSR CSR		Z-ADD1	#@X002 #A		
2214.00 2215.00 2216.00	CSR CSR CSR		Z-ADD1 MOVE F@X002	#@X002		
2214.00 2215.00 2216.00 2217.00	CSR CSR CSR CSR		Z-ADD1 MOVE F@X002 DO #A	#@X002 #A		
2214.00 2215.00 2216.00 2217.00 2218.00	CSR CSR CSR CSR CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10	#@X002 #A		
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00	CSR CSR CSR CSR CSR CSR CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END	#@X002 #A		
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00	CSR CSR CSR CSR CSR CSR CSR CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END	#@X002 #A		
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00	CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END	#@X002 #A #@X002	110	
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00	CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END	#@X002 #A #@X002	110	
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C*		Z-ADD1 MOVE F@X002 DO #A MULT 10 END END END	#@X002 #A #@X002	110	
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00	CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END END ento	#@X002 #A #@X002 Category	110	
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00	CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR CSR CSR		Z-ADD1 MOVE *BLANK MOVEL'X003'	#@X002 #A #@X002	110	
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2227.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* C* CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END END ento	#@X002 #A #@X002 Category	110	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2221.00 2222.00 2222.00 2223.00 2224.00 2225.00 2225.00 2226.00 2226.00 2227.00	CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR CSR CSR		Z-ADD1 MOVE *BLANK MOVEL'X003'	#@X002 #A #@X002 Category	110	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2227.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* C* CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END END ent meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 Category	110	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2221.00 2222.00 2222.00 2223.00 2224.00 2225.00 2225.00 2226.00 2226.00 2227.00	CSR CSR CSR CSR CSR CSR C* C* C* CSR C* C* C* CSR C* C* CSR		Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 a Category PRDTAI PRDTAI	110	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2227.00 2227.00 2228.00 2228.00 2229.00	CSR CSR CSR CSR CSR CSR CSR C* C* C* C* CSR CSR C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 a Category PRDTAI PRDTAI	110	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2221.00 2222.00 2222.00 2223.00 2224.00 2225.00 2226.00 2227.00 2228.00 2229.00 2229.00 2229.00	CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 Category FRDTAI FRDTAI 19800B	110 Code 003	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2226.00 2227.00 2227.00 2228.00 2229.00 2230.00 2230.00 2231.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E' PARM IFEQ '0' MOVE FRDSCR MOVE FRDSCR	#@X002 #A #@X002 ***********************************	110 Code 003	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2226.00 2227.00 2227.00 2229.00 2230.00 2230.00 2231.00 2231.00	CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 Category FRDTAI FRDTAI 19800E B@X003 T@X003 E@X003	110 Code 003	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2221.00 2222.00 2222.00 2222.00 2223.00 2224.00 2225.00 2226.00 2227.00 2228.00 2229.00 2239.00 2231.00 2231.00 2231.00 2232.00	CSR CSR CSR CSR CSR CSR C* C* C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 **Category PRDTAI PRDTAI 19800B B@X003 T@X003 E@X003 C@X003	110 Code 003 40 1 1 50	81
2214.00 2215.00 2216.00 2217.00 2218.00 2219.00 2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2225.00 2226.00 2227.00 2227.00 2229.00 2230.00 2230.00 2231.00 2231.00	CSR CSR CSR CSR CSR CSR CSR C* C* C* CSR	Dictionary param	Z-ADD1 MOVE F@X002 DO #A MULT 10 END END meters for - Item MOVE *BLANK MOVEL'X003' CALL 'X9800E'	#@X002 #A #@X002 Category FRDTAI FRDTAI 19800E B@X003 T@X003 E@X003	110 Code 003	81

2237.00	CSR		MOVELFRSY	S@X003	4	
2238.00	CSR		MOVE FRRT	R@X003		
2239.00	CSR		MOVE FROVAL	D@X003		
2240.00	CSR			A@X003		
2241.00	CSR		MOVE FRLVAL	L@X003		
2242.00	CSR		MOVE FROVAL	U@X003		
2243.00	CSR		MOVE FREDWR	W@X003		
2244.00	CSR		MOVE FRLR	J@X003	1	
2245.00	CSR			N@X003		
2246.00	CSR		Z-ADD1	#@X003	110	
2247.00	CSR		MOVE Fax003	#A		
	CSR		DO #A			
2249.00	CSR		MULT 10	#@X003		
2250.00	CSR		END			
2251.00	CSR		END			
2252.00	C*					
2253.00	C*					
2254.00	C*	Dictionary parame	eters for - Item	Category	Code 004	
2255.00	C*					
	CSR		MOVE *BLANK	FRDTAI		
	CSR		MOVEL'X004'	FRDTAI		
2258.00	CSR		CALL 'X9800E'	21121111		01
2259.00	C*		CHPP . VAGOOR.			81
				TOOCOT		
	CSR	75.755	PARM	19800E		
	CSR	FRERR	IFEQ 'O'			
2262.00	CSR		MOVE FRDSCR		40	
2263.00	CSR		MOVE FRDTAT	T@X004	1	
2264.00	CSR		MOVE FREC	E@X004	1	
	CSR		MOVE FRDTAS	C@X004	50	
2266.00	CSR		MOVE FRDTAD	G@X004	20	
2267.00	CSR		MOVE FRCDEC	F@X004	1	
2268.00	CSR		MOVELFRSY	S@X004	4	
2269.00	CSR		MOVE FRRT	R@X004	2	
2270.00	CSR			D@X004	40	
2271.00	CSR			A@X004	40	
2272.00	CSR		MOVE FRLVAL	L@X004	40	
2273.00	CSR		MOVE PROVAL	U@X004	40	
2274.00	CSR		MOVE FREDWR			
				W@X004		
	CSR		MOVE FRLR	J@X004	1	
2276.00	CSR			N@X004	20	
2277.00	CSR		Z-ADD1	#@X004	110	
2278.00	CSR		MOVE F@X004	#A		
2279.00	CSR		DO #A			
2280.00	CSR		MULT 10	#@X004		
2281.00	CSR		END			
2282.00	CSR		END			
2283.00	C*					
2284.00	C*					
2285.00	C*	Dictionary parame	ters for - Item	Category	Code 005	
2286.00	C*	F				
1	CSR		MOVE *BLANK	FRDTAI		
	CSR		MOVEL'X005'	FRDTAI		
2289.00	CSR		CALL 'X9800E'			81
2290.00	Csr.		CAPP . YAGOOR.			0.1
1				TOCOOR		
2291.00	CSR	77775	PARM	I9800E		
2292.00	CSR	FRERR	IPEQ '0'	Borres		
2293.00	CSR			B@X005	40	
2294.00	CSR		MOVE FRDTAT	T@X005	1	
2295.00	CSR		MOVE FREC	E@X005	1	
2296.00	CSR		MOVE FRDTAS	C@X005	50	
2297.00	CSR		MOVE FRDTAD	G@X005	20	
2298.00	CSR		MOVE FRCDEC	F@X005	1	
2299.00	CSR		MOVELFRSY	S@X005	4	
2300.00	CSR		MOVE FRRT	R@X005	2	
2301.00	CSR		MOVE FROVAL	D@X005	40	
2302.00	CSR		MOVE FRVAL	A@X005	40	
	CSR		MOVE FRLVAL	L@X005	40	
2303.00			MOVE FROVAL	U@X005	40	
1						
2304.00	CSR		MOVE FREDWR	W@X005	30	
2304.00 2305.00	CSR CSR		MOVE FREDWR	W@X005	30 1	
2304.00 2305.00 2306.00	CSR CSR CSR		MOVE FRLR	J@X005	1	
2304.00 2305.00 2306.00 2307.00	CSR CSR CSR CSR		MOVE FRLR MOVE FRNNIX	J@X005 N@X005	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00	CSR CSR CSR CSR CSR		MOVE FRLR MOVE FRNNIX Z-ADD1	J@X005 N@X005 #@X005	1	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00	CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE FRNNIX Z-ADD1 MOVE F@X005	J@X005 N@X005	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00 2310.00	CSR CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE PRNNIX Z-ADD1 MOVE P@X005 DO #A	J@X005 N@X005 #@X005 #A	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00 2310.00 2311.00	CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE PRNNIX Z-ADD1 MOVE P@X005 D0 #A MULT 10	J@X005 N@X005 #@X005	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00 2310.00 2311.00 2312.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE PRNNIX Z-ADD1 MOVE PGX005 DO #A MULT 10 END	J@X005 N@X005 #@X005 #A	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00 2310.00 2311.00	CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE PRNNIX Z-ADD1 MOVE P@X005 D0 #A MULT 10	J@X005 N@X005 #@X005 #A	1 20	
2304.00 2305.00 2306.00 2307.00 2308.00 2309.00 2310.00 2311.00 2312.00	CSR CSR CSR CSR CSR CSR CSR CSR CSR		MOVE FRLR MOVE PRNNIX Z-ADD1 MOVE PGX005 DO #A MULT 10 END	J@X005 N@X005 #@X005 #A	1 20	

9-76 JD Edwards World



2386.00	C*		Load error	massay	ges array.				-
2387.00	C*			*********		F107 01			Error message
2388.00	CSR			MOVE	70001	EMK,01		v Action	— numbers from
2389.00	CSR			MOVE	10002	EMK,02		ıv Key	Data Dictionary
2390.00	CSR			MOVE	0003	EMK,03		ıv Blanks	Data Dictionary
2391.00	CSR			MOVE	0004	EMK,04		ıv Date	
2392.00	CSR			MOVE	0005	EMK,05		ıv Next Nbr	
2393.00	CSR			MOVE	10007	EMK,06		ı Use	
2394.00	CSR			MOVE	10025	EMK,07		ıv Values	
2395.00	CSR			MOVE	0026	EMK,08		IV MCU	
2396.00	CSR			MOVE	10027	EMK,09	II	ıv Desc Ttl	
397.00	CSR			MOVE	0052	EMK,10			
398.00	C*								
2399.00	C*								
2400.00		Load	invalid action	n code	array.			v1	1.6
401.00	C*								on code function
402.00	CSR			MOVE	. ,	@NAC		used with th	e Program Generator
403.00	C*								
2404.00	C*								
2405.00	Ct	Load	systeM date.						Headha TIME
2406.00	C*							1	Use the TIME
2407.00	CSR			TIME		\$WRK12	120		— feature to allow
2408.00	CSR			MOVE	\$WRK12	\$\$EDT	60		for all date forma
2409.00	CSR			MOVE	\$\$EDT	\$SIDAT	6		
2410.00	CSR			MOVEL	' *SYSVAL	"#FFMT	7		
2411.00	CSR			MOVEL	*BLANKS	#EDAT	8		
2412.00	CSR			MOVEL	' *JUL	" #TFMT	7		
2413.00	CSR			MOVEL	' *NONE	/ #SKP	7		
2414.00	CSR			MOVE	, ,	\$ERTST	1		
2415.00	CSR			CALL	'X0028	,			
2416.00	C*								
2417.00	CSR			PARM		\$SIDAT			
2418.00	CSR			PARM		#EDAT			
2419.00	CSR			PARM		#FFMT			
2420.00	CSR			PARM		#TFMT			
2421.00	CSR			PARM		#SKP			
2422.00	CSR			PARM		\$ERTST			
2423.00	CSR			MOVE	#SIDAT	\$\$UPMJ	60		
2424.00	C*								
2425.00	CSR		END999	ENDSE	1				
2426.00	C****	****	******	****	******	******	****	******	*****
427.00	C****	***	******	****	******	******	****	*****	*****
428.00	01928	301 I	2		UNLOCK			Method of rel	leasing
								master file re	

9-78 JD Edwards World

Appendix E - JD Edwards World Subroutines and Flows

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

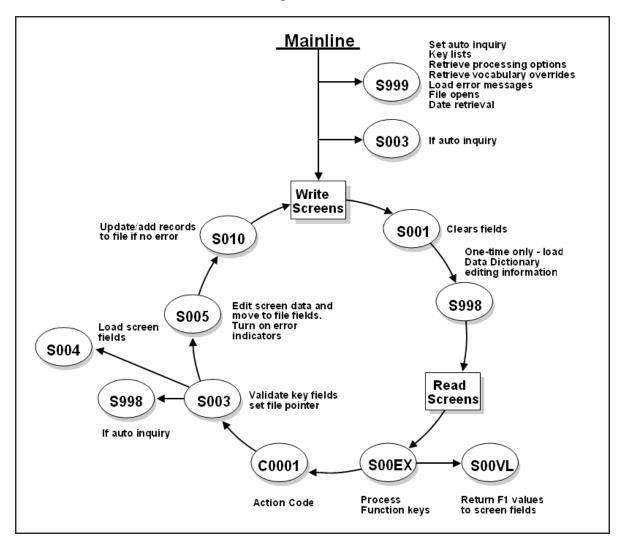
Subroutine	Description
S003	Validates the key fields.
	Launches subroutine S998 if the system invokes auto inquire.
	Sets the file pointer.
	 Performs a SETLL and CHAIN if the program is a single record maintenance program
	 Performs a SETLL for subfile programs
	Launches subroutine S004 to load screen 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.

