ASG-SmartQuest™ Installation Guide

Version 7.0
Publication Number: SQM0300-70
Publication Date: February 2003

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Contents

Preface

This *ASG-SmartQuest Installation Guide* provides information for installing ASG-SmartQuest (herein called SmartQuest). SmartQuest is a powerful yet easy-to-use tool for analyzing batch and CICS transaction abends. It has been designed to make the maximum use of simple point-and-shoot techniques to enable fast and easy navigation through any dump. An action bar, with associated pull-down screens, allows for rapid selection of all areas in the dump as well as other dump- or product-related information. Such features make the product easy to use and almost command free.

Allen Systems Group, Inc. (ASG) provides professional support to resolve any questions or concerns regarding the installation or use of any ASG product. Telephone technical support is available around the world, 24 hours a day, 7 days a week.

ASG welcomes your comments, as a preferred or prospective customer, on this publication or on any ASG product.

About this Publication

This publication consists of these chapters:

- Chapter 1, "Introducing SmartQuest," provides an introduction to ASG-SmartQuest.
- Chapter 2, "Installing SmartQuest," provides installation instructions for ASG-SmartQuest.
- Chapter 3, "Configuring and Customizing SmartQuest," describes how to customize ASG-SmartQuest for your system environment.
- Chapter 4, "Enabling SmartQuest," describes how to set parameter values for MVS and CICS.
- Chapter 5, "Starting SmartQuest," provides details for starting ASG-SmartQuest in MVS and CICS environments.

- Chapter 6, "Utilities," describes the offline utilities available to provide additional functions or to support the online features.
- Chapter 7, "Maintenance Problems or Questions," describes how to handle problems or questions.

Related Publications

The documentation library for ASG-SmartQuest consists of these publications (where *nn* represents the product version number):

- *ASG-Center Installation Guide* (CNX0300-*nn*) contains installation and maintenance information for ASG-Center, the common set of libraries shared by the ASG-ESW suite of products.
- *ASG-ESW Enhancement Summary* (ESW1000-*nn*) highlights the new functionality for this release.
- *ASG-SmartQuest Installation Guide* (SQM0300-*nn*) provides installation instructions for ASG-SmartQuest.
- *ASG-SmartQuest Quick Start Card* (SQM0900-*nn*) provides a quick reference for the basic ASG-SmartQuest functions.
- *ASG-SmartQuest User's Guide* (SQM0200-*nn*) provides instructions for using ASG-SmartQuest.

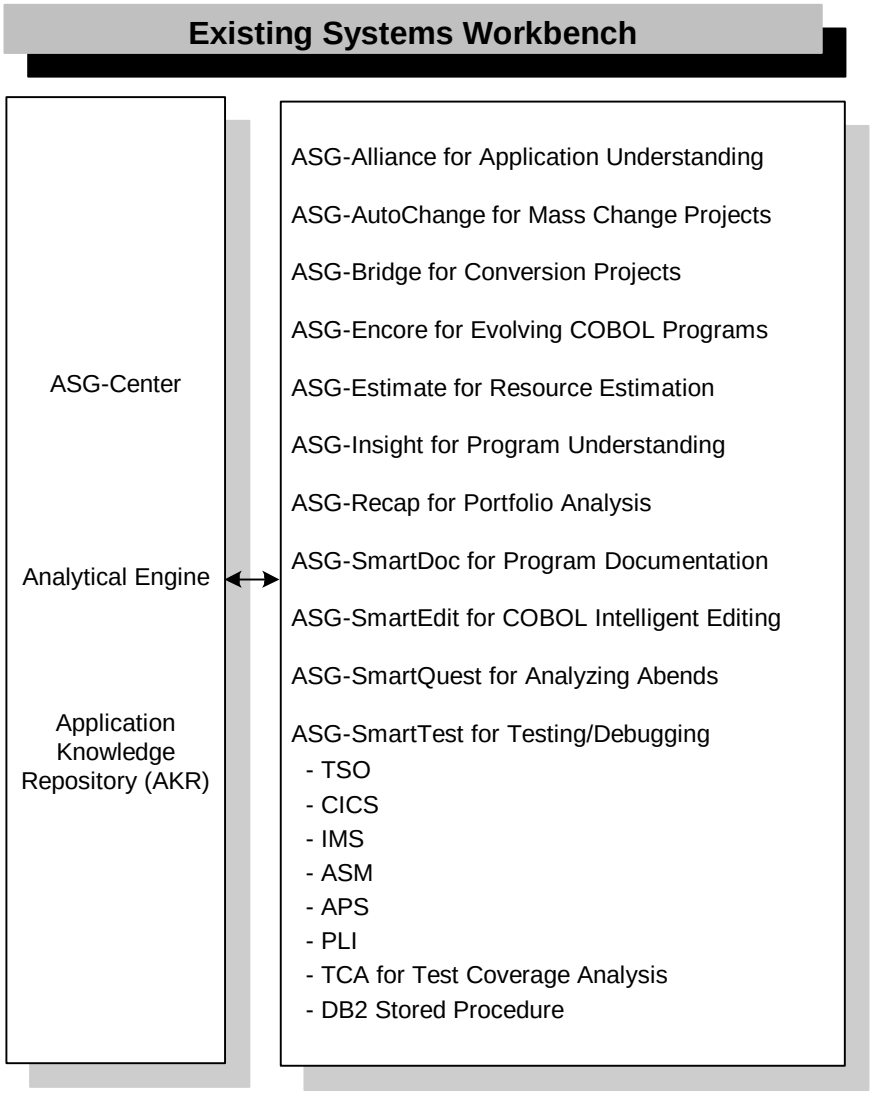
Note:

To obtain a specific version of a publication, contact ASG Customer Support.

ASG-Existing Systems Workbench (ASG-ESW)

ASG-ESW (herein called ESW) is an integrated suite of components designed to assist organizations in enhancing, redeveloping, or re-engineering their existing systems. ESW products use the Application Knowledge Repository (AKR) to store source program analysis information generated by the Analytical Engine. Figure 1 represents the components of ESW.

Figure 1 • ASG Existing Systems Workbench



This table contains the name and description of each ESW component:

ESW Product	Herein Called	Description
ASG-Alliance	Alliance	The application understanding component that is used by IT professionals to conduct an analysis of every application in their environment. Alliance supports the analysis and assessment of the impact of change requests upon an entire application. Alliance allows the programmer/ analyst to accurately perform application analysis tasks in a fraction of the time it would take to perform these tasks without an automated analysis tool. The impact analysis from Alliance provides application management with additional information for use in determining the resources required for application changes.
ASG-AutoChange	AutoChange	The COBOL code change tool that makes conversion teams more productive by enabling quick and safe changes to be made to large quantities of code. AutoChange is an interactive tool that guides the user through the process of making source code changes.
ASG-Bridge	Bridge	The bridging product that enables field expansion for program source code, without being required to simultaneously expand the fields in files or databases. Because programs are converted in smaller groups, or on a one-by-one basis, and do not require file conversion, testing during the conversion process is simpler and more thorough.
ASG-Center	Center	The common platform for all ESW products. Center provides the common Analytical Engine to analyze the source program and store this information in the AKR. This common platform provides a homogeneous environment for all ESW products to work synergistically.

ESW Product	Herein Called	Description
ASG-Encore	Encore	The program re-engineering component for COBOL programs. Encore includes analysis facilities and allows you to extract code based on the most frequently used re-engineering criteria. The code generation facilities allow you to use the results of the extract to generate a standalone program, a callable module, a complement module, and a CICS server. Prior to code generation, you can view and modify the extracted Logic Segment using the COBOL editor.
ASG-Estimate	Estimate	The resource estimation tool that enables the user to define the scope, determine the impact, and estimate the cost of code conversion for COBOL, Assembler, and PL/I programs. Estimate locates selected data items across an application and determines how they are used (moves, arithmetic operations, and compares). Time and cost factors are applied to these counts, generating cost and personnel resource estimates.
ASG-Insight	Insight	The program understanding component for COBOL programs. Insight allows programmers to expose program structure, identify data flow, find program anomalies, and trace logic paths. It also has automated procedures to assist in debugging program abends, changing a computation, and resolving incorrect program output values.
ASG-Recap	Recap	The portfolio analysis component that evaluates COBOL applications. Recap reports provide function point analysis and metrics information, program quality assessments, intra-application and inter-application comparisons and summaries, and historical reporting of function point and metrics information. The portfolio analysis information can also be viewed interactively or exported to a database, spreadsheet, or graphics package.
ASG-SmartDoc	SmartDoc	The program documentation component for COBOL programs. SmartDoc reports contain control and data flow information, an annotated source listing, structure charts, program summary reports, exception reports for program anomalies, and software metrics.

ESW Product	Herein Called	Description
ASG-SmartEdit	SmartEdit	The COBOL editing component that can be activated automatically when the ISPF/PDF Editor is invoked. SmartEdit provides comprehensive searching, inline copybook display, and syntax checking. SmartEdit allows you to include an additional preprocessor (for example, the APS generator) during syntax checking. SmartEdit supports all versions of IBM COBOL, CICS, SQL, and CA-IDMS.
ASG-SmartQuest	SmartQuest	The diagnostic tool for analyzing batch and CICS transaction abends. SmartQuest has been designed to make the maximum use of simple point-and-shoot techniques to enable fast and easy navigation through any data dump.
ASG-SmartTest	SmartTest	The testing/debugging component for COBOL, PL/I, Assembler, and APS programs in the TSO, MVS Batch, CICS (including file services), and IMS environments. SmartTest features include program analysis commands, execution control, intelligent breakpoints, test coverage, pseudo code with COBOL source update, batch connect, disassembled object code support, and full screen memory display.

Invoking ESW Products

The method you use to invoke an ESW product depends on your system setup. If you need assistance to activate a product, see your systems administrator. If your site starts a product directly, use the ISPF selection or CLIST as indicated by your systems administrator. If your site uses the ESW screen to start a product, initiate the ESW screen using the ISPF selection or CLIST as indicated by your systems administrator and then typing in the product command on the command line.

The product names can also vary depending on whether you access a product directly or through ESW. See "ESW Product Integration" on page xi for more information about using ESW.

To initialize ESW products from the main ESW screen, select the appropriate option on the action bar pull-downs or type the product shortcut on the command line.

Product Name (ESW Name)	Shortcut	ESW Pull-down Options
Alliance (Application Understanding)	AL	Understand ▸ Application
AutoChange (Conversion Set)	CC	Change ▸ Conversion Set
Bridge	BR	Change ▸ ASG-Bridge
Encore (Program Re-engineering)	EN	Re-engineer ▸ Program
Estimate	ES	Measure ▸ ASG-Estimate
Insight (Program Understanding)	IN	Understand ▸ Program
Recap (Portfolio Analysis)	RC	Measure ▸ Portfolio
SmartDoc (Program Documentation)	DC	Document ▸ Program
SmartEdit	SE	Change ▸ Program **Or** Change ▸ Program with Options
SmartQuest	SQV	Understand ▸ Abend/Dump
SmartTest (Testing/Debugging)	ST	Test ▸ Module/Transaction

ESW Product Integration

Because ESW is an integrated suite of products, you are able to access individual ESW products directly, or through the main ESW screen. As a result, different fields, values, action bar options, and pull-down options display on a screen or pop-up depending on how you accessed the screen or pop-up.

Certain ESW products also contain functionality that interfaces with other ESW products. Using SmartTest as an example, if Alliance is installed, SmartTest provides a dynamic link to Alliance that can be used to display program analysis information. If Insight is installed and specified during the analyze, the Insight program analysis functions are automatically available for viewing logic/data relationships and execution path. For example, the Scratchpad option is available on the Options pull-down if you have Insight installed.

Access to these integrated products requires only that they be installed and executed in the same libraries.

Example 1

Figure 2 shows the Encore Primary screen that displays when you access Encore directly.

The Encore Primary screen contains these eight action bar menu items: File, View, Extract, Generate, Search, List, Options, and Help.