9-80 JD Edwards World

Subroutine	Description
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

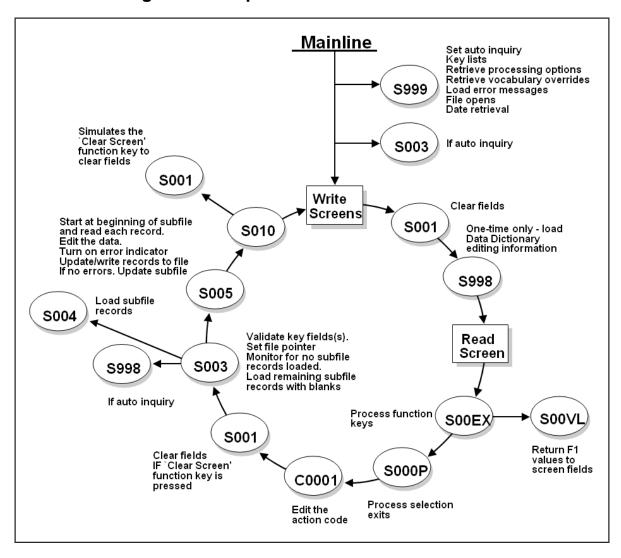
Flows

Interactive Non-Subfile Program

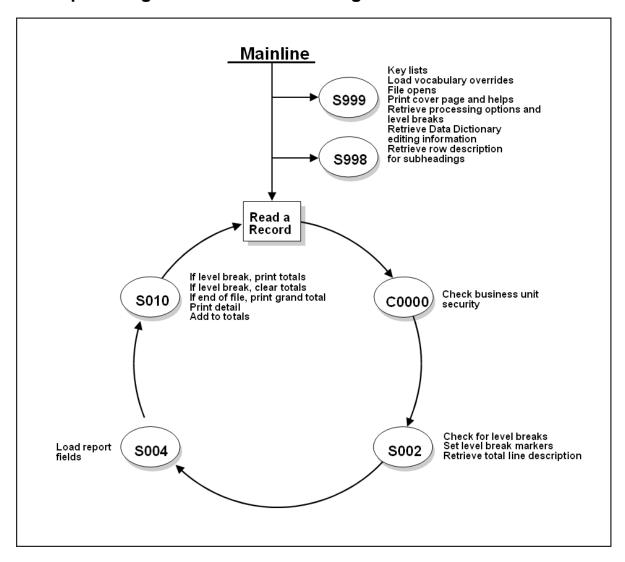


9-82 JD Edwards World

Subfile Program with Options

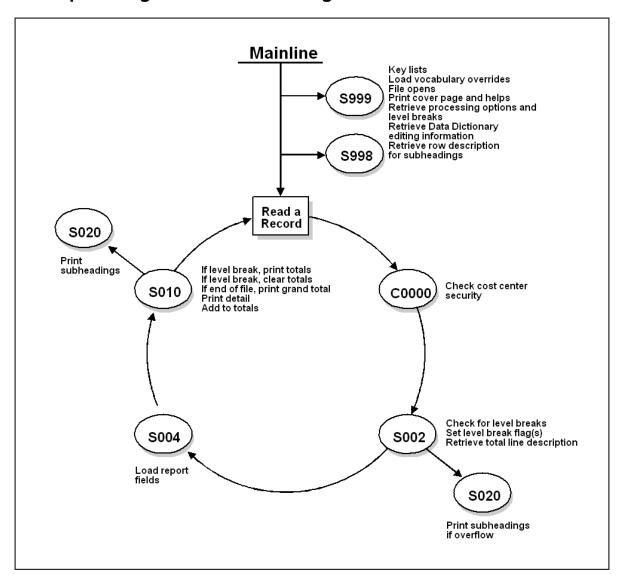


Report Program without Subheadings

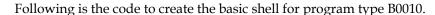


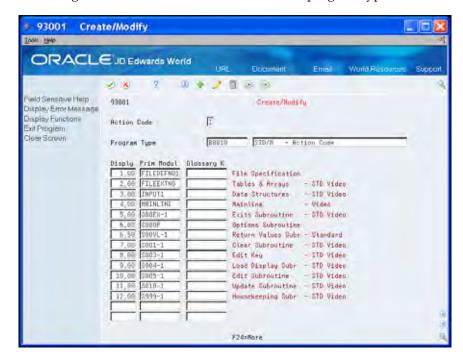
9-84 JD Edwards World

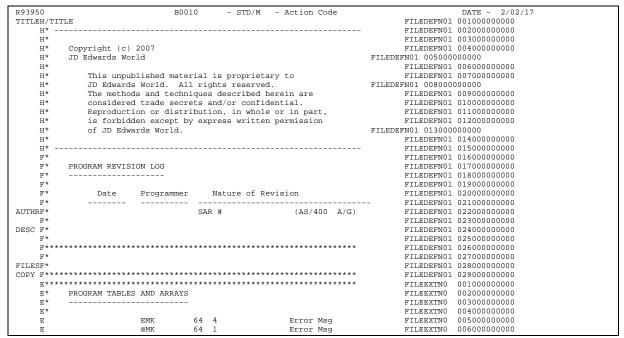
Report Program with Subheadings



Appendix F – Sample Code







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VIN		=	to Load Video S	Screen Text		
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TYX	VTX	I		16011640 VTX041	INPUT1	04800000000
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9-88 JD Edwards World

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32813320 VTX083
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                                                33213360 VTX084
                                                                                          TNPHT1
                                                                                                      091000000000
VTX
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                                                                                          INPUT1
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VTX
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                                                34013440 VTX086
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094000000000
                                                34413480 VTX087
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                                                34813520 VTX088
                                                                                          INPUT1
                                                                                                      095000000000
VTX
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                                                                                          TNPUT1
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VTX
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VTX
                                                36013640 VTX091
36413680 VTX092
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VTX
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                                                48814920 VTX123
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49615000 VTX125
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132000000000
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                                                50015040 VTX126
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                                                                                                      133000000000
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                                                50415080 VTX127
                                                                                                      134000000000
                                                                                          INPUT1
                                                50815120 VTX128
                                                                                          INPUT1
                                                                                                      135000000000
VTX
                                                51215160 VTX129
                                                                                          TNPHT1
                                                                                                      1360000000000
                                                                                                      137000000000
                                                51615200 VTX130
                                                                                          INPUT1
                                               52015240 VTX131
                                                                                          INPUT1
                                                                                                      138000000000
                                                 - STD/M
R93950
                                    B0010
                                                            - Action Code
                                                                                                       DATE - 2/02/17
VTX
                                                52415280 VTX132
                                                                                          INPUT1
                                                                                                      139000000000
VTX
                                                52815320 VTX133
                                                                                          INPUT1
                                                53215360 VTX134
                                                                                          INPUT1
                                                                                                      141000000000
VTX
                                                53615400 VTX135
                                                                                          INPUT1
                                                                                                      142000000000
                                                54015440 VTX136
                                                                                                      143000000000
VTX
VTX
                                               54415480 VTX137
54815520 VTX138
                                                                                                      144000000000
145000000000
                                                                                          INPUT1
                                                                                          INPUT1
                                                55215560 VTX139
                                                                                          INPUT1
                                                                                                      146000000000
VTX
                                                55615600 VTX140
                                                                                          TNPUT1
                                                                                                      1470000000000
VTX
                                                56015640 VTX141
                                                                                                      148000000000
VTX
                                                56415680 VTX142
                                                                                          TNPUT1
                                                                                                      1490000000000
                                                56815720 VTX143
                                                                                                      150000000000
VTX
                                                                                          INPUT1
                                               57215760 VTX144
                                                                                          TNPUT1
                                                                                                      151000000000
                                                                                                      152000000000
                                                                                          INPUT1
     I/COPY JDECPY, I00DSINX
                                                                                          INPUT1
                                                                                                      153000000000
     I/COPY JDECPY.I00PS@@
                                                                                          INPUT1
                                                                                                      153100000000
INFDSI/COPY JDECPY, I00DSPROG
                                                                                          INPUT1
                                                                                                      154000000000
DATEST*
                                                                                          TNPHT1
                                                                                                      1550000000000
                                                                                                      156000000000
                                                                                          INPUT1
     MAINLINE
                                                                                                      001000000000
     C*
                                                                                                      002000000000
           MAINLINE PROGRAM
                                                                                          MAINLINE
                                                                                                      003000000000
     C*
                                                                                          MATNITHE
                                                                                                      0040000000000
     C*
                                                                                          MAINLINE
                                                                                                      005000000000
            Process housekeeping.
     C*
C
C*
C*
                                                                                          MATNITHE
                                                                                                      006000000000
                                                                                                      007000000000
                              EXSR S999
                                                                                          MAINLINE
                                                                                                      008000000000
                                                                                          MAINLINE
                                                                                          MAINLINE
     C*
                                                                                          MAINLINE
                                                                                                      010000000000
            If LR on, end program.
                                                                                          MAINLINE
                                                                                                      011000000000
     C * C*
                                                                                          MAINLINE
                                                                                                      012000000000
                              CABEO'1'
                                                                                          MATNITUE.
                                                                                                      0130000000000
                                                                                          MAINLINE
                                                                                                      014000000000
     C*
C*
C
                                                                                                      015000000000
016000000000
             If automatic inquiry set, process inquiry.
                                                                                          MAINLINE
                                                                                          MAINLINE
                   SAUTO
                              CASEQ'1'
                                               S003
                                                               24
                                                                                          MAINLINE
                                                                                                      017000000000
                                                                                          MAINLINE
                                                                                                      018000000000
     C
                                                                                                      019000000000
                                                                                          MAINLINE
                                                                                          MATNITHE
                                                                                                      0200000000000
     C*
C*
C*
                                                                                                      021000000000
            Begin normal program processing.
                                                                                          MAINLINE
                                                                                                      022000000000
                                                                                          MAINLINE
                                                                                          MAINLINE
                   *INLR
                              DOWEO'0'
                                                                                                      024000000000
                                                                                          MATNITHE
                                                                                                      0250000000000
             If #SFRNO field, do subfile record number validation
                                                                                          MAINLINE
                                                                                                      026000000000
```

/*				MAINLINE	02700000000
+FLDNC*	#SFRNO	ZSFLRCDNO		MAINLINE	028000000000
/*				MAINLINE	02900000000
/*	If SFLCLR is	used, process *i	n38 accordingly	MAINLINE	03000000000
/*		, F		MAINLINE	031000000000
+FLDNC*	?SFLCLR	ZSFLCLR		MAINLINE	03200000000
C*	. STECHN	DOI DOM		MAINLINE	03300000000
C*	Write video sc	reen		MAINLINE	03400000000
C*	WIICC VIGCO BC	rccir.		MAINLINE	03500000000
/*				MAINLINE	03600000000
/*	If not a subf	ile display, jus	st write format1	MAINLINE	03700000000
/*	II HOU W DUDI	iic dibpid/, ja	WIICE IOIMACI	MAINLINE	03800000000
-FLDNC*	?SFL	ZWRITE		MAINLINE	03900000000
/*	.012	Diller		MAINLINE	04000000000
R93950		B0010	- STD/M - Action Code		DATE - 2/02/17
/*	If a subfile		format1 and formatc	MAINLINE	041000000000
/*	II d babilio	dispid/, write i	ormacr and rormaco	MAINLINE	04200000000
+FLDNC*	?SFL	ZWRITESFI	1	MAINLINE	043000000000
C		MOVE '1'	@@AID	MAINLINE	044000000000
С		EXSR S001		MAINLINE	045000000000
C*				MAINLINE	04600000000
C*				MAINLINE	04700000000
C*	Load data fiel	d dictionary par	rameters (one cycle only).	MAINLINE	04800000000
C*				MAINLINE	04900000000
C	\$998	CASEQ''	S998	MAINLINE	05000000000
C*				MAINLINE	05100000000
C		END		MAINLINE	05200000000
C*				MAINLINE	05300000000
C*	Begin video sc	reen read proces	ssing.	MAINLINE	05400000000
C*		=		MAINLINE	05500000000
C		SETOF	999301	MAINLINE	05600000000
DSPF C		READ &01FILE	9998	MAINLINE	05700000000
C		Z-ADD0	##RROW	MAINLINE	05800000000
C		Z-ADD0	##RCOL	MAINLINE	05900000000
C*				MAINLINE	06000000000
C*	If video read	timed out, end p	program.	MAINLINE	06100000000
C*				MAINLINE	06200000000
C	*IN99	CABEQ'1'	EOJ LR	MAINLINE	06300000000
C*				MAINLINE	06400000000
C	@@AID	CABEQ#FEOJ	EOJ LR	MAINLINE	06500000000
C*				MAINLINE	06600000000
C*				MAINLINE	06700000000
C*	If valid funct	ion key pressed,	process and return.	MAINLINE	06800000000
C*				MAINLINE	06900000000
C	*IN15	IFEQ '1'		MAINLINE	07000000000
C		EXSR SOOEX		MAINLINE	07100000000
C*				MAINLINE	07200000000
C	*INLR	CABEQ'1'	EOJ	MAINLINE	07300000000
C*				MAINLINE	07400000000
C	*IN15	CABEQ'1'	END	MAINLINE	07500000000
C*				MAINLINE	07600000000
C		END		MAINLINE	07700000000
/*				MAINLINE	07800000000
/*	If any select	ion exits, exsr	S000P	MAINLINE	07900000000
/*				MAINLINE	08000000000
+DTAIC*	SELC	ZS000P		MAINLINE	08100000000
/*		_		MAINLINE	08200000000
/*	If action cod	e then exsr C000)1	MAINLINE	08300000000
/*				MAINLINE	08400000000
+FLDNC*	ACTION	ZACTION		MAINLINE	08500000000
C*	_ ,			MAINLINE	08600000000
C*	Load subfile r	ecords.		MAINLINE	08700000000
C*				MAINLINE	08800000000
C		EXSR S003		MAINLINE	08900000000
C*				MAINLINE	09000000000
/* /*	TF 1.1	files the	2005	MAINLINE	091000000000
/* /*	ii any update	files then exsi	. 5005	MAINLINE	09200000000
+FILEC*	*ANY	DB ZS005	@	MAINLINE	09300000000
	"ANY	25005 פע	₩	MAINLINE MAINLINE	09400000000
/* /*	Tf ann madet-	files and sati	on code then do S010		095000000000
/ ^ / *	ii any upuate	rires and accid	on code chen do suit	MAINLINE MAINLINE	09600000000 09700000000
+FILEC*	*ANY	DB *AND	@	MAINLINE	09800000000
-FILEC*	*ANY	DB *AND	2	MAINLINE	098500000000
R93950	LIIN I	B0010	- STD/M - Action Code	MATINITAR	DATE - 2/02/17
+FLDNC*	ACTION	ZS010A	515,11 Accion code	MAINLINE	09900000000
/*				MAINLINE	10000000000
/*	If a Master F	ile 2 exists, th	nen do S011.	MAINLINE	101000000000
/*				MAINLINE	10200000000
+FILEC*	*ANY	DB *AND	@	MAINLINE	10300000000
+FILEC*	*ANY	DB *AND	2	MAINLINE	103500000000
+FLDNC*	ACTION	ZS011		MAINLINE	10400000000
C*				MAINLINE	105000000000
C*	Return for nex	t input.		MAINLINE	10600000000
C*		*		MAINLINE	10700000000
C	END	TAG		MAINLINE	108000000000
C*				MAINLINE	10900000000
C*				MAINLINE	110000000000
C*	Set correct me	ssage in line 24	١.	MAINLINE	111000000000
C*				MAINLINE	112000000000
c	*IN93	IFEO '1'		MAINLINE	11300000000
C		MOVELSVL24E	VDL24	MAINLINE	114000000000
C		ELSE		MAINLINE	115000000000
C		MOVELSVL24M	VDL24	MAINLINE	116000000000
				MAINLINE	117000000000
C		END			

9-90 JD Edwards World

C*			-		MAINLINE	11800000000
C		END			MAINLINE	11900000000
C*					MAINLINE	12000000000
C	EOJ	TAG			MAINLINE	121000000000
C*					MAINLINE	122000000000
C*					MAINLINE	123000000000
C*	END MAINLINE PH	ROGRAM			MAINLINE	12400000000
C*					MAINLINE	125000000000
COPY C****	*****	*****	*****	******	MAINLINE	12600000000
C*					S00EX-1	00100000000
C*	SUBROUTINE SOOR	EX - Process Fun	ction Keys		S00EX-1	00200000000
C*					S00EX-1	00300000000
C*					S00EX-1	00400000000
C*	Processing: 1	. Determine fun	ction key pr	essed.	S00EX-1	00500000000
C*	2	. Process funct	ion key requ	est.	S00EX-1	00600000000
C*					S00EX-1	00700000000
CSR	SOOEX	BEGSR			S00EX-1	00800000000
C*					S00EX-1	00900000000
+FLDNC*	#SFRNO	Z@@SRCN			S00EX-1	00950000000
CSR	T00EXA	TAG			S00EX-1	01000000000
C*					S00EX-1	01100000000
C*					S00EX-1	01200000000
C*	If EOJ requeste	ed, exit subrout	ine.		S00EX-1	01300000000
C*					S00EX-1	01400000000
CSR	@@AID	CABEQ#FEOJ	ENDEXE	LR	S00EX-1	015000000000
C*					S00EX-1	016000000000
C*	If Displace "	nnegged	to helm f- '	lity and mature	SOOEX-1	01700000000
C*				lity and return.	SOOEX-1	01800000000 01900000000
C*					S00EX-1 S00EX-1	02000000000
CSR	@@AID	IFEQ #FKEYS			S00EX-1	02100000000
CSR	SENID	CALL 'P9601H'		98	S00EX-1	02200000000
CSR C*					S00EX-1	02300000000
CSR		PARM	I00SC		S00EX-1	02400000000
CSR		PARM	SRVFDS		S00EX-1	02500000000
CSR		PARM	I00CSR		SOOEX-1	02600000000
C*					S00EX-1	027000000000
CSR	@@AID	CABNE#FKEYS	T00EXA		S00EX-1	028000000000
C*					S00EX-1	02900000000
R93950		B0010	- STD/M	- Action Code		DATE - 2/02/17
CSR		GOTO ENDEXE			S00EX-1	03000000000
C*					S00EX-1	03100000000
CSR		END			S00EX-1	03200000000
C*					S00EX-1	03300000000
C*	If Cursor Sens:	itive Help Press	ed, exit to	CS Help.	S00EX-1	03400000000
C*					S00EX-1	03500000000
C*					S00EX-1	03600000000
CSR	@@AID	IFEQ #FQMRK			S00EX-1	03700000000
CSR		MOVEA*IN	##IN		S00EX-1	03800000000
CSR		CALL 'X96CCX'		98	S00EX-1	03900000000
C*					S00EX-1	04000000000
CSR		PARM	I00SC		SOOEX-1	04100000000
CSR		PARM	SRVFDS		S00EX-1	04200000000
CSR		PARM / /	IOOCSR		S00EX-1	04300000000
CSR		PARM ' '	##CCFF 2		S00EX-1	044100000000
CSR C*		PARM	I00MDE		S00EX-1 S00EX-1	044100000000 04500000000
CSR	##FLDN	IFNE *BLANKS			S00EX-1 S00EX-1	04600000000
CSR	##4 חחו	EXSR SOOVL			S00EX-1 S00EX-1	04700000000
C*					S00EX-1	04800000000
CSR		MOVEA##IN	*IN,1		S00EX-1	04900000000
CSR		END	,-		SOOEX-1	05000000000
CSR		MOVEL*BLANKS	##DTAI		S00EX-1	051000000000
CSR		GOTO ENDEXE			S00EX-1	052000000000
C*					S00EX-1	05300000000
CSR		END			S00EX-1	05400000000
C*					S00EX-1	05500000000
C*		ors pressed, exi			S00EX-1	05600000000
C*					S00EX-1	05700000000
C*					S00EX-1	05800000000
CSR	@@AID	IFEQ #FERRD			S00EX-1	05900000000
CSR		Z-ADD1	#G		S00EX-1	06000000000
CSR		Z-ADD1	#H		S00EX-1	06100000000
CSR	#G	DOWLE64			SOOEX-1	06200000000
CSR	@MK,#G	IFEQ '1'	enn ""		S00EX-1	06300000000
CSR		MOVE EMK,#G	@ER,#H		SOOEX-1	06400000000
CSR		ADD 1	#H		S00EX-1	065000000000
CSR		END 1	#0		S00EX-1	06600000000 06700000000
CSR CSR		ADD 1 END	#G		SOOEX-1	
CSR		CALL 'P0000E'		98	S00EX-1 S00EX-1	06800000000 06900000000
CSR C*		CALL POUCUE.		,,	SOUEX-1 SOUEX-1	07000000000
CSR		PARM	@ER		S00EX-1	071000000000
CSR		GOTO ENDEXE			S00EX-1	07200000000
C*					SOOEX-1	073000000000
CSR		END			SOOEX-1	07400000000
C*					SOOEX-1	075000000000
C*	If HELP kev pre	essed, exit to h	elp facility	and return.	S00EX-1	076000000000
C*					S00EX-1	07700000000
C*					S00EX-1	07800000000
CSR	@@AID	IFEQ #FHELP			S00EX-1	07900000000
CSR		CALL 'POOHELP'		98	S00EX-1	08000000000
C*					S00EX-1	08100000000
CSR		PARM	HS@@		S00EX-1	08200000000
CSR		PARM	HE@@		S00EX-1	08300000000

CSR		PARM	I00SC			S00EX-1	08400000000
CSR		PARM	SRVFDS			S00EX-1	08500000000
CSR		PARM	I00CSR			S00EX-1	08600000000
CSR		GOTO ENDEXE				S00EX-1	08700000000
R93950		B0010	- STD/M	- Action	Code		DATE - 2/02/17
C*					:	S00EX-1	08800000000
CSR		END				S00EX-1	08900000000
C*			_			S00EX-1	09000000000
C*	If Clear scree	n pressed, clear	screen and	return.		S00EX-1	09100000000
C* C*						SOOEX-1	09200000000
CSR	@@AID	IFEQ #FCLR				S00EX-1 S00EX-1	093000000000 09400000000
CSR	WWAID	EXSR S001				SOUEX-1	09500000000
C*						S00EX-1	09600000000
CSR		GOTO ENDEXE				S00EX-1	09700000000
C*						S00EX-1	098000000000
EXITCCSR		END				S00EX-1	09900000000
C*						S00EX-1	10000000000
C*	Process roll u	p and down keys.				S00EX-1	10100000000
C*							10200000000
C*							10300000000
CSR	@@AID	IFEQ #FROLU				S00EX-1	10400000000
CSR	@@AID	OREQ #FROLD				S00EX-1	10500000000
CSR	\$SECUR	DOUEQ' '	danarm 1			SOOEX-1	107000000000
CSR C*		MOVE ' '	\$SECUR 1				108000000000 10900000000
C*	Tf ROI,I. IID box	pressed, process	g read nev+				110000000000
C*		pressed, process					111000000000
C*							11200000000
CSR	@@AID	IFEQ #FROLU					11300000000
C*							114000000000
C*	Reset error in	dicators if roll				S00EX-1	11500000000
C*							11600000000
CSR		MOVEA\$RESET	*IN,41			S00EX-1	117000000000
CSR		MOVE '0'	*IN,40	010000			11800000000
CSR		SETOF		818299			11900000000
MF CSR	% * TNTQ 1	READ &01FORMAT		9981		S00EX-1	12000000000
CSR ME CCD	*IN81	IFEQ '1'				SOOEX-1	121000000000
MF CSR CSR	\$RUKEY	SETLL&01FORMAT SETOF		8299		S00EX-1 S00EX-1	122000000000 12300000000
MF CSR	%	READ &01FORMAT		9982			12400000000
C*	•						12500000000
C*	If error on re	ad, set error.					12600000000
C*							127000000000
CSR	*IN82	IFEQ '1'				S00EX-1	12800000000
CSR		SETON		9341		S00EX-1	12900000000
CSR		MOVE '1'	@MK,2			S00EX-1	13000000000
CSR		GOTO ENDEXE				S00EX-1	13100000000
C*						S00EX-1	13200000000
CSR		END					13300000000
CSR		END					13400000000
CSR C*		END				S00EX-1	135000000000
C*	Tf DOIT DOWN 1-	ev pressed pros	egg read ro	ior		S00EX-1 S00EX-1	136000000000 137000000000
C*		ey pressed, proce				SOUEX-1 SOUEX-1	138000000000
C*							13900000000
CSR	@@AID	IFEO #FROLD					14000000000
C*	COMID						141000000000
C*	Reset error in	dicators if roll					14200000000
C*						S00EX-1	14300000000
CSR		MOVEA\$RESET	*IN,41			S00EX-1	14400000000
CSR		MOVE '0'	*IN,40			S00EX-1	14500000000
CSR		SETOF		818299		S00EX-1	14600000000
MF CSR	%	READP&01FORMAT		9981		S00EX-1	14700000000
R93950		B0010	- STD/M	- Action			DATE - 2/02/17
CSR	*IN81	IFEQ '1'				SOOEX-1	14800000000
MF CSR	\$RDKEY	SETLL&01FORMAT		8299		S00EX-1	14900000000
CSR MF CSR	%	SETOF READP&01FORMAT		9982		S00EX-1 S00EX-1	150000000000 151000000000
C*	o	CLILLI WOLF ONPIAL		,,,,,		SOUEX-1	15200000000
C*	If error on re	ad, set error				S00EX-1	15300000000
C*		,				S00EX-1	15400000000
CSR	*IN82	IFEQ '1'				S00EX-1	155000000000
CSR		SETON		9341		S00EX-1	15600000000
CSR		MOVE '1'	@MK,2			S00EX-1	15700000000
CSR		GOTO ENDEXE				S00EX-1	15800000000
C*						S00EX-1	15900000000
CSR		END				S00EX-1	16000000000
CSR		END				S00EX-1	16100000000
CSR C*		END				SOOEX-1	16200000000
C*	Tond widon s	een data on mell	keye			S00EX-1	16300000000
C*		een data on roll				S00EX-1 S00EX-1	164000000000 165000000000
C*						SOUEX-1 SOUEX-1	166000000000
CSR	@@AID	IFEQ #FROLU				SOUEX-1	16700000000
COIL	@@AID	OREQ #FROLD				SOUEX-1	16800000000
CSR		<u>x</u> "11022				S00EX-1	16900000000
CSR /*	Ingludo rogord	lock logic if up	pdate files	exist.		S00EX-1	169100000000
	Include record					S00EX-1	16920000000
/*	include record						
/* /*	*ANY	DB ZUNLOCK	@			S00EX-1	16930000000
/* /* /*		DB ZUNLOCK	@			S00EX-1 S00EX-1	16930000000 16940000000
/* /* /* +FILEC* C* MCU01C*	*ANY		@				
/* /* /* +FILEC* C* MCU01C*			@			S00EX-1 S00EX-1 S00EX-1	16940000000
/* /* /* +FILEC* C*	*ANY					S00EX-1 S00EX-1	16940000000 16990000000

9-92 JD Edwards World