Figure 2 • Encore Primary Screen

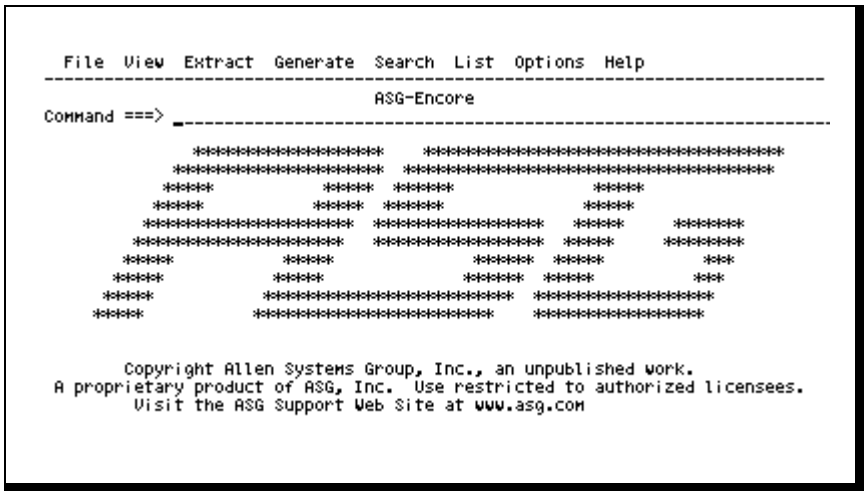
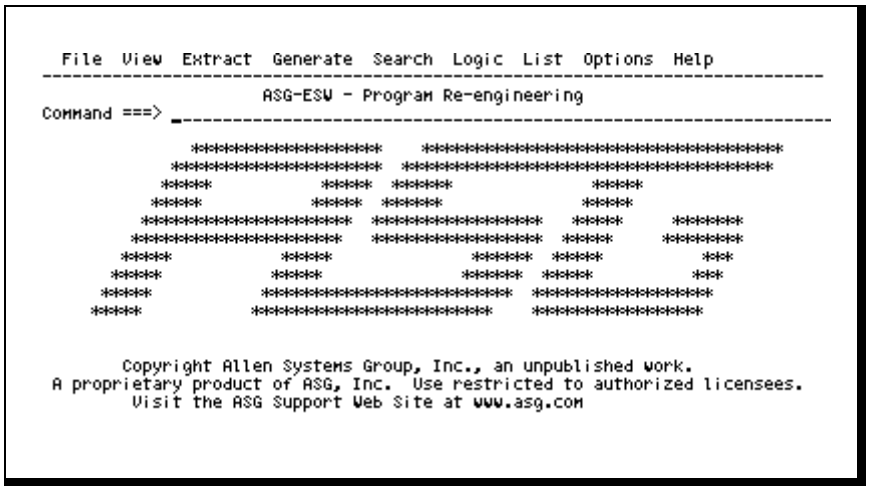


Figure 3 shows the Encore Primary screen that displays when you access Encore through ESW by selecting Re-engineer ▸ Program from the ESW action bar menu. Notice that the Primary screen name changes to ASG-ESW - Program Re-engineering when you enter Encore through ESW. Also, the Logic menu item displays if Insight is installed.

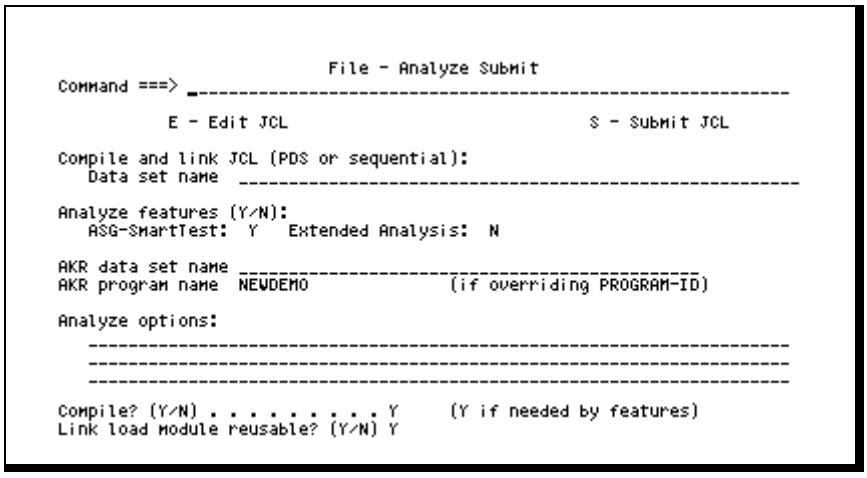
Figure 3 • ESW Encore Primary Screen



Example 2

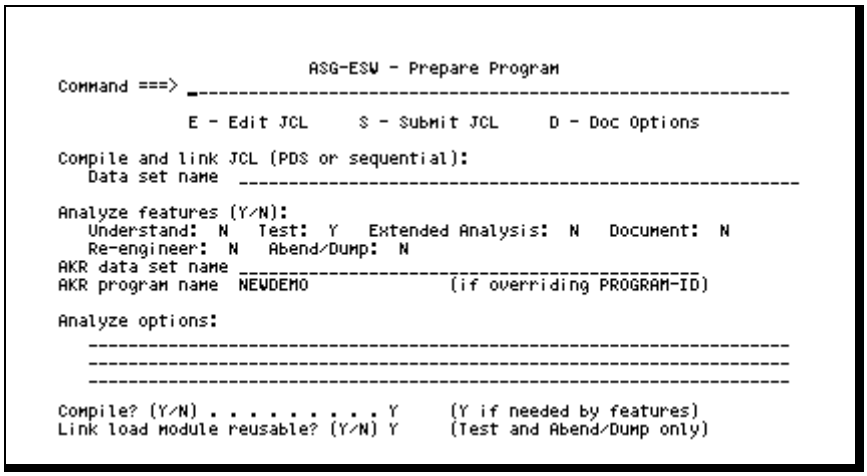
Figure 4 shows the File - Analyze Submit pop-up that displays when you access SmartTest directly. Figure 5 on page xiv shows the File - Analyze Submit pop-up that displays when you access SmartTest through ESW.

Figure 4 • File - Analyze Submit Screen



The actions shown on these screens can also vary. For example, the D - Doc Options action is only available on the File Prepare Program screen (or File - Analyze Submit screen) if SmartDoc is installed on your system. In Figure 4 on page xiii, the Doc Options action is not displayed.

Figure 5 • ASG-ESW - Prepare Program Screen (accessed through ESW)



Notice that the Analyze features field in Figure 5 lists additional ESW products than shown on Figure 4 on page xiii. This field is automatically customized to contain the ESW products you have installed on your system. These are the names of the analyze types:

Analyze Type	Analyze Type (ESW)
ASG-Encore	Re-engineer
ASG-Insight	Understand
ASG-SmartDoc	Document
ASG-SmartQuest	Abend/Dump
ASG-SmartTest	Test
Extended Analysis (ASG-SmartTest with Insight installed)	Extended Analysis

Publication Conventions

ASG uses these conventions in technical publications:

Convention	Represents
ALL CAPITALS	Directory, path, file, dataset, member, database, program, command, and parameter names.
Initial Capitals on Each Word	Window, field, field group, check box, button, panel (or screen), option names, and names of keys. A plus sign (+) is inserted for key combinations (e.g., Alt+Tab).
`lowercase italic monospace`	Information that you provide according to your particular situation. For example, you would replace *`filename`* with the actual name of the file.
`Monospace`	Characters you must type exactly as they are shown. Code, JCL, file listings, or command/statement syntax.
	Also used for denoting brief examples in a paragraph.
Vertical Separator Bar (|) with underline	Options available with the default value underlined (e.g., Y|N).
Underline	Denotes a cursor-selectable field or line.

ASG Customer Support

ASG provides support throughout the world to resolve questions or problems regarding installation, operation, or use of our products. We provide all levels of support during normal business hours and emergency support during non-business hours.

ASG Third-party Support. ASG provides software products that run in a number of third-party vendor environments. Support for all non-ASG products is the responsibility of the respective vendor. In the event a vendor discontinues support for a hardware and/or software product, ASG cannot be held responsible for problems arising from the use of that unsupported version.

Intelligent Support Portal (ISP)

Online product support is available at: http://www.asg.com/support/support.asp via the ASG Intelligent Support Portal (ISP). Your logon information for ISP online support is:

Customer ID = *NNNNNNNNN*
Password = *XXXXXXXXXX*

where:

NNNNNNNNN is your customer ID supplied by ASG Product Distribution.
XXXXXXXXXX is your unique password supplied by ASG Product Distribution.

The *ASG-Intelligent Support Portal User's Guide* provides instructions on how to use the ISP and is located on the ASG Support web page.

Telephone Support

To expedite response time, please have this information ready:

- Product name, version number, and release number
- List of any fixes currently applied
- Any alphanumeric error codes or messages written precisely as displayed
- A description of the specific steps that immediately preceded the problem
- Verify whether you received an ASG Service Pack or cumulative service tape for this product. It may include information to help you resolve questions regarding installation of this ASG product. The Service Pack instructions are in a text file on the distribution media included with the Service Pack. You can access the latest software corrections and Service Packs via the ISP.
- The severity code (ASG Customer Support uses an escalated severity system to prioritize service to our clients. The severity codes and their meanings are listed below.)

Severity Codes and Expected Support Response Times

Severity	Meaning	Expected Support Response Time
1	Production down, critical situation	Within 30 minutes
2	Major component of product disabled	Within 2 hours
3	Problem with the product, but customer has work-around solution	Within 4 hours
4	"How-to" questions and enhancement requests	Within 4 hours

The Americas

	Phone	Fax	E-mail
United States and Canada	800.354.3578	1.703.464.4901	support@asg.com

Europe, Middle East, and Africa (EMEA)

During normal business hours, we recommend that you call the Central Support number first (except in South Africa).

	Phone	Fax	E-mail
Central Support	00.800.3544.3578	44.1727.812018	support.emea@asg.com
English	44.1727.736305	44.1727.812018	support.uk@asg.com
French	33.141.028590	33.141.028589	support.fr@asg.com
German	49.89.45716.200	49.89.45716.400	support.de@asg.com
Italian	39.0290450025		support.it@asg.com
Dutch	31.30.241.6133		support.nl@asg.com
Spanish	34.913.523.800	34.917.156.961	support.es@asg.com
South Africa	800.201.423		support.sa@asg.com

Asia Pacific (APAC)

	Phone	Fax	E-mail
Central Support	61.3.9645.8500	61.3.9645.8077	support.au@asg.com
Australia	800.637.947	61.3.9645.8077	support.au@asg.com
Hong Kong	800.96.2800		support.hk@asg.com
Japan	81.3.5326.3684	81.3.5326.3001	support.au@asg.com
Singapore	65.224.3080	65.224.8516	support.sg@asg.com

All Other Countries (Also for any non-working numbers)

	Phone	Fax	E-mail
All other countries	1.239.435.2201		support@asg.com

If you receive a voice mail message, follow the instructions to report a production-down or critical problem. Leave a detailed message including your name and phone number. An ASG Customer Support representative will be paged and will return your call as soon as possible. Please have available the information described previously when the ASG Customer Support representative contacts you.

ASG Documentation/Product Enhancements

Submit all product and documentation suggestions to ASG's product management team at http://www.asg.com/asp/emailproductsuggestions.asp.

If you do not have access to the web, FAX your suggestions to product management at (239) 263-3692. Please include your name, company, work phone, e-mail ID, and the name of the ASG product you are using. For documentation suggestions include the publication number located on the publication's front cover.

1 Introducing SmartQuest

This chapter introduces SmartQuest and contains these sections:

SmartQuest Overview

SmartQuest is a tool for analyzing batch and CICS transaction abends, which provides source-level support for your COBOL, PL/I, and Assembler programs. This means that you can view the source code for your abending programs online with the failing statement clearly highlighted. In addition, the individual contents of your program variables are displayed for quick and easy examination. Most MVS and CICS control blocks are shown mapped with their field names automatically and, if you use the source support feature, SmartQuest also automatically maps areas such as your COBOL working storage and your PL/I DSA.

Source support can be obtained from ASG-SmartTest analyzed programs that reside in an ASG-ESW Application Knowledge Repository (AKR), or from ASG-SmartQuest's own support features.

For DL/1 and DB2 abends, a screen showing details of the last call is provided. These screens enable you to quickly examine any of the DL/1 or DB2 control blocks or any of the call parameters.

The dump index file allows you to view dumps captured in any of your CICS regions from a single CICS region or from a TSO/ISPF session.