```
MOVEL&01KEY
MCU01CSR
                                                                                                            173000000000
                               IFNE '1'
ANDNE'1'
MCIIO1CSR
                    #AIIT
                                                                                               S00EX-1
                                                                                                            174000000000
                    #FAUT
                                                                                               S00EX-1
                                                                                                            175000000000
MCU01CSR
MCU01CSR
                               EXSR C0000
                                                                                               S00EX-1
                                                                                                            176000000000
177000000000
MCU01C*
                                                                                               S00EX-1
MCU01CSR
                               END
                                                                                               S00EX-1
                                                                                                            178000000000
MCU01CSR
                    #AUT
                               IFNE '1'
                                                                                               S00EX-1
                                                                                                            1790000000000
                               ANDNE'1'
                                                                                                            180000000000
MCU01CSR
                    #FAUT
                                                                                               S00EX-1
                                                                                               S00EX-1
S00EX-1
                                                                                                            181000000000
182000000000
MCU01CSR
                    #MAUT
                               ANDNE'1'
                               MOVE '1'
                                                 $SECUR
MCU01CSR
                                                                                                            183000000000
184000000000
MCU01CSR
                                                                                               S00EX-1
                               CASEO' '
     CSR
                   $SECUR
                                                 S004
                                                                                               S00EX-1
                                                                                               S00EX-1
                                                                                                            185000000000
     CSR
                               END
                                                                                               S00EX-1
                                                                                                            1860000000000
                                                                                               S00EX-1
                                                                                                            187000000000
     C*
     CSR
                               END
                                                                                               S00EX-1
                                                                                                            188000000000
189000000000
                                                                                               S00EX-1
                                                                                                            190000000000
      CSR
                               בואים
                                                                                               S00EX-1
     CSR
                               GOTO ENDEXE
                                                                                               S00EX-1
                                                                                               S00EX-1
                                                                                                            192000000000
     CSR
                               END
                                                                                               S00EX-1
                                                                                                            193000000000
                                                                                               S00EX-1
                                                                                                            194000000000
     CSR
                   @@AID
                               IFNE '1'
                                                                                               S00EX-1
                                                                                                            195000000000
                                                                                                            196000000000
                               SETON
                                                              0193
                                                                                               S00EX-1
     CSR
                               GOTO ENDEXE
                                                                                               S00EX-1
                                                                                                            197000000000
                                                                                                            198000000000
                                                                                               S00EX-1
                                                                                               S00EX-1
                                                                                                            199000000000
                                                                                               S00EX-1
                                                                                                            200000000000
                                                                                                            201000000000
     CSR
                                                                                               S00EX-1
                   ENDEXE
                               ENDSR
                                                                                                            DATE - 2/0
202000000000
P93950
                                      B0010
                                                    - STD/M
                                                               - Action Code
                                                                                                                      2/02/17
COPY C***
                                                                                               S00EX-1
                                                                                               SOOOP
                                                                                                            000100000000
             If the display file has the selection option field,
                                                                                               SOOOP
                                                                                                            000200000000
             include the S000P subroutine to process selection options.
                                                                                                            000300000000
                                                                                               SOOP
                                                                                                            000400000000
+FLDNC**
                                      *AND
                                                                                               SOOOP
                                                                                                            001000000000
-FLDNC**
                   SFSELC
                                     S000P-1
                                                                                               SOOOP
                                                                                                            001100000000
                                                                                               SOOOP
                                                                                                            001200000000
                                     S000P-2
                                                                                               SOOOP
                                                                                                            001300000000
     C*
                                                                                               S00VI-1
                                                                                                            0010000000000
     C*
                                                                                               S00VL-1
                                                                                                            002000000000
             SUBROUTINE SOOVL - Cursor Control Return Values
     C*
C*
                                                                                               S00VI-1
                                                                                                            S00VL-1
            By format, find the field to update and move in the returned value. If the format is a subfile, the record to change is found in @@RRN.
     C*
C*
C*
                                                                                               S00VL-1
                                                                                                            005000000000
                                                                                               S00VL-1
                                                                                               S00VL-1
                                                                                                            007000000000
                                                                                               S00VI.-1
                                                                                                            008000000000
                                                                                               S00VL-1
                                                                                                            009000000000
     CSR
                   S00VL
                               BEGSR
     C*
                                                                                               S00VL-1
                                                                                                            010000000000
     C*
                                                                                                            0110000000000
                                                                                               S00VL-1
     CSR
                    ##RVAL
                               IFEO '*BLANK'
                                                                                               S00VI.-1
                                                                                                            012000000000
013000000000
                               MOVE *BLANK
                                                 ##RVAL
                                                                                               S00VL-1
     CSR
                                                                                               S00VL-1
                                                                                                            014000000000
S00VLC*
                                                                                               S00VL-1
                                                                                                            0150000000000
     C*
                                                                                               S00VL-1
                                                                                                            016000000000
     CSR
C**
                   ENDOVL ENDSR
                                                                                                            017000000000
018000000000
                                                                                               S00VL-1
                                                                                               S00VL-1
COPY
                                                                                               S001-1
     C*
                                                                                                            001000000000
             SUBROUTINE SOO1 - Clear Fields
                                                                                               S001-1
                                                                                                            002000000000
     C*
                                                                                               S001-1
                                                                                                            003000000000
                                                                                               5001 - 1
                                                                                                            0040000000000
     C*
                                                                                                            005000000000
             Processing: 1. Reset all video screen and data file fields
                                                                                               S001-1
                                                                                                            006000000000
     C*
C*
                                 for next transaction.
                                                                                               S001-1

    Clear action code only if requested.