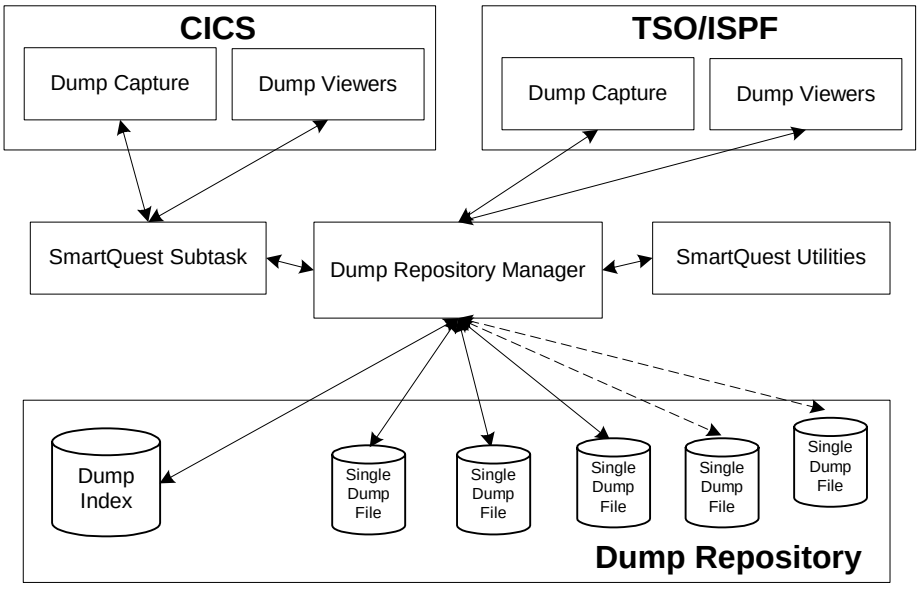
Capturing Dumps

SmartQuest must be initialized before it can capture dumps. For MVS, use a started task or batch job. For CICS, you can do this automatically by adding an entry to your CICS start-up PLT, or manually by using the CICS transaction (IQST) supplied with the product. The initialization starts the SmartQuest abend trapping mechanism.

Dump Capture Overview

SmartQuest can process multiple dumps and uses the dump repository to store and manage each dump in a unique dataset. The dump index file contains control records for each dump file. Figure 6 is an overview of how SmartQuest manages dumps.

Figure 6 • SmartQuest Overview



SmartQuest Component	Description
Dump Repository	Consists of one Dump File Index and one or more dump files. You can allocate one or more repositories.
Dump Repository Manager	Performs all required dump storage, retrieval, maintenance, and administrative functions. The Dump Repository Manager runs as an MVS subtask in CICS systems.
Dump Index	Contains control records that provide these functions: • Dataset naming standards • Last used dump sequence number • Authorized volumes for dynamic VSAM file allocation From the ASG-SmartQuest - Configuration and Customization Menu, you can allocate the dump index file using Option 5 or modify the dump index file using Option B. See "Configuration Option 5 - Allocating the Dump Index File" on page 29 and "Customization Option B - Managing Dump Index Definitions" on page 31 for more information about these functions.
Dump File	Contains an individual, uniquely identified dump. The dump file is dynamically allocated and catalogued by the Dump Repository Manager as a dump is recorded. The dataset name is assigned based on the user-supplied naming standards in the dump index file.

Processing Abends in an MVS Environment

Using an SVC 51 Intercept

When batch jobs that have a SYSABEND, SYSUDUMP, or SYSMDUMP DD card in their JCL deck abend, MVS issues an SVC 51 instruction unless you are using PL/I with the STAE or SPIE run-time options or if you are using LE run-time libraries with TRAP(ON). SVC 51 is the SNAP SVC and causes a snapshot dump to be taken.

SmartQuest works by intercepting the SVC 51 calls (using approved, documented IBM services) and, optionally, writing all relevant information to a VSAM KSDS dataset, a print SYSOUT, or both.

When SmartQuest has completed its own dump capture, control is passed to the true SVC 51 routine so that an IBM dump can also be captured. You can suppress the IBM dump using an SmartQuest customization option.

Note:

Your job must contain a SYSABEND, SYSUDUMP, or SYSMDUMP DD card. The SVC 51 routine is not driven if none of these DD cards are specified.

Using PL/I STAE and SPIE Run-time Options

If you use the PL/I STAE or SPIE run-time options, the SVC 51 snapshot dump is not produced even if you include a SYSABEND, SYSUDUMP, or SYSMDUMP DD card. This is because PL/I has its own error handling routines that are given control when the error occurs. Often these simply inform the programmer that an error has occurred at a particular offset in a certain PL/I procedure, and also provides a brief description of the nature of the error.

SmartQuest for MVS provides a full dump in such situations, including PL/I source-level support. This is achieved by relinking the PL/I module that contains the PL/I error handling routines. The relink of this module replaces the PL/I error handling routines with an SmartQuest PL/I error handling routine. This allows SmartQuest to capture all of the relevant dump information and write this to the VSAM KSDS dump file before passing control on to the original PL/I error handling routine.

Using Language Environment (LE) Run-time Libraries

Like PL/I STAE/SPIE, LE has its own error handling routines. If you have the option TRAP(ON), which IBM recommends, then the LE error handling routines obtain control when an error occurs and a Language Environment dump is produced (usually to the CEEDUMP SYSOUT dataset). While the information in this SYSOUT file may be sufficient to resolve simple abends, many have found it to be inadequate when investigating more serious errors and would prefer to have the SVC 51 type dump.

For Language Environment, SmartQuest gives you more than the CEEDUMP dump. You get the whole dump, as though from an SVC 51, but with the powerful source support and easy point-and-shoot analysis interface.

The dump capture is accomplished by defining a Language Environment abend termination exit program. This is also an IBM approved and documented technique. The exit program that performs the dump capture is provided with SmartQuest and the simple steps to enable this exit are described in "Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)" on page 96. After dump capture is complete, control is passed to the true Language Environment error handler which produces the normal CEEDUMP.

How Abends are Processed in a CICS/ESA Environment

A CICS transaction dump can be requested due to a program abend, or by issuing an EXEC CICS DUMP command. When SmartQuest is activated, it intercepts these transaction dump requests and captures the entire transaction environment to a VSAM KSDS dump dataset. It does this by suspending the dumping transaction and attaching an MVS subtask to perform the actual capture. When capture is completed, the suspended task resumes and continues with its normal processing, which may be to terminate.

Examining Dumps Captured by SmartQuest

You can analyze any abend through a TSO/ISPF dump viewer session that can be installed as a selection on the ISPF screen or invoked through a REXX EXEC. Alternatively, you can use the CICS dump display interface (transaction IQDS) if this has been installed. The TSO/ISPF interface and the CICS interface are identical, with the exception that ASG-SmartTest AKR source support is available only in the TSO viewer.

See the *ASG-SmartQuest User's Guide* for detailed information about using the dump display feature.

SmartQuest Abend Notification

When a transaction abends and terminates, and after the dump is captured, SmartQuest displays a notification screen at the terminal where the abend occurred. This screen is customizable and contains information asking the user to report the abend to a person, a programming team, or to a general help desk. You can vary the contact name on this screen according to the transaction ID or generic transaction ID of the abending task. You can also suppress the displaying of this screen. You can customize SmartQuest for CICS to issue a TSO notification to a specified TSO user and vary the user ID by transaction ID or generic transaction ID.

If a batch job abends, SmartQuest issues a TSO notify to a specified TSO user or to several TSO users. You can define user IDs for a specific job or for a generic group of jobs. Messages are also written to the MVS Console and JES job log, These messages mark the progress of each abend as it is processed by SmartQuest.

SmartQuest Overhead

In terms of processor usage, SmartQuest creates no overhead on your system until a dump occurs. When a dump does occur, additional processing and I/O take place. The time that this requires varies depending on the size of the programs, storage areas being used by the abending task, and whether dumps are occurring concurrently. In all cases, the additional elapsed time is not excessive. The design of the product is such that only the abending task is suspended while capture takes place. Other tasks are scheduled and run as normal.

If you use the source-level support feature, overhead also increases when you compile your programs. Again this varies greatly depending upon the size of the program you are compiling and the number of declared variables that it contains.

SmartQuest Resources

Precise requirements are difficult to specify because the programs loaded, storage areas acquired, and amount of temporary storage in use are highly variable depending on the feature currently in use.

Where possible, SmartQuest makes use of above-the-line storage. Almost all of the SmartQuest programs and storage reside above the line. These are the methods for examining program size:

- Use the CEMT transaction for CICS
- Browse the products LOADLIB and LINKLIB using the TSO browse facility for MVS

The dump viewer is pseudo conversational, so any storage that it obtains is freed upon termination of the task.

SmartQuest Robustness

Because the product is designed to run in production environments, its robustness has been a major feature of its design.

During dump capture, if errors occur (possibly due to corruption of control blocks that the capture mechanism uses), SmartQuest recovers and continues the dump capture process. If control blocks are so badly damaged that dump capture is impossible, then the capture process terminates and the suspended abending task resumes to allow it to produce a normal dump.

Both the CICS and TSO/ISPF versions of the display feature can recover from any internal error in the unlikely event of an abend. This prevents termination of your dump analysis session and preserves such things as user-defined labels for marking areas of the dump.

2 Installing SmartQuest

This chapter describes how to install SmartQuest and contains these sections:

Prerequisite

Center installation and customization must be performed before customizing SmartQuest. If Center has not been installed, see the *ASG-Center Installation Guide*.

Required PTFs

After you install the SmartQuest tape, install any PTFs before starting the product. The PTFs are located on the ASG Customer Support Intelligent Support Portal page of the ASG web site and can be downloaded.

Note:

Apply PTFs and Service Packs after you install the product tape and before you begin any product customization.

Accessing the ASG Customer Support Intelligent Support Portal

The ASG Customer Support Intelligent Support Portal contains the support link to access product fixes, patches, module replacements, and documents.

1. From an Internet browser, go to http://www.asg.com/support/support.asp, and select the Intelligent Support Portal.
2. Type your customer ID and your company's password as obtained from ASG support. See "Intelligent Support Portal (ISP)" on page xvi for more information.
3. Enter your name, e-mail address, and telephone number and click OK.
4. Select Downloads and click OK.
5. Select Software Fixes and PTFs and click OK.
6. Select ASG-SmartQuest MVS (or ASG-SmartQuest CICS) and click OK.
7. Click ASG-SmartQuest_70 Fixes.
8. Select the PTF you want to download.

ASG Service Pack

Service Packs (which contain multiple PTFs) are also available through the ASG Customer Support Intelligent Support Portal. If there is a Service Pack for this release, follow the instructions for installing the PTFs. If you have any problems with the Service Pack, contact ASG Customer Support.

Materials Supplied

SmartQuest is delivered with these materials:

- The product on 1 x 3480 or 3490 cartridge, as preferred.
- Any applicable Service Pack tapes. See "Maintenance Problems or Questions" on page 123 for more information about installing Service Pack tapes.
- One copy of the SmartQuest documentation on CD-ROM.
- A product authorization key. If you do not have a product authorization key, you cannot complete the installation of the product and should contact ASG Customer Support.

System Requirements

SmartQuest has these requirements:

- Languages
  - COBOL II
  - COBOL 370
  - COBOL for MVS and VM
  - COBOL for OS/390 and VM
  - CASE-generated COBOL
  - Assembler
  - High-level Assembler through a.3.0
  - OS PL/I Version 2.3
  - PL/I for MVS & VM
- Environments
  - TSO
  - BTS
  - DLI
  - CICS Version 4.1
  - CICS Transaction Server 1.1, 1.2, 1.3, 2.1, and 2.2
  - CICS command-level programs
  - IMS/DC
  - ISPF 4.1
- Databases
  - VSAM
  - IMS/DB (DL/1)
  - DB2
  - IDMS/DB
  - SYSTEM 2000
  - DATACOM/DB
  - TOTAL/TIS

Installing SmartQuest

The SmartQuest product installation tape contains files for the CICS and MVS versions of SmartQuest. If you purchased both products, complete all the installation steps. If you purchased only one of the products, perform only those steps that are appropriate.

Note:

Separate product authorization keys are required when installing the SmartQuest for CICS and MVS products. These passwords are not interchangeable and you should have two product authorization keys if you are installing both products.

These are the installation files:

Product	JCL	Description
MVS and CICS	VIASAUTH	Installs the product authorization key(s) into the load module ASGPTBL. "Step 1 - Assembling or Linking and Copying Authorization Module (MVS & CICS)" on page 13 for more information.
CICS	VISQJSU1	Copies authorized modules for SmartQuest to an authorized CICS library. See "Step 1 - Authorized Module Copy Job for CICS STEPLIB (CICS Only)" on page 66 for more information.
MVS	VISQJSU2	Copies the authorized modules for SmartQuest to an authorized LINKLIST library. See "Step 5 - Authorized Module Copy Job for MVS LINKLIST (MVS Only)" on page 71 for more information.
MVS	VISQJSU3	Relinks IBMBLIIA to allow for abend intercept. This is the SmartQuest PL/I version 2.3 Abend Exit re-link JCL. See "Step 6 - Relinking IBMBLIIA and IBMBKMRA (MVS PL/I Users Only)" on page 72 for more information.
MVS	VISQJSU4	Assembles and relinks CEEEXTAN, if needed. This is the LE Abend Exit relink JCL. See "Step 7 - Enabling the LE Abend Termination Exit (MVS Only)" on page 75 for more information.
MVS	VISQJSU5	Provides the Started Task procedure to activate the batch abend trapping mechanisms. See "Step 13 - Starting the Abend Trapping Mechanisms (MVS & CICS)" on page 96 for more information.

SmartQuest Installation Procedure

You can install and customize SmartQuest in approximately 1 to 1 1/2 hours. Reinstallation takes about 30 minutes.

To successfully install SmartQuest, use this checklist to complete the installation steps in the correct sequence.

MVS/CICS	Step Description
_____	"Step 1 - Assembling or Linking and Copying Authorization Module (MVS & CICS)" on page 13
_____	"Step 2 - Setting Up the TSO Maintenance Interfaces" on page 16
_____	Complete the configuration and customization steps in Chapter 3, "Configuring and Customizing SmartQuest," on page 19
_____	Complete any optional jobs and the start tasks in Chapter 4, "Enabling SmartQuest," on page 65

Step 1 - Assembling or Linking and Copying Authorization Module (MVS & CICS)

This member installs the product authorization key(s) into the load module ASGPTBL. Product authorization keys are included in your installation package, or are provided through email, fax, or the ASG web site. This JCL must reflect the product key(s) for all installed ASG products.

Note:

Additional installation instructions provided on the Product Authorization form supersede these instructions.

To edit the VIASAUTH member in the product JCL library to conform to your site standards

1. Change or replace the job card.
2. Verify that the correct programs are referenced in the ASMBLR and LINK parameters. If required, change them to match your installation standards.
3. Verify that the UNIT= parameters contain the correct values. If required, change them to match your installation standards.
4. Change the ASG value on the VIASOFT parameter to the high-level qualifier used for the installation of your SmartQuest product.

5 Change the VIACENXX value on the CENTER parameter to the middle-level qualifier(s) used for the installation of your SmartQuest product. For example, VIASQ70.

6 Change the .CNTL on the SYSLIB DD dataset name to .JCL, for example:

```
DD DISP=SHR,DSN=&VIASOFT..&CENTER..JCL
```

7 Type your product key from ASG in the line beginning with *XXX*. Place the product authorization codes (for all ASG products and all CPUs) between the ASGPRODS and ASGPRODE within VIASAUTH. For example:

```
        ASGPRODS
SQC     ASGPROD 9999999999,2001175,**2003-207,027319,1,D840,91D0,C511,  X
              PRODVR1='9999                                            '
SQM     ASGPROD 9999999999,2001175,**2003-207,027319,1,D911,23FC,7609,  X
              PRODVR1='9999                                            '
SQC     ASGPROD 9999999999,2001175,**2003-208,027320,1,D840,91D0,C511,  X
              PRODVR1='9999                                            '
SQM     ASGPROD 9999999999,2001175,**2003-208,027320,1,D911,23FC,7609,  X
              PRODVR1='9999                                            '
        ASGPRODE
```

Note:

If you have multiple CPUs or multiple ASG products, make sure the JCL contains all the product authorization codes before you assemble and link the password module in ASGPTBL. Each time you run VIASAUTH, a new ASGPTBL module is created.

8 Replace LOADLIB with the name of the LOADLIB in which your ASG products are run. If you are running multiple ASG products, you may want to put this module in a LINKLIST library.

9 Submit the edited VIASAUTH JCL. You should receive a condition code of zero.

```
//ASG  JOB (ASG),'ASSEMBLE ASGPTBL'
//*   INSERT '/*ROUTE PRINT NODE.USER' HERE IF NEEDED.
//*                                                                    *
//* ******************************************************************
//* *                                                                  *
//* * THIS ASSEMBLY INSTALLS YOUR ALLEN SYSTEMS GROUP, INC. PRODUCT  *
//* * AUTHORIZATION KEY(S) INTO THE LOAD-MODULE ASGPTBL. THE DATASET *
//* * SPECIFIED IN SYSLMOD MUST BE INCLUDED IN THE STEPLIB OF THE    *
//* * PRODUCT(S) AUTHORIZED BY THE ASGPROD STATEMENT(S).             *
//* *                                                                *
//* * NOTE: IF YOU HAVE MULTIPLE ASG PRODUCTS, CONSIDER PLACING THE  *
//* *       MODULE ASGPTBL WITHIN A LINK-LIST LIBRARY AND ASSEMBLING *
//* *       THIS MODULE WITH MULTIPLE ASGPROD STATEMENTS, 1 FOR EACH *
//* *       PRODUCT.                                                 *
//* *                                                                *
//* ******************************************************************
//*                                                                    *
//AUTHTBL  PROC ASMBLR=ASMA90,
//             LINK=IEWL,
```

```
//             SYSOUT=*,
//             SYSDA=SYSDA,
//             VIASOFT='ASG',
//             CENTER='VIACENXX'
//ASSEM    EXEC PGM=&ASMBLR,
//         PARM='OBJECT,XREF(SHORT)'
//SYSTERM  DD SYSOUT=&SYSOUT
//SYSPRINT DD SYSOUT=&SYSOUT
//SYSLIB   DD DSN=SYS1.MACLIB,DISP=SHR
//         DD DISP=SHR,DSN=&VIASOFT..&CENTER..CNTL
//SYSPUNCH DD DUMMY
//SYSUT1   DD DSN=&&WRKA,UNIT=&SYSDA,SPACE=(CYL,(5,1))
//SYSUT2   DD DSN=&&WRKB,UNIT=&SYSDA,SPACE=(CYL,(5,1))
//SYSUT3   DD DSN=&&WRKC,UNIT=&SYSDA,SPACE=(CYL,(5,1))
//SYSLIN   DD DISP=(,PASS),UNIT=&SYSDA,SPACE=(CYL,(2,2)),
//            DCB=(BLKSIZE=400),DSN=&&LOADSET
//*
//LINK     EXEC PGM=&LINK,
// PARM='LET,LIST,MAP,XREF,SIZE(524288,65536),NCAL,RENT,REUS'
//SYSPRINT DD SYSOUT=&SYSOUT
//SYSUT1   DD DSN=&&WRKAWORK,UNIT=&SYSDA,SPACE=(CYL,(5,1))
//SYSLMOD  DD DISP=SHR,DSN=&VIASOFT..&CENTER..LOADLIB
//SYSLIN   DD DUMMY
//         PEND
//*
//ASM      EXEC AUTHTBL
//*
//ASSEM.SYSIN DD *
         ASGPRODS
XXX      ASGPROD XXXXXXXXX,XXXXXXX,XXXXXXXXXX,XXXXXX,X,XXXX,XXXX,XXXX
           ...... ADDITIONAL LINES OR AUTHORIZATION CODES ......
         ASGPRODE
//LINK.SYSLIN DD DISP=(OLD,DELETE),DSN=&&LOADSET
//         DD *
 NAME ASGPTBL(R)
//*
```

10 Copy the ASGPTBL module to the correct target library.

Product	Instruction
ASG-SmartQuest-CICS	Copy the ASGPTBL module to the authorized library to be included in the CICS STEPLIB concatenation. See also "Step 1 - Authorized Module Copy Job for CICS STEPLIB (CICS Only)" on page 66.
ASG-SmartQuest-MVS	Copy the ASGPTBL module to the SmartQuest LINKLIB. See also "Step 5 - Authorized Module Copy Job for MVS LINKLIST (MVS Only)" on page 71.
Other ESW products	Copy the ASGPTBL module to a LINKLST library.
Other ASG products	See the installation instructions applicable to that product.

Caution! If there are multiple ASG products installed at your site, care should be taken to ensure that the ASGPTBL created in this step does not replace an existing version. ASG strongly recommends that a single version of this module be maintained, containing all keys for all versions of the ASG products at your site.

Note:

If your site supports DB2 and you want SQLCA formatting, add the DSNTIAR and DSNTIA1 modules in the LNKLST.

Step 2 - Setting Up the TSO Maintenance Interfaces

All customization of SmartQuest is carried out online using TSO/ISPF dialogs. The customization variables are stored on the SmartQuest Profile file. Changes to the Profile file affect all abending transactions immediately.

Note:

Notify your support personnel about how to access the ASG-SmartQuest Maintenance facility.

To set the default values for the Maintenance facility, follow this step:

- From the TSO commands panel, type this command (substituting the high-level and mid-level qualifiers for your system) to invoke the Maintenance facility:

```
EX 'ASG.VIACENxx.CLIST(SQMAINT)'
```

Note:

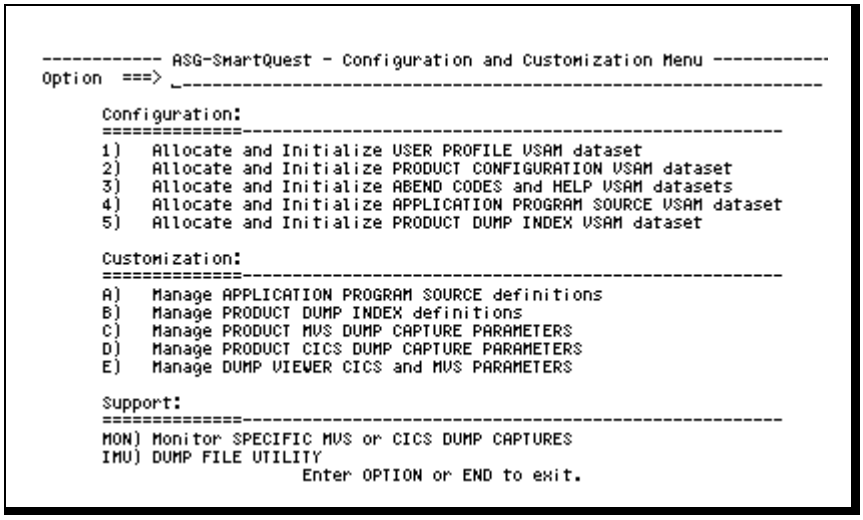
If you set CONFIG=NO in the VIASGBL CLIST, use this command to access the SmartQuest Maintenance facility.

Accessing SmartQuest from the ESW Primary Panel

To access SmartQuest from the ESW primary panel

1 Select File ▸ Config Abend/Dump Facility or type SQM on the command line and press Enter. The ASG-SmartQuest - Configuration and Customization Menu shown in Figure 7 displays.

Figure 7 • ASG-SmartQuest - Configuration and Customization Menu



2 Select each configuration option to allocate the product files, then select the appropriate customization options to customize SmartQuest for your environment. See "Configuring and Customizing SmartQuest" on page 19 for a description of each SmartQuest configuration and customization option.

3 Configuring and Customizing SmartQuest

This chapter describes how to build and populate the VSAM files (i.e., profile, help, abend codes, source, etc.), how to set the values for capturing dumps, and contains these sections:

Using the Configuration and Customization Menu

The ASG-SmartQuest - Configuration and Customization Menu is the main screen for configuring product installation and adding additional resources, such as dump index files or source files.

Options 1 through 5 enable you to create or alter resources for SmartQuest to use. Most resources can be multiple in nature or may need to be expanded. You can create additional source files and dump index files, or you can expand existing files using these options. The product configuration, help, and abend codes files tend to be static and do not require an alter capability.

Note:

See "Step 2 - Setting Up the TSO Maintenance Interfaces" on page 16 for information about invoking the SmartQuest Maintenance facility.

The user profile stores information and settings that the end user specifies when using the SmartQuest Viewer. This profile is only altered when more space is needed to accommodate a large influx of additional end users or end user IDs.

Options A through E, MON, and IMU enable you to customize SmartQuest.

Accessing the Configuration and Customization Menu

Note:

Typically the ASG-SmartQuest - Configuration and Customization Menu is used by the system programmer/administrator. The CONFIG parameter in the VIASGBL CLIST member enables you to specify whether to display the Maintenance facility option on the File pull-down on the ESW primary screen. By default, this parameter is set to YES and the option displays. See the *ASG-Center Installation Guide* for more information about the CONFIG parameter.

To access the ASG-SmartQuest - Configuration and Customization Menu

1 Select File ▸ Config Abend/Dump Facility or type SQM. The ASG-SmartQuest - Configuration and Customization Menu shown in Figure 8 displays.