                                                                                               S001-1
                                                                                               S001-1
                                                                                                            008000000000
                                                                                                            009000000000
     CSR
                   S001
                               BEGSR
                                                                                               S001-1
     C*
                                                                                               S001-1
                                                                                                            010000000000
                                                                                               S001-1
                                                                                                            0110000000000
     C*
                                                                                                            012000000000
             Reset fields for next transaction.
                                                                                               S001-1
                                                                                                            01300000000
013100000000
     C*
                                                                                               S001-1
     CSR
                    *NOKEY
                               CLEAR&01FORMAT
                                                                                               S001-1
CLRY
                                                                                                            014000000000
     CSR
                                                                                                            0150000000000
                               MOVELSVL24M
                                                 VDT-24
                                                                                               5001 - 1
      CSR
                                                 @IN37
                                                                                               S001-1
                                                                                                            016000000000
                               MOVE '
     C*
                                                                                               5001 - 1
                                                                                                            017000000000
     C*
                                                                                                            018000000000
             Clear action code only if clear screen action.
                                                                                               S001-1
                                                                                                            019000000000
020000000000
                                                                                               S001-1
     CSR
                   @@AID
                               IFEO #FCLR
                                                                                               S001-1
                               MOVE *ALL'0'
                                                 $RESET
                                                                                               S001-1
                                                                                                            021000000000
     CSR
                               MOVEASRESET
                                                 *IN.41
                                                                                               S001-1
                                                                                                            022000000000
                                                                                                            023000000000
      CSR
                               MOVE
                                                 ACTION
CLRN C*
                                                                                               S001-1
                                                                                                            0240000000000
                                                                                                            025000000000
     CSR
                                                                                               S001-1
                                                                                                            026000000000
027000000000
                                                                                               S001-1
     CSR
                   END001
                               ENDSR
                                                                                               S001-1
COPY
     C**
                                                                                               S001-1
                                                                                                            028000000000
     C*
                                                                                                            001000000000
                                                                                               S003-1
                                                                                                            002000000000
     C*
             SUBROUTINE S003 - Edit Key
                                                                                               S003-1
                                                                                                            003000000000
DATE - 2/0:
004000000000
0050000000000
      C*
                                                                                               S003-1
R93950
                                      B0010
                                                   - STD/M - Action Code
                                                                                                                       2/02/17
     C*
                                                                                               S003-1
             Processing: 1.
                                Clear error indicators and arrays.
                                                                                               S003-1
     C*
                                Load input keys.
                                                                                               S003-1
                                                                                                            006000000000
                                Validate master file key.
Release master file record lock.
                                                                                                            0070000000000
                            3.
                                                                                               5003 - 1
                                                                                                            008000000000
                                                                                               S003-1
```

Color	Г						
CER		5.	Load video sc	reen output	on inquiry.		
Color		9002	DECCD				
CT Land data Tield dictionary parameters (one cycle only).							
C. Load data Field dist Courty personsers (one cycle only). C. C. 1998 CASC '							
CSB \$996 CASKQ* \$998 \$903-1 131490000000		Load data field	dictionary par	ameters (on	e cycle only).		
COUNTY COU	C*					S003-1	012300000000
CER		\$998	CASEQ''	S998			
CTR MOVE *ALL** OF PARENTS 39							
C Reset error indicators and arrays. S003-1 0.14000000000			END				
CH		Peget error ind	icators and arr	21/0			
CSR		Keset ellor ind	icacors and arr	ays.			
CSR			MOVE *ALL'0'	\$RESET 39			
CER	CSR		MOVE *BLANK	\$REST1 63		S003-1	016100000000
CER							
C				@MK,2			
MINISTER SOUND CONTINUED SOUND CONTINUED C			CLEAR@ER				
CT							
MCCOLCER							
MCCOLCAN			CHAIN&01FORMAT		9899		
MCD01CS	MCU01C*					S003-1	02400000000
MCUDICES		Cost Center sec	urity edit.				
MCDICES							
MUDICES # STAIT 1998:17 **EXENCE CORD							
MCD01CSR		# 11177		#MCO			
MCUDICES							
MCUDICSE							
MCUDICES HEATT IFNE '1' MCUDICES HEATT ANDRE'1' C' C' If security violation, set error condition. C' C' If security violation, set error condition. COR HEATT ANDRE'1' MCUDICES HEATT ANDRE'1' C' C' If security violation, set error condition. S003-1 03500000000 C' C' If security violation, set error condition. S003-1 04100000000 COR HEATT ANDRE'1' COR HEATT ANDRE HEATT AND HE							
MCUOLICES HANDY ANDMR:1' MCUOLICES HANDY NOVE 1' SSECK 1 S003-1 03000000000 MCUOLICES HANDY NOVE 1' SSECK 1 S003-1 037000000000 MCUOLICES HOT SSECK 1 SO03-1 037000000000 C' If security violation, set error condition. S003-1 040000000000 C' CS SSECK 1FEQ 1' SMK, 8 S003-1 0400000000000000000000000000000000000							
MCUDICES							
MCUDICSR END SO03-1 0370000000000							
C' If security violation, set error condition. S003-1 0380000000000		#MAUT		ŚŚSECP 1			
C*				AADECK T			
C* If security violation, set error condition. C* 158							
CSR \$\$SECR IFEQ '1' CSR NOVE '1' \$MMT, 8 S003-1 044000000000 CSR SETON 9341 \$003-1 0440000000000000000000000000000000000	C*	If security vio	lation, set err	or condition	n.		
CSR						S003-1	04100000000
CSR		\$\$SECR		_			
CSR				@MK,8	0241		
CSR GOTO ENDOO3 C*				¢¢೮೯೧ಾ 1	9341		
C*				PARECK I			
C* Edit result of read and action code. \$303-1 05000000000 C* \$303-1 05000000000 C* \$303-1 05100000000 CSR *IN98 IFEQ '1' \$303-1 05200000000 CSR *IN21 COMP '0' 41 *error* \$303-1 05300000000 CSR *IN21 COMP '1' 41 *error* \$303-1 05400000000 CSR END B0010 -STD/M - Action Code \$303-1 05400000000 CSR END Action Code \$303-1 05500000000 C* If indicator 41 on, invalid key for action code. \$303-1 05500000000 C* If indicator Y1 on, invalid key for action code. \$303-1 05500000000 CSR *IN41 IFFE '1' \$303-1 0500000000 CSR *IN41 IFFE '1' \$303-1 0600000000 CSR END 93 \$303-1 06300000000 C** If indicator 99 on, record in use. \$303-1 06300000000 C*							
C* Edit result of read and action code. \$0303-1 050000000000 C* *IN98 IFEQ '1' \$0303-1 05000000000 CSR *IN98 IFEQ '1' \$0303-1 05000000000 CSR *IN21 COMP '0' 41 *error* \$003-1 05000000000 CSR *IN21 COMP '1' 41 *error* \$003-1 05000000000 CSR *END B0010 - STD/M - Action Code DATE - 2/02/17 CSR END B0011 - STD/M - Action Code S003-1 05000000000 C* If indicator 41 on, invalid key for action code. \$003-1 05000000000 05700000000 CSR *IN41 IFEQ '1' 8003-1 05000000000 05700000000 CSR *IND *IFEQ '1' 8003-1 05000000000 05700000000 CSR *IND *STD/M 93 \$003-1 05000000000 05700000000 05700000000 05700000000 05700000000 057000000000 057000000000 057000000000 057000000	CSR		END			S003-1	04800000000
C*							
CSR		Edit result of	read and action	code.			
CSR	_	+ TNO 0	TEEO (1)				
CSR					41 *error*		
CSR		11121			11 01101		
CSR		*IN21			41 *error*		
C* If indicator 41 on, invalid key for action code. C* S003-1 058000000000 C* S003-1 059000000000 CSR *IN41 IFEC '1' 0MK, 2 S003-1 061000000000 CSR SETON 93 S003-1 061000000000 CSR SETON 93 S003-1 062000000000 CSR SETON 93 S003-1 062000000000 C* S003-1 063000000000 CSR *IN99 IFEQ '1' S003-1 065000000000 CSR 'IN99 IFEQ '1' S003-1 065000000000 CSR CALL 'P98RLCK' 81 S003-1 06700000000 CSR PARM ##PSDS S003-1 06700000000 CSR SETON 9341 S003-1 06700000000 CSR SETON 9341 S003-1 06700000000 CSR SETON 9341 S003-1 069000000000 CSR SETON 9341 S003-1 06900000000 CSR SETON 9341 S003-1 069000000000 C*	R93950		B0010	- STD/M	- Action Code		DATE - 2/02/17
C* If indicator 41 on, invalid key for action code. C* If indicator 41 on, invalid key for action code. C* SR *IN41 IFEC '1' S003-1 05000000000 CSR MOVE '1' eMK,2 S003-1 06100000000 CSR SETON 93 S003-1 06200000000 CSR SETON 93 S003-1 06200000000 C* S003-1 06200000000 CSR *IN99 IFEC '1' S003-1 06500000000 CSR SU03-1 06200000000 CSR SETON S003-1 06200000000 CSR SETON 9341 S003-1 0620000000 CSR SETON 9341 S003-1 0620000000 CSR SETON 9341 S003-1 0620000000 CSR SETON 9341 S003-1 06200000000 CSR SU03-1 06200000000 CSR SU03-1 06200000000 CSR SU03-1 06200000000 C* S003-1 07200000000 CSR S1N98 IFEQ '0' S003-1 072000000000 CSR S1N98 IFEQ '0' S003-1 072000000000 CSR S1N98 IFEQ '0' S003-1 07200000000000000000000000000000000000			END				
C* CSR *IN41 IFEQ '1'		-5 1 31					
CSR		If indicator 41	on, invalid ke	y for action	n code.		
CSR		*TN41	TEEO '1'				
CSR SETON 93 S003-1 06200000000 CSR END S003-1 06400000000 C* S003-1 06400000000 C* S003-1 06400000000 C* S003-1 06400000000 C* S003-1 06500000000 CSR S003-1 06500000000 CSR S003-1 06500000000 CSR S003-1 06700000000 CSR S003-1 06700000000 CSR S003-1 06700000000 CSR SETON S003-1 06720000000 CSR SETON S003-1 06720000000 CSR SETON S003-1 06720000000 CSR SO03-1 06720000000 CSR SO03-1 06720000000 CSR SO03-1 06720000000 CSR S003-1 0700000000 CSR S003-1 0700000000 CSR SO03-1 0700000000 CSR SO03-1 0700000000 CSR SO03-1 07000000000 CSR SO03-1 07000000000 CSR S003-1 070000000000 CSR S003-1 070000000000 CSR S003-1 070000000000 CSR S003-1 07000000		11111		@MK,2			
C* If indicator 99 on, record in use.				*	93		
C* If indicator 99 on, record in use.			END				
C*		-6 1 11	_ ,				
CSR *IN99 IFEQ '1' CSR CALL 'P98RLCK' 81 S003-1 06710000000 CSR CALL 'P98RLCK' 81 S003-1 06720000000 CSR PARM ##PSDS S003-1 067300000000 CSR MOVE '1' @MK,6 S003-1 06800000000 CSR SETON 9341 S003-1 06900000000 CSR END S003-1 07000000000 C* S003-1 071000000000 C* S003-1 071000000000 C* S003-1 071000000000 C* S003-1 072000000000 C* S003-1 073000000000 C* S003-1 07300000000000000 C* S003-1 07300000000000000000000000000000000000		It indicator 99	on, record in	use.			
CSR		* T N 1 Q Q	TEEO '1'				
C*		11177			81		
CSR							
CSR SETON 9341 S003-1 069000000000 CSR END S003-1 071000000000 C* S003-1 07100000000 C* S003-1 07200000000 C* S003-1 07300000000 C* S003-1 07300000000 C* S003-1 07300000000 C* S003-1 07300000000 C* S003-1 07500000000 C* S003-1 07500000000 C* S003-1 07500000000 C* S003-1 07500000000 C* S003-1 07600000000 C* S003-1 07600000000 C* S003-1 07700000000 C* S003-1 07700000000 C* S003-1 07700000000 C* S003-1 07900000000 CSR *IN98 IFEQ '0' S003-1 07900000000 CSR *IN99 ANDEQ'0' S003-1 0800000000 CSR EXCPTUNLOCK S003-1 0800000000 CSR EXCPTUNLOCK S003-1 08100000000 C* S003-1 081000000000 C* S003-1 081000000000 C* S003-1 081000000000 C* S003-1 08100000000 C* S003-1 08100000000 C* S003-1							
CSR END S003-1 07000000000 C*				@MK,6	0044		
C*					9341		
C* S003-1 072000000000 C* If not inquiry, skip remainder of subroutine. S003-1 073000000000 C* \$003-1 07400000000 CSR *IN24 CABEQ'0' END003 \$003-1 07500000000 C* \$003-1 07600000000 0700000000 C* \$003-1 07700000000 0700000000 C* \$003-1 07900000000 07900000000 C* \$003-1 07910000000 07900000000 CSR *IN98 IFEQ '0' \$003-1 079200000000 CSR *IN99 ANDEQ'0' \$003-1 08000000000 CSR EXCPTUNLOCK \$003-1 08100000000 CSR END \$003-1 08100000000 C* \$003-1 08200000000 C* \$003-1 08300000000 C* \$003-1 08500000000 C* \$003-1 08600000000 C* \$003-1 08600000000 C* \$003-1 08600000000 C* \$003-1 08600000000							