Figure 8 • ASG-SmartQuest - Configuration and Customization Menu

```
------------ ASG-SmartQuest - Configuration and Customization Menu ------------
Option  ===> _____________________________________________________________

      Configuration:
      ==============================================================================
      1)   Allocate and Initialize USER PROFILE VSAM dataset
      2)   Allocate and Initialize PRODUCT CONFIGURATION VSAM dataset
      3)   Allocate and Initialize ABEND CODES and HELP VSAM datasets
      4)   Allocate and Initialize APPLICATION PROGRAM SOURCE VSAM dataset
      5)   Allocate and Initialize PRODUCT DUMP INDEX VSAM dataset

      Customization:
      ==============================================================================
      A)   Manage APPLICATION PROGRAM SOURCE definitions
      B)   Manage PRODUCT DUMP INDEX definitions
      C)   Manage PRODUCT MVS DUMP CAPTURE PARAMETERS
      D)   Manage PRODUCT CICS DUMP CAPTURE PARAMETERS
      E)   Manage DUMP VIEWER CICS and MVS PARAMETERS

      Support:
      ==============================================================================
      MON) Monitor SPECIFIC MVS or CICS DUMP CAPTURES
      IMU) DUMP FILE UTILITY
                          Enter OPTION or END to exit.
```

2 Select each configuration option to allocate the product files, then select the appropriate customization options to customize SmartQuest for your environment. The sections in this chapter describe each configuration and customization option.

Defining Current Library Settings

If you type incorrect dataset names for Configuration, Loadlib, or Data, the ASG-SmartQuest - Customization - Current Library Settings pop-up, shown in Figure 9, displays when you attempt to access other customization screens.

Figure 9 • ASG-SmartQuest - Customization - Current Library Settings Pop-up

```
--------- ASG-SmartQuest - Customization - Current Library Settings --------

Product STEPLIB => VIAUSER.TEST.LOADLIB                    > NOTFOUND
Product DATA ====> VIAUSER.TEST.CNTL                       > FOUND
Configuration ===> VIAUSER.TEST.SQCONFIG                   > FOUND

        Correct DSN's and press ENTER to continue, or  END to cancel.
```

To correct these dataset names, follow this step:

- Type the correct dataset name for the fields marked NOT FOUND and press Enter to save and exit.

Configuration Option 1 - Allocating the Profile File

The Profile file contains the user profile information (i.e., PF keys, last dump index and source file). The ASG-SmartQuest - Configuration - User Profile screen enables you to specify the dataset name of the SmartQuest Profile file to be used during the session.

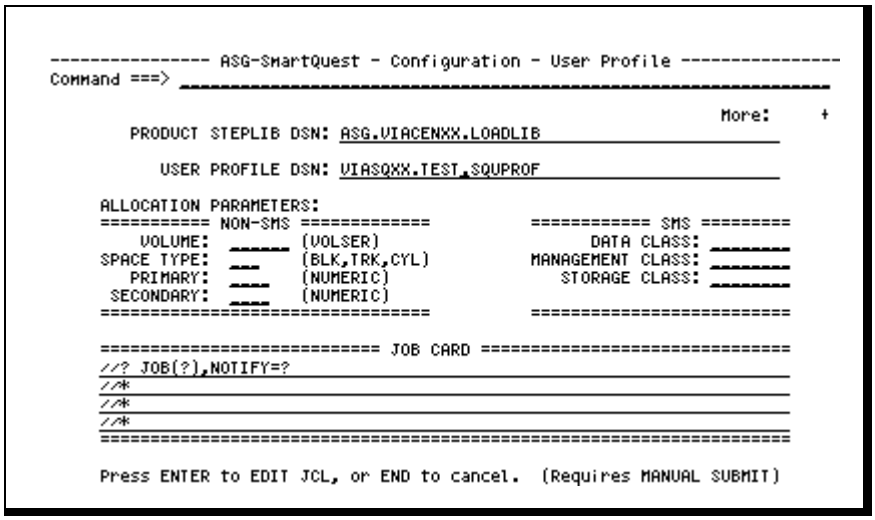
To allocate the Profile file

1 Select option 1 from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Configuration - User Profile screen, shown in Figure 10, displays.

Note:

Users should be assigned update authority for this screen.

Figure 10 • ASG-SmartQuest - Configuration - User Profile Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for the Profile file.

4 Type the SMS classes, or the Volume and space information for non-SMS.

5 Complete the job card information.

6 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

Configuration Option 2 - Allocating the Configuration File

The Configuration file contains the system configuration parameters (i.e., MVS parms, CICS parms, dump index information). Users can be assigned a RACF read-only security status to limit changes to the configuration dataset.

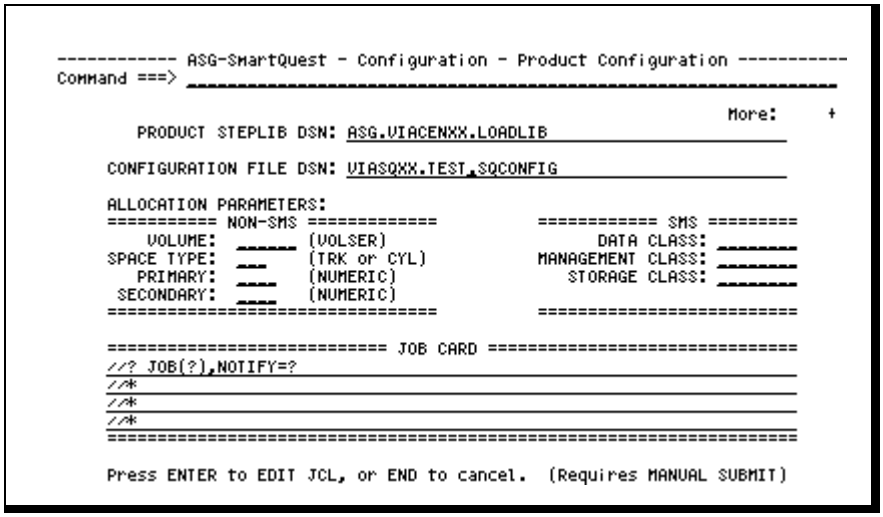
To allocate the Configuration file

1 Select option 2 from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Configuration - Product Configuration screen, shown in Figure 11, displays.

Note:

Users should be assigned read-only access for this screen.

Figure 11 • ASG-SmartQuest - Configuration - Product Configuration Screen



2 Verify that the Product Steplib high-level qualifier matches your system.

3 Type the dataset name for the Configuration file.

4 Type the SMS classes, or the Volume and space information for non-SMS.

5 Complete the job card information.

6 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

Configuration Option 3 - Allocating the Help and Abend Codes Files

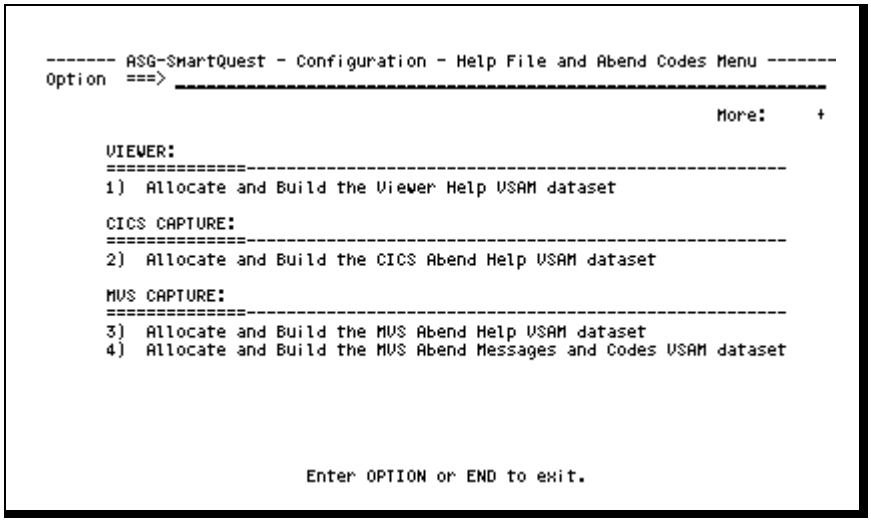
Selecting option 3 displays the ASG-SmartQuest - Configuration - Help File and Abend Codes Menu screen, shown in Figure 12. This option enables you to allocate the dataset for the Viewer help file, the MVS and CICS abend code help files, and the MVS abend messages and codes file.

You must allocate all 4 of these datasets.

Note:

Users should be assigned read-only access for these screens.

Figure 12 • ASG-SmartQuest - Configuration - Help File and Abend Codes Menu

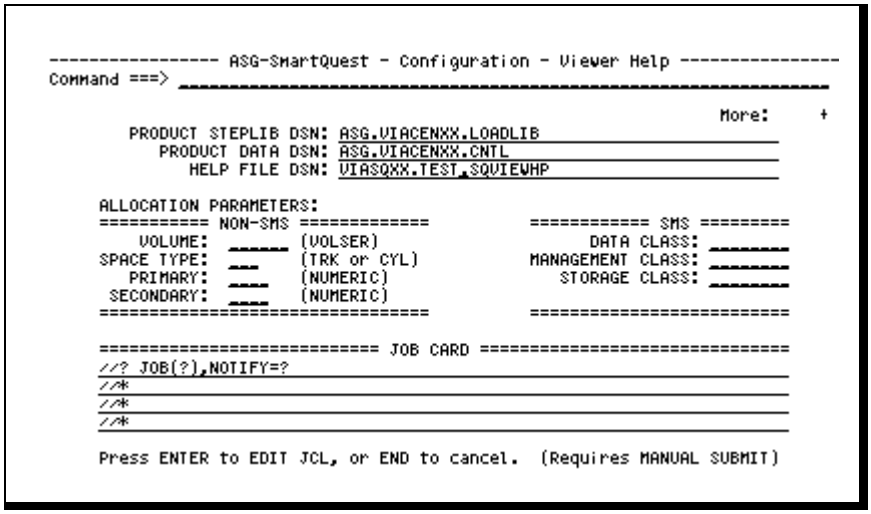


To allocate the Viewer help file

The help file dataset you allocate will contain the help files for the SmartQuest dump viewer screens.

1 Select option 1 from the ASG-SmartQuest - Configuration - Help File and Abend Codes Menu. The ASG-SmartQuest - Configuration - Viewer Help screen, shown in Figure 13, displays.

Figure 13 • ASG-SmartQuest - Configuration - Viewer Help Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for the product data file and the help file.

4 Type the SMS classes, or the Volume and space information for non-SMS.

5 Complete the job card information.

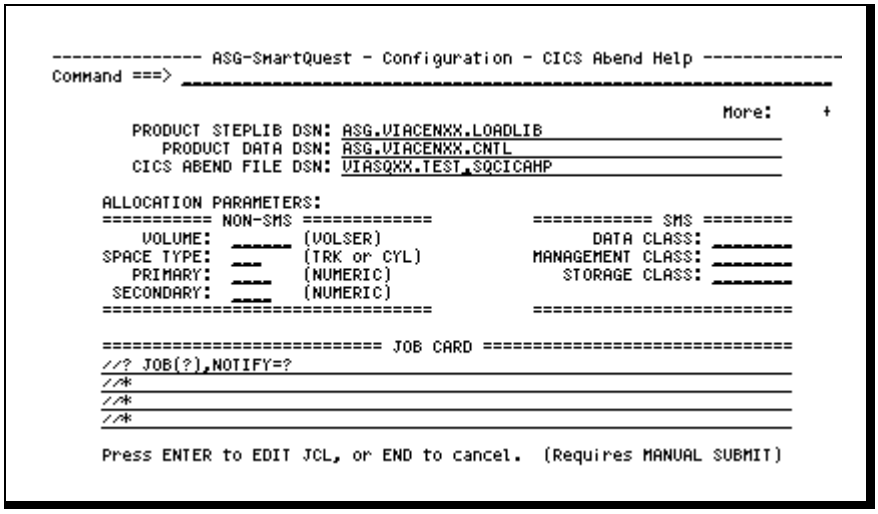
6 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

To allocate the MVS or CICS abend code file

The abend code dataset will contain the list of abend codes you elect to exclude. By default, SmartQuest captures dumps for all jobs or transactions (excluding AZ16) except those that you specify. See "Excluded Abend Codes (MVS)" on page 37 and "Excluded Abend Codes (CICS)" on page 48 for more information.

1 Select option 2 (for CICS) or option 3 (for MVS) on the ASG-SmartQuest - Configuration - Help and Abend Codes Menu. The ASG-SmartQuest - Configuration - CICS Abend Help screen, shown in Figure 14, or the ASG-SmartQuest - Configuration - MVS Abend Help screen displays.

Figure 14 • ASG-SmartQuest - Configuration - CICS Abend Help Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for the product data and Abend Codes files.

4 Type the SMS classes, or the Volume and space information for non-SMS.

5 Complete the job card information.

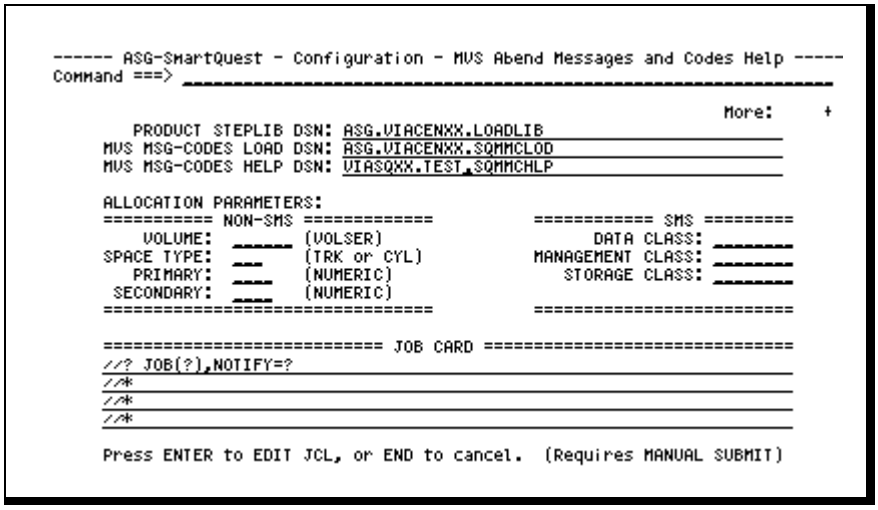
6 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

To allocate the MVS Abend Messages and Codes Help file

The dataset you allocate will contain the IBM abend messages and codes.

1 Select option 4 on the ASG-SmartQuest - Configuration - Help and Abend Codes Menu. The ASG-SmartQuest - Configuration - MVS Abend Messages and Codes Help screen, shown in Figure 15, displays.

Figure 15 • ASG-SmartQuest - Configuration - MVS Abend Messages and Codes Help Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for the messages and codes load module.

4 Type the dataset name for the messages and codes file.

5 Type the SMS classes, or the Volume and space information for non-SMS.

6 Complete the job card information.

7 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

Configuration Option 4 - Allocating the Program Source File

The source file contains the source support information that enables you to view online the source code for your abending programs with the failing statement clearly highlighted. You can allocate multiple source files.

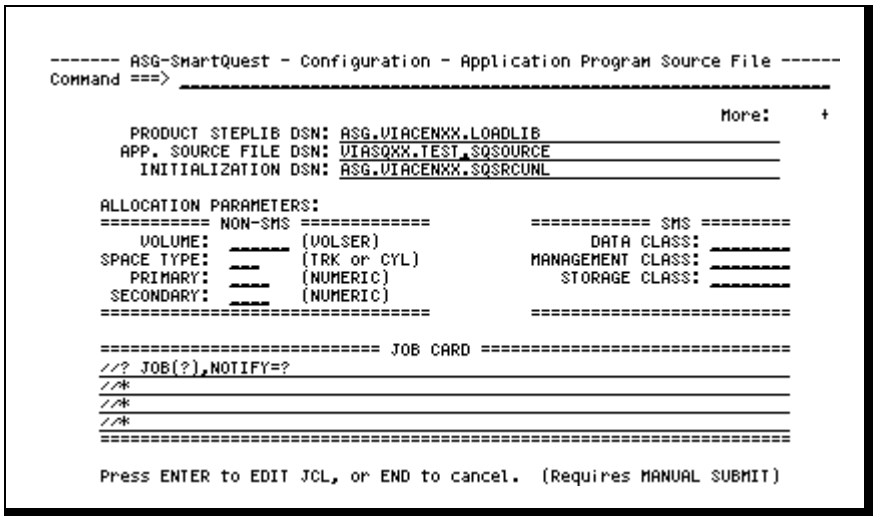
To allocate the program source file

1 Select option 4 from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Configuration - Application Program Source File screen, shown in Figure 16, displays.

Note:

Users should be assigned read-only access for this screen.

Figure 16 • ASG-SmartQuest - Configuration - Application Program Source File Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for your source file.

4 Type the dataset name for the initialization file, which unloads the source file containing the CICS and MVS mappings.

5 Type the SMS classes, or the Volume and space information for non-SMS.

6 Complete the job card information.

7 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

Configuration Option 5 - Allocating the Dump Index File

The dump index file contains control records (i.e., dataset naming standards, last used dump sequence number, authorized volumes for dynamic VSAM file allocation, etc.) that are applied to each dump file. You can allocate multiple dump index files.

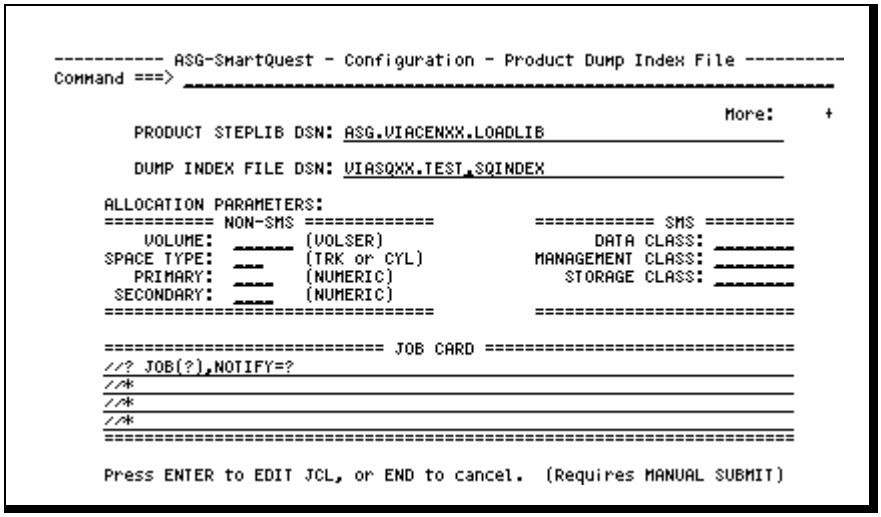
To allocate the dump index file

1 Select option 5 from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Configuration - Product Dump Index File screen, shown in Figure 17, displays.

Note:

Users should be assigned read-only access for this screen.

Figure 17 • ASG-SmartQuest - Configuration - Product Dump Index File Screen



2 Verify that the Product Steplib DSN matches your system.

3 Type the dataset name for your dump index file.

4 Type the SMS classes, or the Volume and space information for non-SMS.

5 Complete the job card information.

6 Press Enter to edit the JCL, then type SUB on the command line and press Enter to submit the job. Press PF3 to exit.

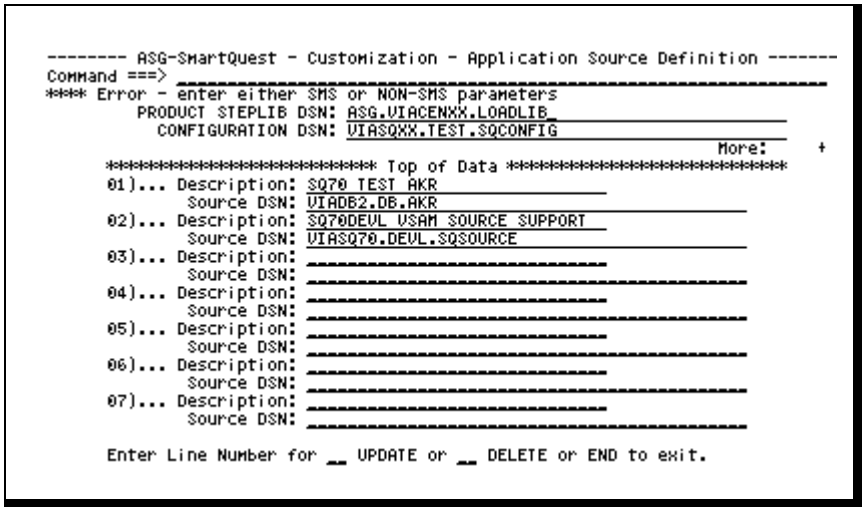
Customization Option A - Managing Application Program Source Definitions

The ASG-SmartQuest - Customization - Application Source Definition screen lets you build and maintain a list of source files and their descriptions.

To add or update a source file definition

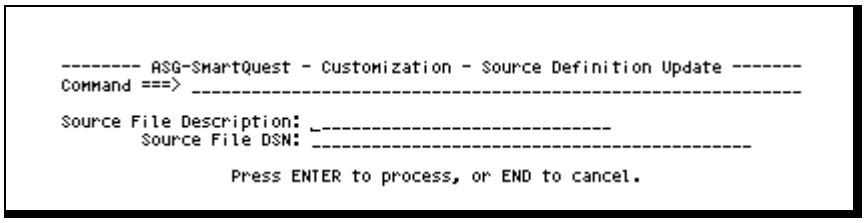
1 Select option A from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Customization - Application Source Definition screen, shown in Figure 18, displays.

Figure 18 • ASG-SmartQuest - Customization - Application Source Definition Screen



2 Type the line number for the source file you want to update (or the line number of an empty line to add a new source file) in the UPDATE field at the bottom of the screen and press Enter. The ASG-SmartQuest - Customization - Source Definition Update pop-up, shown in Figure 19, displays.

Figure 19 • ASG-SmartQuest - Customization - Source Definition Update Pop-up



3 Edit or add the dataset name of the SmartQuest source file, or the name of the ESW ASG-SmartTest AKR.

Note:

You must have the AKR support enabled to use an ASG-SmartTest AKR dataset name. Edit the ASG.VIACEN*xx*.CLIST(VISQVDFT) member to set this default value. Also, the AKR must have a low-level qualifier of .AKR to be used.

4 Type a description for the source file and press Enter to add or update the source file and return to the ASG-SmartQuest - Configuration and Customization screen.

To delete a source file

1 On the ASG-SmartQuest - Customization - Application Source Definition screen, type the line number of the source file you want to delete in the DELETE field at the bottom of the screen.

2 Press Enter to delete the source file and return to the ASG-SmartQuest - Configuration and Customization screen.

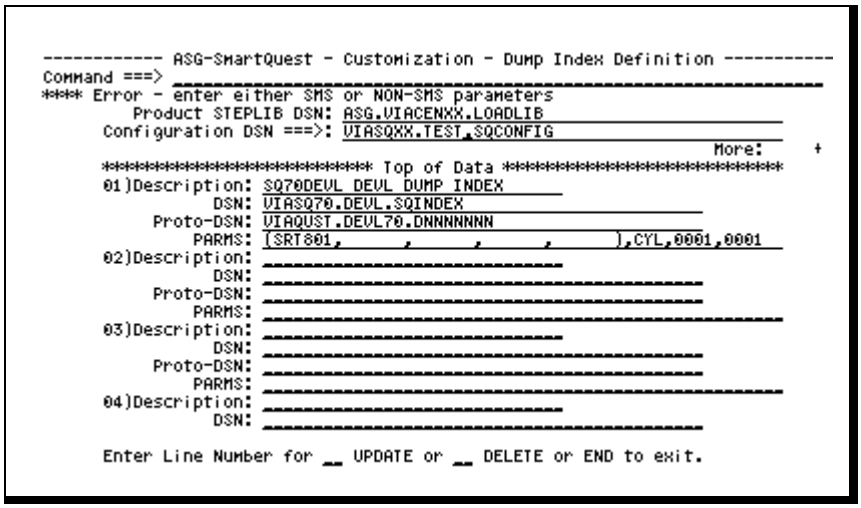
Customization Option B - Managing Dump Index Definitions

The ASG-SmartQuest - Customization - Dump Index Definition screen lets you build and maintain a list of dump index files and their descriptions. This screen displays the dump index dataset name and description, the prototype dump index dataset name, and the file allocation parameters of existing dump indexes.

To add or update a dump index definition

1 Select option B from the ASG-SmartQuest - Configuration and Customization menu and press Enter. The ASG-SmartQuest - Customization - Dump Index Definition screen, shown in Figure 20, displays.