C* If not inquiry, skip remainder of subroutine. \$003-1 073000000000 C* \$003-1 075000000000 C* \$003-1 075000000000 C* \$003-1 07600000000 C* \$003-1 07700000000 C* \$003-1 077000000000 C* \$003-1 07900000000 C* \$003-1 07900000000 C* \$003-1 07900000000 CSR *IN98 IFEQ '0' \$003-1 0790000000 CSR *IN99 ANDEQ'0' \$003-1 0800000000 CSR EXCEPTUNLOCK \$003-1 08100000000 CSR END \$003-1 08100000000 C* \$003-1 08100000000 C* <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
C*		If not inquiry,	skip remainder	of subrout	ine.		
C* S003-1 076000000000 C* S003-1 0770000000000 C* S003-1 077000000000 C* S003-1 077000000000 C* S003-1 077000000000 C* S003-1 07900000000 C* S003-1 079000000000 C* S003-1 07900000000000000000000000000000000000							07400000000
C*		*IN24	_				
C* S003-1 07800000000 C* Release record lock on master file. S003-1 07900000000 C* S003-1 07910000000 CSR *IN98 IFEQ '0' S003-1 07920000000 CSR *IN99 ANDEQ'0' S003-1 08000000000 CSR EXCPTUNLOCK S003-1 08100000000 CSR END S003-1 08100000000 C* S003-1 08200000000 C* S003-1 08300000000 CSR *IN93 CABEQ'1' END003 S003-1 08500000000 C* S003-1 08600000000 00000000 C* S003-1 08600000000 C* S003-1 08600000000							
C* Release record lock on master file. \$003-1 079000000000 C* \$003-1 07910000000 CSR *IN98 IFEQ '0' \$003-1 07920000000 CSR *IN99 ANDEQ'0' \$003-1 08000000000 CSR EXCPTUNLOCK \$003-1 08100000000 CSR END \$003-1 08100000000 C* \$003-1 08200000000 C* \$003-1 08300000000 CSR *IN93 CABEQ'1' ENDO03 \$003-1 08500000000 C* \$003-1 08600000000 C* \$003-1 08600000000 C* \$003-1 08800000000							
C* \$003-1 07910000000 CSR *IN98 IFEQ '0' \$003-1 07920000000 CSR *IN99 ANDEQ'0' \$003-1 08000000000 CSR EXCPTUNLOCK \$003-1 08100000000 CSR END \$003-1 08100000000 C* \$003-1 08200000000 C* \$003-1 08300000000 CSR *IN93 CABEQ'1' ENDO03 \$003-1 08500000000 C* \$003-1 08500000000 C* \$003-1 08700000000 C* \$003-1 08700000000 C* \$003-1 08700000000		Peleage record	lock on master	file			
CSR *IN98 IFEQ '0' CSR *IN99 ANDEQ'0' CSR EXCPTUNLOCK CSR END C* C* C* C* CSR *IN93 CABEQ'1' ENDO03 CSR *IN93 CABEQ'1' ENDO03 C*		verease tecold	TOOK OH MASLEE	rite.			
CSR *IN99 ANDEQ'0' CSR EXCPTUNLOCK S003-1 08000000000 CSR END S003-1 08100000000 C* S003-1 08200000000 C* If errors, skip remainder of subroutine. S003-1 08200000000 C* S003-1 083000000000 C* S003-1 08400000000 CSR *IN93 CABEQ'1' END003 S003-1 08500000000 C* S003-1 08600000000 C* S003-1 08600000000 C* S003-1 08600000000 C* S003-1 086000000000 C* S003-1 086000000000		*IN98	IFEQ '0'				
CSR EXCPTUNLOCK S003-1 081000000000 CSR END S003-1 081000000000 S003-1 08100000000 S003-1 08100000000 S003-1 082000000000 S003-1 082000000000 S003-1 082000000000 S003-1 08200000000 S003-1 082000000000 S003-1 0820000000000 S003-1 0820000000000 S003-1 082000000000 S003-1 082000000000 S003-1 082000000000 S003-1 082000000000000 S003-1 082000000000000 S003-1 0820000000000000 S003-1 08200000000000000000000000000000000000							
C* S003-1 08200000000 C* If errors, skip remainder of subroutine. S003-1 083000000000 C* S003-1 08400000000 CSR *IN93 CABEQ'1' END003 S003-1 08500000000 C* S003-1 08600000000 C* S003-1 08700000000 C* S003-1 08800000000							
C* If errors, skip remainder of subroutine. S003-1 083000000000 C* \$003-1 08400000000 CSR *IN93 CABEQ'1' END003 \$003-1 08500000000 C* \$003-1 08600000000 C* \$003-1 08700000000 \$003-1 088000000000 C* \$003-1 088000000000 \$000000000 \$0000000000			END				
C* \$003-1 08400000000 CSR *IN93 CABEQ'1' END003 \$003-1 08500000000 C* \$003-1 08600000000 C* \$003-1 08700000000 C* \$003-1 08800000000	C*	TE					
CSR *IN93 CABEQ'1' END003 S003-1 085000000000 C* S003-1 08600000000 C* S003-1 08700000000 C* S003-1 08800000000	200	II errors, skip	remainder of s	uproutine.			
C* S003-1 08600000000 C* S003-1 08700000000 C* S003-1 088000000000							
C*	C*	*TNQ2	CAREO'1'	ENDUUS			
C* S003-1 08800000000	C* CSR	*IN93	_			S003-1	08500000000
C* Move data base information to video screen. S003-1 089000000000	C* CSR C*	*IN93	_			S003-1 S003-1	08500000000 08600000000
	C* CSR C* C*					S003-1 S003-1 S003-1 S003-1	085000000000 086000000000 08700000000 088000000000

9-94 JD Edwards World

Column					
COPY C					
CT			EXSR S004		
### STRONGS STRONGS STRONGS \$991-1 90-9000000000					
Section					
C					
### STRENGTTINE 8005 - Load Vision Sersem Data C		******	***********		
C					
Processing: Nove data base information to video screen. \$804-1 003080000000					
C Processing: 1. Nove data base information to vises excess.					
C					
CT C		Processing: 1.			
COPY C					
C					
C					
Date Fields must be converted from their					
C* Date fields must be converted from their 5004-1 013000000000 17 189300 189300 189300 189300 189300 189300 189300 189300 189300 189300 189300			display on screen.		
### 1000					
March Marc					
C				5004-1	
CT X0038. 8804 ABCGS 8004-1 015000000000 CC CT SUBBOTINE 2005 - SCRUB TRADE CONTROL TO STATE CONTROL TO STAT				0004 1	
C					
CER SO04 BESSE SO04-1 017000000000 DESCRIPTION 0180000000000000000000000000000000000			A0020.		
### Section		2004	DECCD		
March Car					
CER					
Comparison		ENTO 0.04	ENDSR		
C* SUBSOUTINE SOOS - Scrub Input					
C					
C* Processing: 1. Validate all video input. S005-1 003000000000 CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 00500000000 CC CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC Processing: 1. Validate all video input. S005-1 0050000000 CC CC Processing: 1. Validate Data Base CC Processing: 1. Validate Data Base S005-1 0050000000 CC CC Processing: 1. Validate Data Base S005-1 0050000000 CC CC Processing: 1. Validate Data Base S005-1 0050000000 CC CC Processing: 1. Validate Data Base S005-1 00500000000 CC CC Processing: 1. Validate Processing: 1. Valid		SUBROUTINE SOOS	- Scrub Input		
C* Processing: 1. Validate all video input. C* Processing: 1. Validate all video input. C* All numeric fields must be processed C* C* Lift subroundines C0012 and C0015 in order C* C* Lift subroundines C0012 and C0015 in order C* Lift subroundines C0012 an			*		
C'					
C* All numeric fields must be processed C* thris subroutines C0012 and C0015 in order C* to scrub the alpha input field and convert C* to scrub the alpha input field and convert C* to scrub the alpha input field and convert C* thack to internal numeric representation of S005-1 03000000000 C* thack to internal numeric representation of S005-1 03000000000 C* thack to internal numeric representation of S005-1 01000000000 C* thack to their internal format of month, S005-1 01000000000 C* day and year or julian using program X0028. S005-1 01000000000 C* day and year or julian using program X0028. S005-1 01000000000 C* day and year or julian using program X0028. S005-1 01000000000 C* day and year or julian using program X0028. S005-1 01000000000 C* day and year or julian using program X0028. S005-1 01000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 015000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 025000000000 C* day and year or julian using program X0028. S005-1 0250000		Processing: 1.	Validate all video input.		
C* thru subroutines C0012 and C0015 in order C* to scrub the alpha input field and convert C* to scrub the alpha input field and convert C* back to internal numeric representation of C* Date fields must be converted from system CBR S005 BESSR CCR S005 BESSR CCR S005 BESSR CCR S005 BESSR CCR S005-1 01500000000 C* Tf not addition or change, bypass subroutine CCR S005-1 015000000000 CCR S005-1 0150000000000 CCR S005-1 0150000000000 CCR S005-1 0150000000000 CCR S005-1 0150000000000000000000000000000000					
C* to scrub the alpha input field and convert					
C* back to internal numeric representation of S005-1 000000000000					
C* 15 digits and 0 decimals. S005-1 010000000000 C*					
C*			15 digits and 0 decimals.	S005-1	01000000000
C* format to their internal format of month, S005-1 0130000000000000000000000000000000000	C*			S005-1	01100000000
C*	C*		Date fields must be converted from system	S005-1	012000000000
C* 2. Update data record fields from video.	C*		format to their internal format of month,	S005-1	01300000000
C* SOUTH SOLD - Update Data Base SOUTH SOLD - Update Data Base SOUTH SOLD - Update Odds - SOUTH SOLD -	C*		day and year or julian using program X0028.	S005-1	01400000000
CSR	C*	2.	Update data record fields from video.	S005-1	01500000000
C*					
C* C* C* If not addition or change, bypass subroutine C* C* If not addition or change, bypass subroutine C* C* If not addition or change, bypass subroutine C* CSR *IN21 IFEQ '0' S005-1 02200000000 CSR CSR *IN22 ANDEQ'0' S005-1 02300000000 CSR CSR END CSC CSR END S005-1 025000000000 CSR CSR END S005-1 025000000000 C* CSR END S005-1 025000000000 C* CSR END S005-1 026000000000 C* CSR CSR END S005-1 026000000000 C* CSR S010-1 01000000000 C* CSR S010-1 01000000000 C* CSR S010-1 0000000000 C* CSR S010-1 00000000000 C* CSR S010-1 0000000000 CSR ACSR S010-1 01000000000 CSR CSR S010-1 010000000000 CSR CSR S010-1 01000000000 CSR CSR S010-1 010000000000 CSR CSR S010-1 010000000000000000000000000000000					
C* If not addition or change, bypass subroutine C* 18					
C*					
CSR *1N21 IFEQ '0' S005-1 022000000000 CSR CSR CSR COTO ENDOOS S005-1 023000000000 CSR		If not addition	or change, bypass subroutine		
CSR					
CSR					
C*		*IN22			
CSR					
C* S005-1 028000000000 C28 S005-1 029000000000 C3000000000 C30000000000					
FIRELDC*			END		
COPY C** C* SUBROUTINE S010 - Update Data Base					
COPY C**		EMBOOF	ENDOD		
C* SUBROUTINE S010 - Update Data Base \$010-1 00200000000 C*					
C* SUBROUTINE SOLO - Update Data Base \$5010-1 002000000000 C*					
C*		SUBROUTING SOLO	- Update Data Base		
C* C*					
C* Processing: 1. Update data base file based upon valid \$510-1 005000000000 C* action codes. \$510-1 005000000000 CSR \$510 BEGSR \$510-1 00800000000 C* \$510-1 00800000000 AC* \$510-1 01000000000 \$510-1 AC* \$510-1 01000000000 \$510-1 AC* \$510-1 01000000000 \$510-1 AC* \$510-1 01200000000 \$510-1 AC* \$510-1 01200000000 \$510-1 AC* \$510-1 01200000000 \$510-1 AC* \$510-1 01200000000 \$510-1 AC* \$510-1 01500000000 \$510-1 AC* \$510-1 01500000000 \$510-1 CC* \$510-1 01500000000 \$510-1 CC* \$510-1 01500000000 \$510-1 01500000000 CC* \$510-1 017000000000 \$510-1 01000000000					
C* action codes. C* SID1-1 00600000000 C* SID1-1 007000000000 C* SID1-1 007000000000 C* SID1-1 0070000000000 AC* SID1-1 009000000000 AC* SID1-1 009000000000 AC* SID1-1 010000000000 ACSR *IN21 FEQ '1' CC* SID1-1 015000000000 ACSR SID1-1 015000000000000000000000000000000000		Processing: 1	Update data base file based upon valid		
C*					
CSR					
C*	CSR	S010	BEGSR		
AC*					
## AC*	AC*			S010-1	01000000000
AC*	AC*	If add action, a	add record.	S010-1	01100000000
MF ACSR % WRITE&01FORMAT 99 \$010-1 014000000000 0150000000000 0150000000000 0150000000000 01500000000	AC*			S010-1	
ACSR CC* CC* S010-1 015000000000 CC* CC* S010-1 015000000000 CCSR * IN22 IFEQ '1' S010-1 015000000000 CCSR * UPDAT&01FORMAT 99 S010-1 02000000000 CCSR * IN23 IFEQ '1' S010-1 02000000000 CCSR * IN23 IFEQ '1' S010-1 02000000000 CCSR * UPDAT&01FORMAT 99 S010-1 025000000000 CC* CCSR & DELET&01FORMAT 99 S010-1 02500000000 CC* CCSR & MOVE #FCLR @@AID S010-1 02000000000 CCSR & S010-1 02000000000 CCSR & EXSR S001 CCSR & END010 ENDSR S010-1 03000000000 CCSR & S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR & S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR & S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR S010-1 03000000000 CCSR & END010 ENDSR S010-1 03000000000 CCSR S010-1 03000000000 CCSR S010-1 030000000000 CCSR S010-1 03000000000 CCSR S010-1 0		*IN21			
CC*		8			
CC*			END		
CC*					
CCSR		If change action	ı, update record.		
MF CCSR % UPDAT&01FORMAT 99 S010-1 020000000000 R93950 B0010 - STD/M - Action Code DATE - 2/02/17 DC* DC* S010-1 022000000000 DC* S010-1 022000000000 DC* S010-1 02300000000 DCSR *IN23 IFEQ '1' S010-1 02500000000 MF DCSR END S010-1 02500000000 DCSR END S010-1 02500000000 C* C S010-1 02600000000 C* Clear data field for next transaction S010-1 02900000000 C* CSR MOVE #FCLR @@AID S010-1 03100000000 C* CSR EXSR S001 S010-1 03200000000 C*					
CCSR					
R93950 B0010 - STD/M - Action Code S010-1 0220000000000000000000000000000000		*			
DC*				SU10-1	
DC*			BUUIU - STD/M - Action Code	0010 1	
DC*		TE 401 '''	dolate regard		
DCSR		ii delete action	i, defete record.		
MF DCSR % DELET&01FORMAT 99 S010-1 026000000000 CSR END S010-1 0270000000000 C* S010-1 028000000000 C* S010-1 029000000000 CSR MOVE #FCLR @@AID S010-1 03000000000 CSR EXSR S001 S010-1 03200000000 C* S010-1 033000000000 C* S010-1 033000000000 COPY C************************************		* TMT 2	TEE('1'		
DCSR END S010-1 02700000000 C* S010-1 02800000000 C* S010-1 02800000000 C* S010-1 02900000000 C* S010-1 02900000000 C* S010-1 0300000000 S010-1 0300000000 CSR EXSR S001 S010-1 03100000000 C* S010-1 03200000000 C* S010-1 03200000000 C* S010-1 03200000000 C* S010-1 03200000000 CSR END010 ENDSR S010-1 03400000000 COPY C************************************					
C* Clear data field for next transaction S010-1 028000000000 C* Clear data field for next transaction S010-1 0290000000000 CSR MOVE #FCLR @@AID S010-1 03100000000 CSR EXSR S001 S010-1 032000000000 C* S010-1 032000000000 C* S010-1 03400000000 CSR END010 ENDSR S010-1 03400000000 COPY C************************************		-0			
C* Clear data field for next transaction S010-1 029000000000 C* S100-1 030000000000 S100-1 030000000000 S100-1 031000000000 S100-1 0310000000000000000000000000000000					
C* S010-1 03000000000 CSR MOVE #FCLR @@AID S010-1 03100000000 CSR EXSR S001 S010-1 032000000000 C* S100-1 03300000000 CSR END010 ENDSR S010-1 03400000000 COPY C************************************		Clear data fici	for next transaction		
CSR MOVE #FCLR @@AID S010-1 031000000000 CSR EXSR S001 S010-1 032000000000 C* S010-1 033000000000 CSR END010 ENDSR S010-1 03400000000 COP C**********************************		cicui uaca iiel(LOT MENE CLAMBACCIUM		
CSR EXSR S001 S010-1 032000000000 C* S010-1 033000000000 S010-1 033000000000 S010-1 03400000000 S010-1 03400000000 S010-1 03400000000 S010-1 03400000000 S010-1 035000000000 S010-1 035000000000 S010-1 035000000000			MOVE #ECLE @@AID		
C* S010-1 033000000000 CSR END010 ENDSR S010-1 034000000000 COPY C************************************					
CSR END010 ENDSR S010-1 034000000000 COPY C************************************					
COPY C************************************		END010			
	COPY C****				

C*	SUBROUTINE S99	8 - Load dicti	onary paramete	ers.	S999-1	00200000000	
C*					S999-1	00300000000	
C*					S999-1	00400000000	
CSR	S998	BEGSR			S999-1	00500000000	
C*					S999-1	00600000000	
DPARMC*					S999-1	00700000000	
C*					S999-1	00800000000	
C*	Set subroutine	execution flag			S999-1	00900000000	
C*			+000		S999-1	01000000000	
CSR		MOVE '1'	\$998 1		S999-1	01100000000	
C*	TINTO O O O	ENDOD			S999-1	012000000000	
CSR C**		ENDSR		******	S999-1	013000000000	
C*					S999-1 S999-1	01400000000 01500000000	
C*	CIIDDOITTINE COO	9 - Housekeepi	na		S999-1	016000000000	