Figure 20 • ASG-SmartQuest - Customization - Dump Index Definition Screen

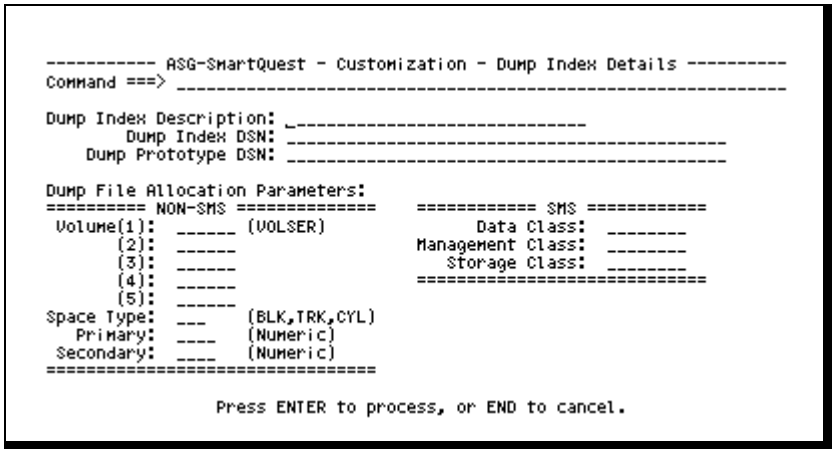


2 Type the line number for the dump index file you want to update (or the line number of an empty line to add a new dump index file) in the UPDATE field and press Enter. The ASG-SmartQuest - Customization - Dump Index Details pop-up, shown in Figure 21, displays.

Note:

This screen is blank if you have not defined any dump index files. If you are updating an existing dump index, the current dump indexes display. You can scroll this screen.

Figure 21 • ASG-SmartQuest - Customization - Dump Index Detail Screen



a If you are adding a new dump index, type the name of the dump index dataset and provide a description.

b Type the dataset name for the dump prototype. The dataset name for the Dump Prototype DSN field must contain the suffix DNNNNNNN.

c Add or modify the allocation parameters.

d Press Enter to save your changes, or type `END` on the command line and press Enter to exit without saving.

3 Press PF3 to exit.

To delete a dump index file

1 On the ASG-SmartQuest - Customization - Dump Index Definition screen, type the line number of the source file you want to delete in the DELETE field and press Enter.

2 Press PF3 to exit.

Customization Option C - Managing MVS Dump Capture Parameters

To customize SmartQuest for your MVS environment

1 Select option C from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Customization - MVS Capture Parameters Menu, shown in Figure 22, displays.

Figure 22 • ASG-SmartQuest - Customization - MVS Capture Parameters Menu

```
--------- ASG-SmartQuest - Customization - MVS Capture Parameters Menu --------
Option  ===> ____________________________________________________________
                                                              More:      +
      Product Steplib =====>: ASG.VIACENXX.LOADLIB
      Configuration DSN ===>: VIASQXX.TEST.SQCONFIG

      1)   General Capture and Output Parameters
      2)   Excluded Abend Codes
      3)   Include-Exclude Job Names
      4)   Abend Notification
      5)   Dump Capture File Set Definitions
      6)   Dump Capture File Set Assignments
      7)   PL1 Condition Actions

      -------------------- Recent Configuration DSNs ---------------------
              ===> _____.________.____________________________________
              ===> ____________________________________________________
              ===> ____________________________________________________
              ===> ____________________________________________________
              ===>
```

2 Type the dataset name of your configuration file.

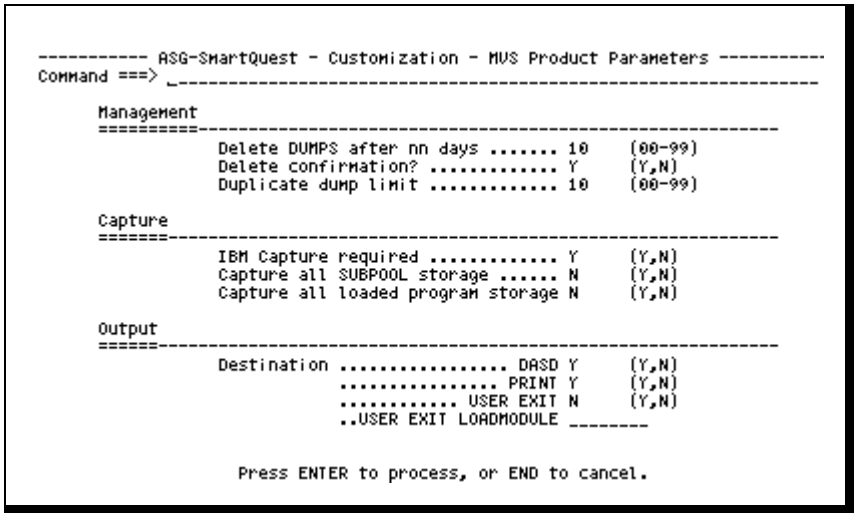
3 Type 1 through 7 and press Enter to display the selected parameters screen, or press PF3 to exit.

General Capture and Output Parameters (MVS)

To specify how you want SmartQuest to manage your dumps

1 Select option 1 to display the ASG-SmartQuest - Customization - MVS Product Parameters screen shown in Figure 23.

Figure 23 • ASG-SmartQuest - Customization - MVS Product Parameters Screen



2 Complete the parameter fields as applicable to your system and as described in this table:

Parameter	Description
Delete DUMPS after *nn* days	SmartQuest has a dump delete utility. All dumps older than the number of days specified on this parameter are deleted when you run the utility. See "Using the Offline Delete Utility" on page 121 for more information about the utility. The default value is 10 days and the maximum value is 99 days. Use a value of 0 (zero) to disable this feature completely. ASG recommends that you use the utility because manual dump deletion can be time intensive. You can exclude individual dumps from the auto-delete process using the Hold option on the Selected Dump List screen if you need to keep them for a longer period.
Delete confirmation	When dumps are manually deleted, confirmation is requested if this parameter is set to Y. The default is Y and ASG recommends that you do not change this value.

Parameter	Description
Duplicate dump limit	In any single day, if an abend is in the same program, at the same offset, and has the same job name and abend code as a dump captured earlier that day, it is considered a duplicate. This parameter specifies the number of duplicate dumps that you want SmartQuest to capture. The default value of zero (0) suppresses all duplicate dumps.
IBM Capture required	After capturing a dump, SmartQuest continues to allow MVS to take a normal dump for the abending job. This increases overhead, but there may be occasions when you need the IBM format dump. The IBM dump is produced because this parameter's default value is Y. If you do not want the IBM dumps to be captured, change this value to N.
Capture all SUBPOOL storage	Certain dumps can be large, especially IMS online regions, and much of the information dumped may never be required. This option allows you to suppress or allow the capture of all subpool storage. If set to N (the default value), only storage from subpools 0 and 1 is obtained, as well as program storage for all programs in the active calling chain. If set to Y, all subpool storage is captured. Use this DD card to override an N setting for an individual job: `//FULINQST  DD DUMMY`
Capture all loaded program storage	For large dumps there can be many loaded programs, especially for IMS online regions. This information may not be required and can be suppressed by specifying N (the default value) here. A setting of Y causes all loaded program storage to be captured. Use this DD card to override an N setting for individual jobs: `//FULINQST  DD  DUMMY`
Output	By default, dumps are written to the VSAM KSDS dump file from where they can be analyzed by using the powerful dump viewer. You can also request a printed summary of the dump to be produced as part of the abending job output. You can use this printed summary alone, or in conjunction with the VSAM file output.
Destination DASD	Writes dumps to the VSAM file. Y is the default value.

Parameter	Description
Destination PRINT	Provides a printed summary of the dump. Y is the default value. For more details of the printed dump summary see the *ASG-SmartQuest User's Guide*.
Destination USER EXIT	Enables you to use a user exit interface for integration with fault management products such as ASG-IMPACT. If you specify Y in this field, you must also enter the name of the user exit in the USER EXIT LOADMODULE field. For more information on the user exit interface, see "Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)" on page 96.
Destination USER EXIT LOADMODULE	If you specified Yes in the User Exit Destination field, enter the name of your output destination user exit. The ASGSQIAS load module is provided as an example you can modify. See "Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)" on page 96.

Supplemental Diagnostic Data	Specifies whether the JES log will be output to the abending address space (i.e., batch job or CICS region). The log includes the Index Dataset Name and the actual Dump Dataset Name the dump was written to. The messages are displayed in this format:
	
	`IQ$D020I - IDSN=ASG.VIACEN`*`xx`*`.SQINDEX`
	`IQ$D021I - DDSN=ASG.VIACEN`*`xx`*`.D0000001`

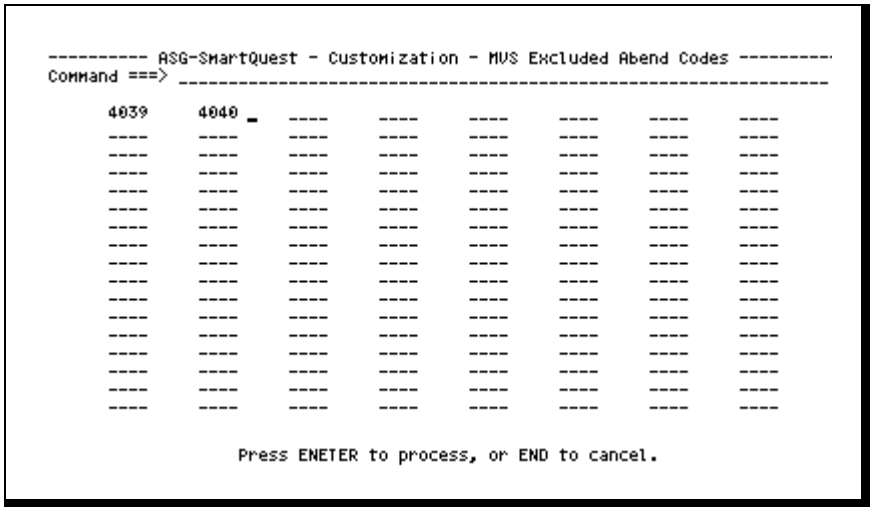
Excluded Abend Codes (MVS)

To control which abend codes SmartQuest processes

By default, SmartQuest captures dumps for all jobs except those that abend with codes that you specify on this screen. ASG strongly recommends that you exclude common abends that do not require a dump to avoid unnecessary dump file reorganization.

1 Select option 2 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - MVS Excluded Abend Codes screen, shown in Figure 24, displays.

Figure 24 • ASG-SmartQuest - Customization - MVS Excluded Abend Codes Screen



2 Type the abend codes you want to exclude. You can enter generic abend codes. For example, to exclude all abends beginning with AZI, type `AZI*`. You can also use the question mark (?) character to represent any character. for example, to exclude all abend codes that start with S and end with 37, type `S?37`.

3 Press PF3 to exit.

To remove an excluded abend code entry, follow this step:

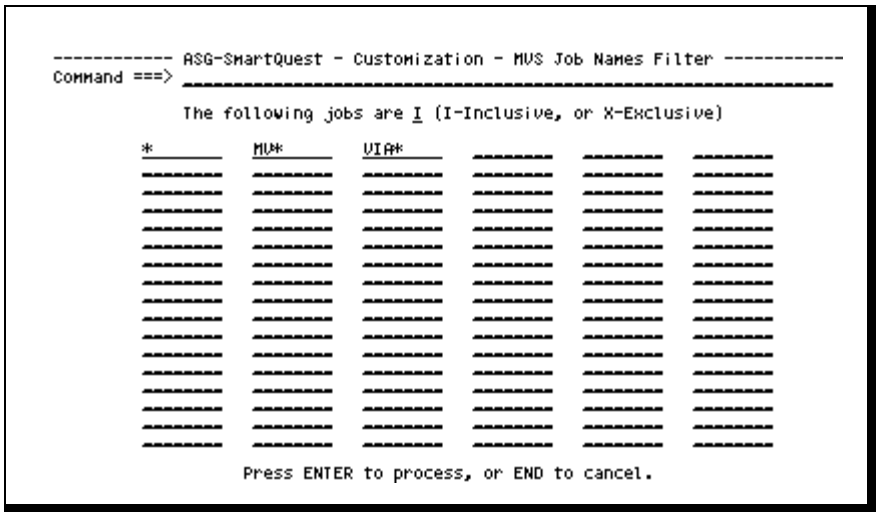
- Type over the entry with spaces or use the erase EOF key.

Include/Exclude Job Names

To control which abending jobs SmartQuest processes

1 Select option 3 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - MVS Job Names Filter screen, shown in Figure 25, displays.

Figure 25 • ASG-SmartQuest - Customization - MVS Job Names Filter Screen



2 If you want to specify an exclude table, type over the `I` with an `X`.

Note:

SmartQuest initially displays an I (Inclusive table) in this field. This indicates that SmartQuest will only capture dumps for jobs that match the entries listed on this screen. If you specify an X (Exclusive table), SmartQuest captures dumps for all jobs except those that you specify on this screen.

3 Type the name(s) of the job(s) you want to include or exclude. You can enter generic job names. For example, to include or exclude all jobs starting with the characters MYJOB type `MYJOB*`. You can also use the question mark (?) character to represent any character. For example, to include or exclude any job with a name ending in TST, type `?????TST`.