C*		- Housekeepii			S999-1	017000000000	
C*					S999-1	018000000000	
C*	Processing: 1	. Load video s	creen text.		S999-1	019000000000	
C*		. Retrieve scr		area. test	S999-1	02000000000	
C*			ized access, o		S999-1	021000000000	
C*			ve to video so		S999-1	02200000000	
C*	3	. Initialize k			S999-1	02300000000	
C*		. Load roll ke			S999-1	02400000000	
C*	5	. Passed param	eters.		S999-1	025000000000	
C*	6	. Load error m	essage array.		S999-1	02600000000	
C*					S999-1	02700000000	
CSR	S999	BEGSR			S999-1	02800000000	
C*					S999-1	02900000000	
C*					S999-1	03000000000	
C*	Required progr	am parameters.			S999-1	03100000000	
C*					S999-1	03200000000	
ENTRYCSR	*ENTRY	PLIST			S999-1	03300000000	
AUTOIC*					S999-1	03400000000	
					S999-1	035000000000	
C*	T2 12				S999-1	03600000000	
C*	Load video scr	een text.			S999-1	037000000000	
C*		MOMETAGETTE	DOVET 10		S999-1	03800000000 03900000000	
CSR VTXI C*		MOVEL@@FILE	PSKEY 10		S999-1		
	OPY JDECPY, COOSC				S999-1 S999-1	04000000000 04100000000	
					S999-1 S999-1	04200000000	
/*					S999-1	04300000000	
/*	If processing	options exist,	load processin	ng options	S999-1	04400000000	
/*	Processing	CAIDO,	processii	J	S999-1	045000000000	
R93950		B0010	- STD/M	- Action Code	2,,, 1	DATE - 2/02/17	
+FLDNC*	*OPTION	ZOPTIONX			S999-1	04600000000	
KLISTC*	3111011				S999-1	047000000000	
C*					S999-1	048000000000	
C*	Load roll key	upper and lower	kev values.			04900000000	
					S999-1		
C*					S999-1 S999-1	05000000000	
C* MF CSR	_	DEFN &01KEYFL	_				
MF CSR CSR	*LIKE	DEFN &01KEYFLI	D \$RUKEY \$RDKEY		S999-1 S999-1 S999-1	05000000000 05100000000 05200000000	
MF CSR CSR CSR	*LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL	D \$RUKEY \$RDKEY \$RUKEY		S999-1 S999-1 S999-1 S999-1	050000000000 051000000000 05200000000 053000000000	
MF CSR CSR CSR CSR	*LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY		S999-1 S999-1 S999-1 S999-1 S999-1	05000000000 05100000000 05200000000 05300000000 05400000000	
MF CSR CSR CSR CSR C*-	*LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY		S999-1 S999-1 S999-1 S999-1 S999-1 S999-1	05000000000 05100000000 05200000000 05300000000 05400000000 055000000000	
MF CSR CSR CSR CSR C*- C*-	*LIKE	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY		S999-1 S999-1 S999-1 S999-1 S999-1 S999-1	050000000000 051000000000 05200000000 05300000000 05400000000 055000000000 05600000000	
MF CSR CSR CSR CSR C*- C*-	*LIKE	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY		\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	05000000000 051000000000 05200000000 05300000000 05400000000 055000000000 057000000000	
MF CSR CSR CSR CSR C*- C*- C*	*LIKE *LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	SRUKEY \$RDKEY \$RUKEY \$RUKEY		\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	05000000000 05100000000 05200000000 05300000000 05400000000 05500000000 05600000000 05700000000 05800000000	
MF CSR CSR CSR C*- C*- C* C* C*	*LIKE *LIKE Load error mes	DEFN &01KEYFLL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY 	Inv Action	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05300000000 05400000000 05400000000 05600000000 057000000000 05800000000 05900000000	
MF CSR CSR CSR C*- C*- C*- C*- C*- CSR	*LIKE *LIKE Load error mes	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY 	Inv Action Inv Key	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05200000000 05300000000 05400000000 055000000000 057000000000 058000000000 058000000000 059000000000 06000000000	
MF CSR CSR CSR CSR C*- C* C* C* C* CSR CSR CSR CSR CSR CSR CSR	*LIKE *LIKE Load error mes	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0003'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY \$RDKEY EMK,01 EMK,02 EMK,03	Inv Action Inv Key Inv Blanks	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	05000000000 05100000000 05200000000 05300000000 05400000000 05600000000 05700000000 05900000000 05900000000 05900000000	
MF CSR CSR CSR C*- C* C* C* CSR CSR C*- C* CSR CSR CSR CSR CSR CSR	*LIKE *LIKE Load error mes	DEFN &01KEYFLL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0003' MOVE '0004'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04	Inv Action Inv Key Inv Blanks Inv Date	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05300000000 05400000000 05500000000 05600000000 05700000000 05900000000 06000000000 061000000000 06200000000	
MF CSR CSR CSR CSR CSR C*- C* C* C* CSR	*LIKE *LIKE *LOAD error mes	DEFN &01KEYFLD DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' Sages array. MOVE '0001' MOVE '0002' MOVE '0003' MOVE '0004' MOVE '0005'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY 	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05200000000 05300000000 05400000000 055000000000 05700000000 05800000000 05800000000 06000000000 06100000000 06200000000 06300000000	
MF CSR CSR CSR CSR C*- C* C* C* CSR	*LIKE *LIKE *LOAD error mes	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0003' MOVE '0004' MOVE '0004' MOVE '0005' MOVE '0007'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	05000000000000000051000000000000000000	
MF CSR CSR CSR CSR C*- C*- C*- C*- CSR	*LIKE *LIKE Load error mes	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0003' MOVE '0004' MOVE '0005' MOVE '0005' MOVE '0025'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,06 EMK,07	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05300000000 05400000000 05500000000 05600000000 05700000000 05700000000 05900000000 060000000000 061000000000 06200000000 06300000000 06400000000	
MF CSR CSR CSR CSR C*- C* C* C* CSR	*LIKE *LIKE *LOAD error mes	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY 	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values Inv MCU	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05200000000 05300000000 05400000000 05600000000 05700000000 05700000000 05800000000 06000000000 06100000000 06200000000 06300000000 06400000000 065000000000 065000000000	
MF CSR CSR CSR C*- C*- C*- CSR CSR CSR CSR CSR CSR CSR CSR	*LIKE *LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0003' MOVE '0004' MOVE '0005' MOVE '0005' MOVE '0025'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,07 EMK,07 EMK,08 EMK,08	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05300000000 05400000000 05500000000 05600000000 05700000000 05700000000 05900000000 060000000000 061000000000 06200000000 06300000000 06400000000	
MF CSR CSR CSR CSR C*- C* C* C* CSR	*LIKE *LIKE	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RDKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,07 EMK,07 EMK,08 EMK,08	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values Inv MCU Inv Desc Ttl	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	05000000000000000051000000000000000000	
MF CSR CSR CSR C*- C* C* CSR	*LIKE *LIKE *LOAD error mes	DEFN &01KEYFL DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,07 EMK,08	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values Inv MCU Inv Desc Ttl	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05200000000 05300000000 05400000000 05600000000 05700000000 06000000000 06100000000 06200000000 06300000000 06400000000 06500000000 065000000000 065000000000 06700000000	
MF CSR	*LIKE *LIKE *LOAD error mes	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0004' MOVE '0005' MOVE '0005' MOVE '0025' MOVE '0026' MOVE '0027'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,07 EMK,08	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values Inv MCU Inv Desc Ttl	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 051000000000 05200000000 05300000000 054000000000 05600000000 05700000000 05800000000 06900000000 06100000000 06200000000 06400000000 06400000000 06500000000 06500000000 06600000000 067000000000 067000000000	
MF CSR	*LIKE *LIKE Load error mes	DEFN &01KEYFLI DEFN \$RUKEY MOVE *LOVAL MOVE *ALL'9' sages array. MOVE '0001' MOVE '0002' MOVE '0004' MOVE '0005' MOVE '0005' MOVE '0025' MOVE '0026' MOVE '0027'	D \$RUKEY \$RDKEY \$RUKEY \$RUKEY \$RDKEY EMK,01 EMK,02 EMK,03 EMK,04 EMK,05 EMK,06 EMK,07 EMK,08	Inv Action Inv Key Inv Blanks Inv Date Inv Next Nbr In Use Inv Values Inv MCU Inv Desc Ttl	\$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1 \$999-1	050000000000 05100000000 05200000000 05300000000 05400000000 055000000000 05600000000 05700000000 05900000000 0600000000 06200000000 06300000000 0640000000 06500000000 06700000000 06700000000 06700000000	
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9-96 JD Edwards World

C***************	S999-1	097000000000	
/*	S999-1	09800000000	
/* If processing options exist, include copy module	S999-1	09900000000	
/*	S999-1	10000000000	
+FLDNC* *OPTION ZOPTIONC	S999-1	101000000000	
COPY C******************	S999-1	10200000000	
MF O&01FMT E UNLOCK	S999-1	10300000000	

Appendix G - Functional Servers

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:

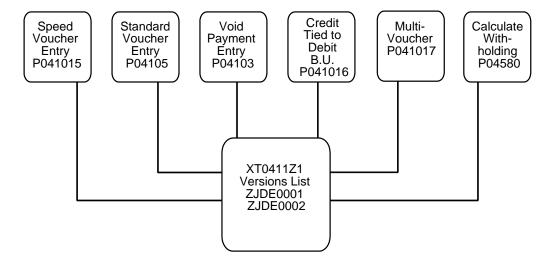
- **1.** Create a DREAM Writer version for a specific functional server program (for example, XT0411Z1 for voucher entry).
- **2.** Set the processing options within the version according to your company requirements.
- **3.** Specify the version you want the entry program to use in the processing options 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 *Technical Tools Guide*.

Example: Voucher Processing Functional Server

The following graphic includes the programs that use the voucher processing functional server. JD Edwards World provides two demo versions of the functional server, ZJDE0001 and ZJDE0002.



9-100 JD Edwards World

Index

Miscellaneous	building, 7-19 overview, 7-19
#ENTERNA DI ICT. 1 ' 0.50	viewing, 7-20
*ENTRY PLIST entries, 3-52	Adding
_	new Q & A dialogue, 8-39
A	PDL to a field, 4-21
A0040 T	Additional tools, 7-1
A0010 — Interactive Subfile Inquiry program, 9-9	All help instructions, 8-14
A0020 — Interactive Single Record Inquiry	Answer Entry screen (P98552), 8-39, 8-40
program, 9-10	Application development cycle, 1-1
Abbreviations for the program types index, 8-7	Arrays for EMK, @MK and @ER, 9-5
About	Assignments in PDL, 4-7
abbreviations for the program types index, 8-7	Authorities for objects, 2-17
action diagramming, 7-19	
additional tools, 7-1	D
changing generated source, 5-3	В
clone status all/only active toggle, 8-10	B0010 — Interactive Single Record Maintenance
creating or modifying program types, 8-7	program, 9-11
edit screen, 3-30	Blocks of statements, 4-5
foundation information, 2-1	Browse for screens or reports using quick start, 7-
glossary K, 8-10	12
logic modules, 8-13	Browse screen, 3-52, 3-59
master source code, 1-6	Build Action Diagrams screen (P98300), 7-19
option and function exits, 3-33	Building an action diagram, 7-19
options for program types, 8-8	bullating art action diagram, 7-17
program design language, 4-1	•
program generator, 1-6	C
program specifications, 1-6	C0010 Batch Roport with Totals program 0.12
program types, 1-6	C0010 — Batch Report with Totals program, 9-12 C0020 — Batch Report with Totals and
program types cross reference, 8-9	
program types index, 8-8	Subheadings program, 9-13 C0025 — Batch Report with Totals and
quick start application tool, 7-7	Subheadings program, 9-14
quick start CL generator, 7-3	0 . 0
source modifications, 5-1	CAD, 1-1 CAP
special characters, 3-27	
the detailed programming facility screen, 3-39	overview, 1-1
user defined PDL, 8-51	status
using the source code inventory and database, 8-	changing, 5-8 to correct invalid error, 5-10
1	CASE
Accessing	benefits, 1-4
CASE profiles, 2-13	menus, 1-8
data item formula revisions, 4-21	profiles
logic translation feature, 7-24	accessing, 2-13
program generator, 3-3	understanding, 2-12
program generator options, 3-5	program types, 9-9
program generator specifications, 3-3	specifications inquiry overview, 8-23
quick start CL generator, 7-3	CASE Profiles screen (P98009), 2-14
the logic module index, 8-15	CASE Specifications Inquiry screen (P93130), 8-24
Action diagram	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Changing a dialogue, 8-44 CAP status, 5-8	D0040 — Interactive Subfile Maintenance with Action Code, with Options, by Key program, 9-19
program specifications, 7-13 Checklist	D0050 — Interactive Subfile Maintenance with Two Master Files, with Action Code, with
data file design aid, 9-1	Options, by Relative Record Number program, 9-20
program generator, 9-2 report design aid, 9-2	D0060 - Interactive Subfile Maintenance with
screen design aid, 9-1	Action Code, without Options, by Key program,
CL	9-22
overview, 5-11	D0070 — Interactive Subfile Maintenance with
program compile using quick start, 7-5	Action Code, with Options, by Relative Record
Comments in PDL, 4-6	Number program, 9-23
Compiling	D0080 — Interactive Subfile Maintenance without
CL programs using quick start, 7-5	Action Code, with Options, by Relative Record
using quick start, 7-12, 7-14	Number program, 9-24
Computer Assisted Design, 1-1	D0090 — Interactive Subfile Maintenance with
Computer Assisted Programming, 1-1	Action Code, without Options, by Relative
Concepts and terms, 1-4	Record Number, Balance program, 9-26
Conditional directives, 8-35	D0100 — Interactive Subfile Maintenance with
Conditions in PDL, 4-11	Two Master Files, with Action Code, with
Control language, 5-11	Options, by Key program, 9-27
Copy File screen (CPYF), 2-10	Data dictionary
Copying	editing disabled, 3-55
a dialogue, 8-44	glossary update, 7-15
model control language, 5-11	Data fields to select using quick start, 7-11
program specifications, 8-20	Data file design aid checklist, 9-1
Create/Modify Logic Modules screen (P93001SEU), 8-18	Data Item Formula Revisions screen (P93109), 4-14, 4-19, 4-21, 8-55
Create/Modify Program Types screen (P93001), 8-	Data structure
11, 8-51	I00DSPROG source, 9-39
Creating	I00SC source, 9-40
*ENTRY PLIST entries, 3-52	Database operations in PDL, 4-8
a partial KLIST for a file, 3-56	Database update function for subfiles, 3-51
formula library entry, 8-19	Date and time standards, 9-8
JDESRC file for use with Program Generator, 2-	Define Generator Specification screen (P93100M),
10	3-9, 3-20, 3-29, 3-33, 3-39, 3-60, 5-8, 5-9, 8-53
logic modules, 8-18	Define Program Generator Specifications screen
report programs, 6-7	(P93100M), 3-5
subheadings, 6-12	Defining
total formats, 6-9	applications using quick start, 7-9
user defined PDL, 8-51	general instructions, 3-27
Customizing model control language, 5-12	option and function exits, 3-34
	processing options, 3-57
D	program purpose and type, 3-9
	Deleting a dialogue, 8-48
D0010 – Interactive Subfile Maintenance with	Detailed information, 1-5
Action Code, without Options, by Relative	CAD, 1-5
Record Number program, 9-15	CAP, 1-5
D0020 — Interactive Subfile Maintenance without	CASE profiles, 1-5
Action Code, without Options, by Relative	Detailed Programming Facility, 3-39, 6-4, 6-6
Record Number program, 9-16	Detailed Programming Facility screen (P93105), 3-
D0030 — Interactive Subfile Maintenance without	40, 3-56, 4-21, 8-54
Action Code, without Options, by Relative	Development libraries, 2-9
Record Number with Read Next Modified	Dialogue
Record program, 9-18	changing, 8-44 copying, 8-44

Index-2 JD Edwards World

deleting, 8-48	G
existing, 8-42	
rename, 8-45	General instructions for help text, 3-27
reviewing the flow, 8-43	Generated source code
running, 8-46	changing, 5-4
Dialogue Copy screen (P98536), 8-44, 8-45	from file specifications, 3-24
Dialogue Descriptions screen (P98541), 8-39	regenerating, 5-7
Dialogue Flow Revisions screen (P98531), 8-43	resolving errors, 5-9
Dialogue Lists screen (P98530), 8-43, 8-44, 8-45, 8-46	Generator Updates screen (P9366), 8-23
Dialogue Selection screen (P98533), 3-13, 8-47	Global program regeneration, 8-14
Dialogue Test screen (P98535), 8-46, 8-48	Glossary K, 8-10
Dialogue Test screen (P98537), 8-49	Glossary revisions screen (P92001), 7-16
Directives	Glossary updates, 7-15
conditional, 8-35	Guidelines for program types, 9-9
exception, 8-34	
functional, 8-25	Н
substitution, 8-32	
understanding, 8-25	Help file updates, 3-30
Disable data dictionary editing, 3-55	Help instructions
Display Action Diagram screen (P92705), 7-21, 7-23	rebuild for a single program, 8-14
DREAM Writer considerations for report formats,	rebuild for all programs, 8-14
6-14	Help Instructions Master file (F98HELP), 3-28
_	
E	I
E0010 — Interactive Window program, 9-28	I00DSPROG data structure source, 9-39
Edit screen, 3-28, 3-30, 8-22, 8-52	I00SC data structure source, 9-40
Editing, parsing, and source generation of PDL, 4-	Interactive non-subfile program flow, 9-82
17	
Enabling database update function for subfiles, 3-51	J
Error handling using arrays, 9-5	Job queues, 2-11
Exception directives, 8-34	job queues, 2 11
1	K
F	K
•	Keywords
Features, 1-3	in blocks of statements, 4-5
Field Definition screen, 6-10	in comments, 4-6
Field protection, 3-54	KLIST standards, 9-7
File specifications, 3-17	
File Specifications screen (P93102), 3-20, 3-24	L
Flows, 9-79	_
Formula library entry for creating or modifying, 8- 19	Line structure, 8-3 Loading VCO description fields, 3-47
Formula Library Entry screen (P93109), 4-13, 8-19	Locating Locating
Full data field parameters	a dialogue flow, 8-43
accessing, 3-42	screens or reports using quick start, 7-12
understanding, 3-42	Logic Module Cross Reference screen (P93952), 8-
Full Data Field Parameters screen (P93125), 3-43, 3-	15
48, 3-49, 3-51, 3-53, 3-54, 3-55	Logic modules, 8-13
Function exits	accessing the index, 8-14
previous profile, 2-17	creating or modifying, 8-18
Function exits set up, 3-33	detail, 8-13
Functional directives, 8-25	maintaining, 8-17
Functional servers	viewing cross reference, 8-15
example, 9-100	viewing op codes, 8-16
overview, 9-99	Logic translation feature, 7-24
	<u> </u>

Loops in PDL, 4-10	creating, 8-51 Prerequisites, 2-3
M	common user defined codes, 2-4
Materialis Indiana I day	Program Generator files, 2-3 source code for copy modules, 2-7
Maintaining logic modules	source code for JD Edwards World files, 2-7
remove logic module, 8-17	
resequence logic module, 8-17	Primary module, 8-10 Print Program Specification screen (P08200), 8-21
Master dialogue questions, 8-37	Print Program Specification screen (P98300), 8-21
Menus, 1-8	Printing program generator specifications, 8-21
Miscellaneous keywords and syntax in PDL, 4-13	Process for quick start, 7-7 Processing options defined 3.57
Model Control Language Programs	Processing Options defined, 3-57
customizing, 5-12	Processing Options Setup screen (P98304), 3-60 Program calls in PDL, 4-9
overview, 5-11	ě
provided by JD Edwards World, 5-12	Program Code sample, 9-87
Modifying	Program Design Language, See PDL
formula library entry, 8-19	Program Congretor
logic modules, 8-18	Program Generator
program specifications, 7-13	accessing, 3-3
Moving program specifications, 8-20	checklist, 9-2
Multi-member source file, 2-9	files, 2-3
	program design language, 2-4 Q & A dialogue, 2-4
N	source modifications/helps, 2-3
	specifications, 2-3
Naming convention standards, 9-7	merging updates, 8-23
New Q & A dialogue, 8-39	printing specifications, 8-21
	reviewing options, 3-5
0	specifications
	accessing, 3-3
Object authorities, 2-17	Program purpose and type definition, 3-9
job control, 2-17	Program Purpose and Type screen (P93100), 3-10,
job queues, 2-17	5-8
source file, 2-17	Program specifications
source library, 2-17	modifications using quick start, 7-13
Op Codes screen (P93108), 8-16	Program specifications to copy or move, 8-20
Operators in assignments, 4-7	Program types
Option & Function exits screen (P93104), 3-34	B0010 example, 9-87
Options	conversion, 1-7
defining, 3-33	creating or modifying, 8-7
overview, 3-33	cross reference, 8-9
	index, 8-8
P	interactive, 1-7
	report, 1-7
Parameter Copy/Move screen (P93890), 8-20	server, 1-7
Partial KLIST created for a file, 3-56	window, 1-7
PDL	Program Types
editing, parsing, and source generation	A0010 — Interactive Subfile Inquiry, 9-9
editing, 4-17	A0020 — Interactive Single Record Inquiry, 9-10
parsing, 4-17	B0010 — Interactive Single Record Maintenance
source code generation, 4-18	9-11
statements, 4-3	C0010 — Batch Report with Totals, 9-12
constants, 4-5	C0020 — Batch Report with Totals and
database files, 4-4 keywords, 4-4	Subheadings, 9-13
operations, 4-4	C0025 — Batch Report with Totals and
operations, 4-4	Subheadings, 9-14
punctuation, 4-5	D0010 — Interactive Subfile Maintenance with
variables, 4-4	Action Code, without Options, by Relative
user defined	Record Number, 9-15

Index-4 JD Edwards World

D0020 — Interactive Subfile Maintenance	P93102 (file specifications), 3-20, 3-24
without Action Code, without Options, by	P93104 (option & function exits), 3-33
Relative Record Number, 9-16	P93105 (detailed programming facility), 3-40, 3-
D0030 — Interactive Subfile Maintenance	56, 4-21, 8-54
without Action Code, without Options, by	P93108 (logic module op codes), 8-16
Relative Record Number with Read Next	P93109 (data item formula revisions), 4-14, 4-19,
Modified Record, 9-18	4-21, 8-55
D0040 — Interactive Subfile Maintenance with	P93109 (formula library entry), 4-13, 8-19
Action Code, with Options, by Key, 9-19	P93125 (full data field parameters), 3-43, 3-48, 3-
D0050 — Interactive Subfile Maintenance with	49, 3-51, 3-53, 3-54, 3-55
Two Master Files, with Action Code, with	P93130 (CASE specifications inquiry), 8-24
Options, by Relative Record Number, 9-20	P93513 (quick start application tool), 7-9
D0060 - Interactive Subfile Maintenance with	P93513J (quick start CL generator), 7-3
Action Code, without Options, by Key, 9-22	P93515V (quick start application tool), 7-11, 7-12,
D0070 — Interactive Subfile Maintenance with	7-13, 7-14, 7-15, 7-16
Action Code, with Options, by Relative	P93515V (quick start CL generator), 7-5
Record Number, 9-23	P9366 (generator updates), 8-23
D0080 - Interactive Subfile Maintenance	P93890 (parameter copy/move), 8-20
without Action Code, with Options, by	P93900 (program types index), 8-8
Relative Record Number, 9-24	P93952 (logic module cross reference), 8-15
D0090 — Interactive Subfile Maintenance with	P93953 (program types x-reference), 8-9
Action Code, without Options, by Relative	P98009 (CASE profiles), 2-14
Record Number, Balance, 9-26	P9801 (software versions repository), 2-14, 3-24
D0100 - Interactive Subfile Maintenance with	P98300 (build action diagrams), 7-19
Two Master Files, with Action Code, with	P98300 (print program specification), 8-21
Options, by Key, 9-27	P98304 (processing options setup), 3-57
E0010 — Interactive Window, 9-28	P98529 (simple question & answer), 8-38
guidelines, 9-9	P98530 (dialogue lists), 8-43, 8-44, 8-45, 8-46
overview, 9-9	P98531 (dialogue flow revisions), 8-43
X0010 — Batch Update with Report, 9-30	P98533 (dialogue selection), 3-13, 8-47
X0020 – Batch Update, 9-31	P98534 (quiz answer review), 8-47
X0030 — Batch Update with Subroutine S001, 9-	P98535 (dialogue test), 8-46, 8-48
32	P98536 (dialogue copy), 8-44, 8-45
X0040 - Batch Update with Report, 9-33	P98537 (dialogue test), 8-49
Y0010 — Conversion, Two Files with Error	P98541 (dialogue descriptions), 8-39
Report, 9-34	P98551 (question entry), 8-39
Y0020 — Conversion, One File Update with	P98552 (answer entry), 8-39, 8-40
Error Report, 9-35	RM/M (remove member), 2-11
Y0030 — Conversion, One File Write with Error	Project management, 2-11
Report, 9-36	Protecting fields from being cleared, 3-54
Program Types Index screen (P93900), 8-8	
Program Types X-Reference screen (P93953), 8-9	Q
Programming standards, 9-5	
Programs and IDs	Q & A dialogue, 8-39
CPYF (copy file), 2-10	Question and answer system overview, 8-37
edit, 8-22, 8-52	Question Entry screen (P98551), 8-39
P00051 (user defined code revisions), 2-4	Questions in a master dialogue, 8-38
P2710 (translation table), 7-24	Quick reference of program types, 9-9
P92001 (glossary revisions), 7-16	Quick Start
P92705 (display action diagrams), 7-21, 7-23	application tool overview, 7-7
P93001 (create/modify program types), 8-11, 8- 51	CL generator for creating programs, 6-3, 6-5, 7-3
	CL generator overview, 7-3
P93001SEU (create/modify logic modules), 8-18 P93100 (program purpose and type), 3-10, 5-8	generating subfile inquiry programs, 6-4
P93100M (define generator specification), 3-9, 3-	generator to create subfile maintenance programs, 6-6
20, 3-29, 3-33, 3-39, 3-60, 5-8, 5-9, 8-53	steps for process, 7-7
P93100M (define generator specifications), 3-5	Quick Start Application Tool screen (P93513), 7-9
1 30 100 mil (define generator opecinications), 5-5	Quick Juit 11ppilcution 1001 screen (1 /3013), 1=9

Quick Start Application Tool screen (P93515V), 7- 11, 7-12, 7-13, 7-14, 7-15, 7-16	Detailed Programming Facility, 3-40, 3-56, 4-21, 8-54
Quick Start C L Generator screen (P93515V), 7-5	Dialogue Copy, 8-44, 8-45
Quick Start CL Generator screen (P93513J), 7-3	Dialogue Descriptions, 8-39
Quiz Answer Review screen (P98534), 8-47	Dialogue Flow Revisions, 8-43
Quiz to determine program type, 8-48	Dialogue Lists, 8-43, 8-44, 8-45, 8-46
2 71 71	Dialogue Selection, 3-13, 8-47
D	Dialogue Test, 8-46, 8-48, 8-49
R	Display Action Diagram, 7-21, 7-23
RDA, 6-7	Edit, 3-28, 3-30, 8-22, 8-52
Rebuild help instructions, 8-14	Field Definition, 6-10
Record Formats List screen, 6-9, 6-13	File Specifications, 3-20, 3-24
Regenerating source code, 5-7, 8-14	Formula Library Entry, 4-13
Remove logic module, 8-17	Formula Library Entry, 8-19
Remove Member (RM/M), 2-11	Full Data Field Parameters, 3-43, 3-48, 3-49, 3-51,
Renaming a dialogue, 8-45	3-53, 3-54, 3-55
Report design aid	Generator Updates, 8-23
checklist, 9-2	Glossary, 7-16
Report Design Aid	Logic Module Cross Reference, 8-15
creating reports, 6-7	Op Codes, 8-16
Report format considerations for DREAM Writer,	Option & Function exits, 3-34
6-14	Parameter Copy/Move, 8-20
Report program with subheadings flow, 9-85	Print Program Specification, 8-21
Report program without subheadings flow, 9-84	Processing Options Setup, 3-60
Report programs subheadings and totals, 6-7	Program Purpose and Type, 3-10, 5-8
Reports or screens	Program Types Cross Reference, 8-9
browse or update using quick start, 7-11	Program Types Index, 8-8
compiling using quick start, 7-12	Question Entry, 8-39
Resequence logic module, 8-17	Quick Start Application Tool, 7-9, 7-11, 7-12, 7-
Reviewing	13, 7-14, 7-15, 7-16
a dialogue flow, 8-43	Quick Start CL Generator, 7-3, 7-5
questions, 8-38	Quiz Answer Review, 8-47
source modifications, 8-22	Record Formats List, 6-9, 6-13
RPG subroutines, 9-79	Remove Member, 2-11
Running a dialogue, 8-46	Simple Question & Answer, 8-38
Running a quiz, 8-48	Software Versions Repository, 2-14, 3-24
8 1 , , .	Source Entry Utility, 5-11
c	Translation Table, 7-24
S	User Defined Code Revisions, 2-4
Sample program code, 9-87	Screens or reports
SAR, 2-12	browse or update using quick start, 7-11
Screen design aid checklist, 9-1	compiling using quick start, 7-12
Screens	Selecting data fields using quick start, 7-11
Answer Entry, 8-39, 8-40	Serial numbers, 8-3, 8-4
Browse, 3-52, 3-59	Simple Question & Answer screen (P98529), 8-38
Build Action Diagrams, 7-19	Software Action Request, 2-12
CASE Profiles, 2-14	Software Versions Repository screen (P9801), 2-14,
CASE Specifications Inquiry, 8-24	3-24, 5-11
Copy File (CPYF), 2-10	Solving generation problems, 5-9
Create/Modify Logic Modules, 8-18	Source code
Create/Modify Program Types, 8-11, 8-51	for copy modules, 2-7
Data Item Formula Revisions, 4-14, 4-19, 4-21, 8-	for JD Edwards World World files, 2-7
55	inventory and database, 8-1
Define Generator Specification, 3-9, 3-20, 3-29, 3-	regenerating, 5-7
33, 3-39, 3-60, 5-8, 5-9, 8-53	when to regenerate, 5-7
Define Generator Specifications, 3-5	Source Entry Utility screen, 5-11
r	Source Listings, 9-39

Index-6 JD Edwards World

Source modifications	keywords and syntax, 4-6
about, 5-1	rules, 4-6
code review, 8-22	conditions
Source sequence line numbers, 8-3	keywords and syntax, 4-11
Source sequence line structure, 8-3	rules, 4-12
Source serial numbers, 8-3	symbols, 4-11
Special characters	database operations
about, 3-27	keywords and syntax, 4-8
within the help file, 3-28	rules, 4-9
Standards for programming, 9-5	directives, 8-25
Standards using functional servers, 9-99	full data field parameters, 3-42
Statements in PDL, 4-3	loops
Structure of serial numbers, 8-4	keywords and syntax, 4-10
Subfile Inquiry Program	rules, 4-10 miscellaneous keywords and syntax
components, 6-3	keywords and syntax, 4-13
overview, 6-3	rules for include, 4-13
special considerations, 6-4	rules for return, 4-15
Subfile Maintenance Program	program calls
components, 6-5	keywords and syntax, 4-9
overview, 6-5	rules, 4-9
special considerations, 6-6	source sequence line numbers, 8-3
Subfile program with options flow, 9-83	source sequence line structure, 8-3
Subfiles database update function, 3-51	source serial numbers, 8-3
Subheadings	structure of the serial number, 8-4
formats, 6-12	Updating
overview, 6-7	data dictionary, 7-15
Submit program to compile using quick start, 7-14	glossary, 7-15
Subroutines for RPG, 9-79	help file, 3-30
Substitution directives, 8-32	screens or reports using quick start, 7-12
Syntax	Usage indicator standards, 9-6
in assignments, 4-7	User Defined Code Revisions screen (P00051), 2-4
in blocks of statements, 4-5	User Defined Codes, 2-4
in comments, 4-6	User-provided prerequisites, 2-9
System integration, 1-1	Using
application development cycle, 1-1	CASE specifications inquiry, 8-23
fundamentals, 1-2	program generator updates, 8-23
history of program generator, 1-2	
specifications, 1-2	V
specifications, 1.2	Y
T	VCO description fields for screens, 3-47
Т	Viewing
Terms and concepts, 1-4	an action diagram, 7-20
Totaling	logic module cross reference, 8-15
formats, 6-9	logic module op codes, 8-16
overview, 6-7	
Translation Table screen (P92710), 7-24	W
Translation Tuble Screen (1 32/10), 7 21	**
U	Work field standards, 9-7
O	Working with
Understanding	file specifications, 3-17
assignments, 4-7	the question and answer system, 8-37
operator and syntax, 4-7	user provided prerequisites
rules, 4-7	development libraries, 2-9
blocks of statements, 4-5	job queues, 2-11
keywords and syntax, 4-5	multi-member source file, 2-9
rules, 4-5	overview, 2-9
CASE profiles, 2-12	project management, 2-11
comments	



X0010 — Batch Update with Report program, 9-30

X0020 — Batch Update program, 9-31

X0030 — Batch Update with Subroutine S001 program, 9-32

X0040 - Batch Update with Report program, 9-33



Y0010 — Conversion, Two Files with Error Report program, 9-34

Y0020 — Conversion, One File Update with Error Report program, 9-35

Y0030 — Conversion, One File Write with Error Report program, 9-36

Index-8 JD Edwards World