4 Press PF3 to save and exit.

To remove an included or excluded job name entry, follow this step:

- Type over the entry or use the erase EOF key.

You can also include or exclude any individual job, without adding an entry to this screen, by adding this DD card to your jobs JCL:

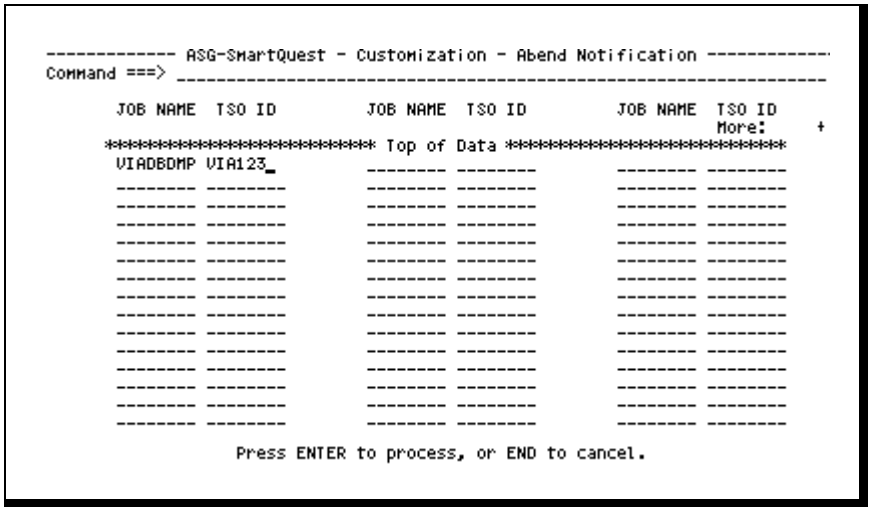
```
//NONINQST DD DUMMY
```

Abend Notification

To set up a TSO notify

1 Select option 4 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - Abend Notification screen, shown in Figure 26, displays.

Figure 26 • ASG-SmartQuest - Customization - Abend Notification Screen



2 In the Job name column, type a job name, a generic job name, or a job name pattern.

3 In the TSO ID column, type the TSO ID of the person to be notified. For example, to specify a notify for all jobs:

- **a** commencing with the characters BP, type `BP*` in the job name column
- **b** ending with TST, type `?????TST` in the job name column
- **c** with SYSP as the 2nd to 5th character, type `?SYSP*`

You can have multiple entries for the same job name pattern each with a different TSO ID. This allows you to have multiple people notified if important jobs abend.

To delete an entry from this list, follow this step:

- Type spaces over the job name field or by using the erase EOF key.

Note:

You cannot delete the Default entry, but you can assign a TSO ID of NONE which does not produce a TSO notify message.

Dump Capture File Set Definitions (MVS)

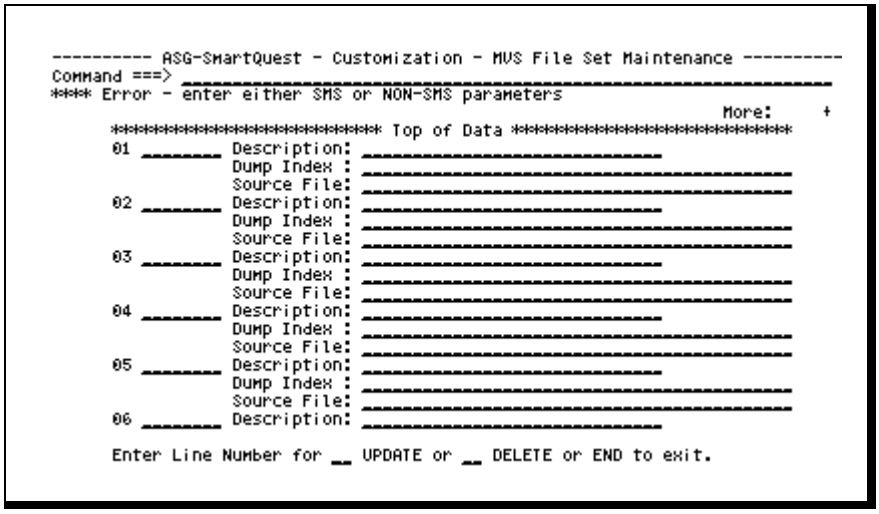
To manage file sets

Note:

You must add at least one file set name to this screen before you can add jobnames to the ASG-SmartQuest - Customization - MVS File Set Assignment screen in "Dump Capture File Set Assignments (MVS)" on page 42.

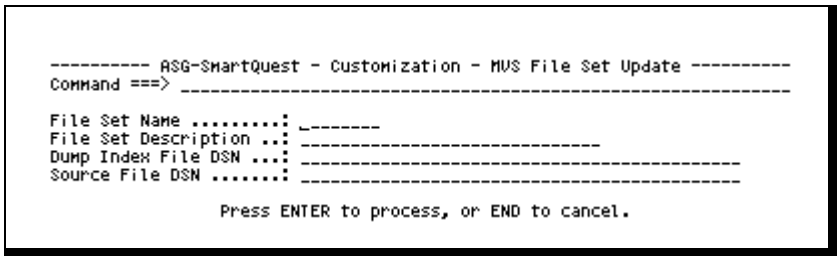
1 Select option 5 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - MVS File Set Maintenance screen, shown in Figure 27, displays.

Figure 27 • ASG-SmartQuest - Customization - File Set Maintenance Screen



2 Type the line number for the file set you want to update (or the line number of an empty line to add a new file set) in the UPDATE field and press Enter. The ASG-SmartQuest - Customization - MVS File Set Update pop-up, shown in Figure 28, displays.

Figure 28 • ASG-SmartQuest - Customization - MVS File Set Update Pop-up



a Add or modify the name and description for the file set in the File Set Name and File Set Description fields.

b Add or modify the name of the dataset for the dump index file to be used to store this file set.

c Type the dataset name of the source file.

3 Press Enter to save and PF3 to exit.

Dump Capture File Set Assignments (MVS)

The ASG-SmartQuest - Customization - MVS File Set Assignment screen enables you to assign similar dump captures to a specific dump index file. When processing dumps, SmartQuest reads this list from the top down and assigns the dump capture to the first matching dump index file (file set) name.

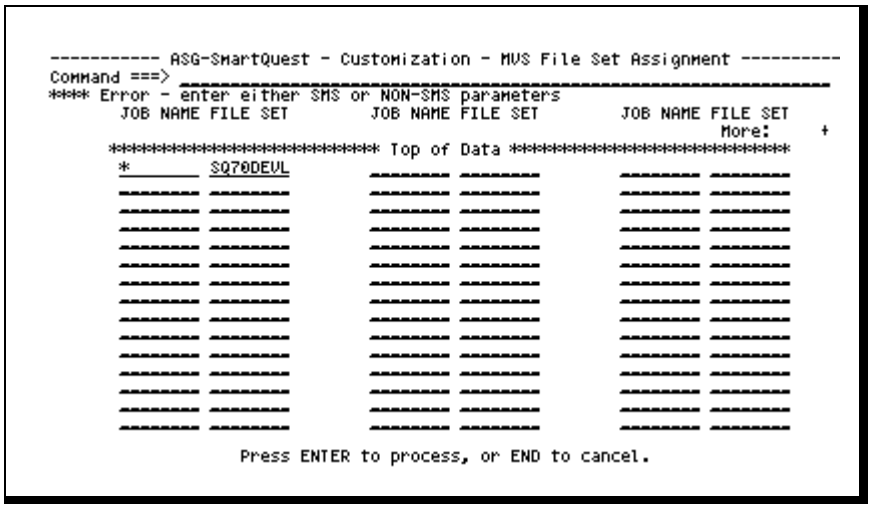
Note:

You must add at least one file set name to the ASG-SmartQuest - Customization - MVS File Set Maintenance screen (Figure 27 on page 41) before you can add jobnames to the ASG-SmartQuest - Customization - MVS File Set Assignment screen.

To assign dump captures to a specific dump index file

1 Select option 6 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - MVS File Set Assignment screen, shown in Figure 29, displays.

Figure 29 • ASG-SmartQuest - Customization - MVS File Set Assignment Screen



2 Type the job name in the Job Name field and assign a dump index file by typing the file set name in the File Set field.

3 Press Enter to save and PF3 to exit.

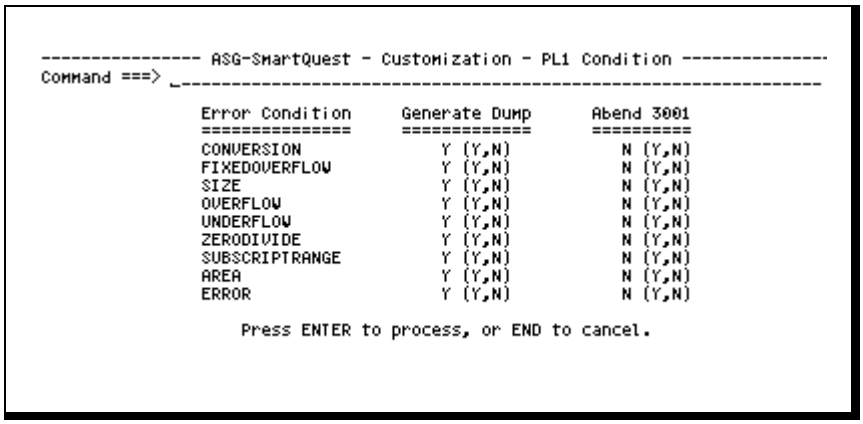
PL/I Condition Actions

The PL/I Condition Actions option is for PL/I users who are running PL/I without LE run-time libraries and are using the STAE/SPIE run-time options. Certain PL/I conditions drive the PL/I error handling routines and therefore also invoke SmartQuest. Some of these conditions are genuine errors, while others are not and no dump is required.

To specify which conditions require a dump

1 Select option 7 on the ASG-SmartQuest - Customization - MVS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - PL/I Condition screen, shown in Figure 30, displays.

Figure 30 • ASG-SmartQuest - Customization - PL/I Condition Screen



2 Specify Y or N to specify whether to generate a dump and/or force a 3001 abend for the error conditions.

You can choose to force a user 3001 abend when certain conditions are met. This may be useful for IMS users because it causes back-out without the need to write your own PL/I user exit. A 3001 abend is not produced when a PL/1 program has its own ON ERROR routine specified.

Note:

The ERROR condition is driven when an abend has been detected, as well as when a SIGNAL ERROR is issued. Therefore specifying a 3001 abend for the ERROR condition also forces a 3001 after SmartQuest has handled intercepted system abends. Specifying YES for 3001 abend when the ERROR condition is detected causes SmartQuest to produce a 3001 user abend after a call to PLIDUMP which has an S (Stop) or E (Exit) option.

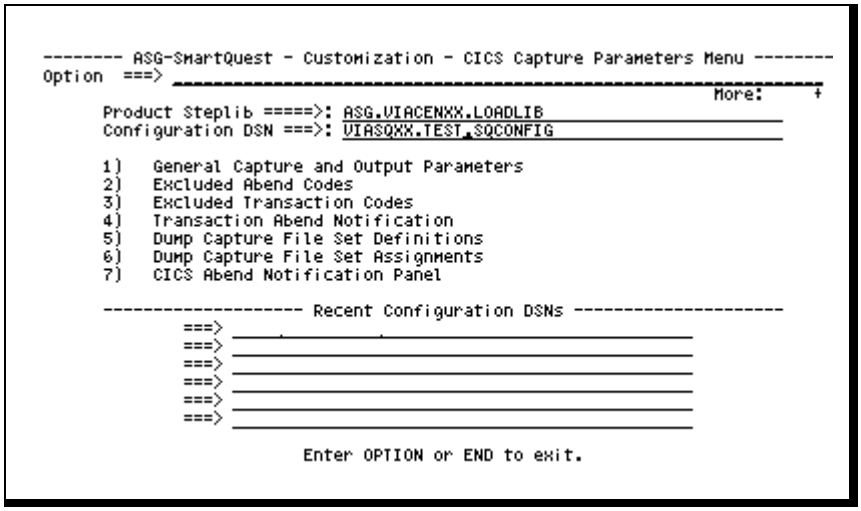
3 Press Enter to save and then PF3 to exit.

Customization Option D - Managing CICS Dump Capture Parameters

To customize SmartQuest for your CICS environment

1 Select option D from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Customization - CICS Capture Parameters Menu, shown in Figure 31, displays.

Figure 31 • ASG-SmartQuest - Customization - CICS Capture Parameters Menu



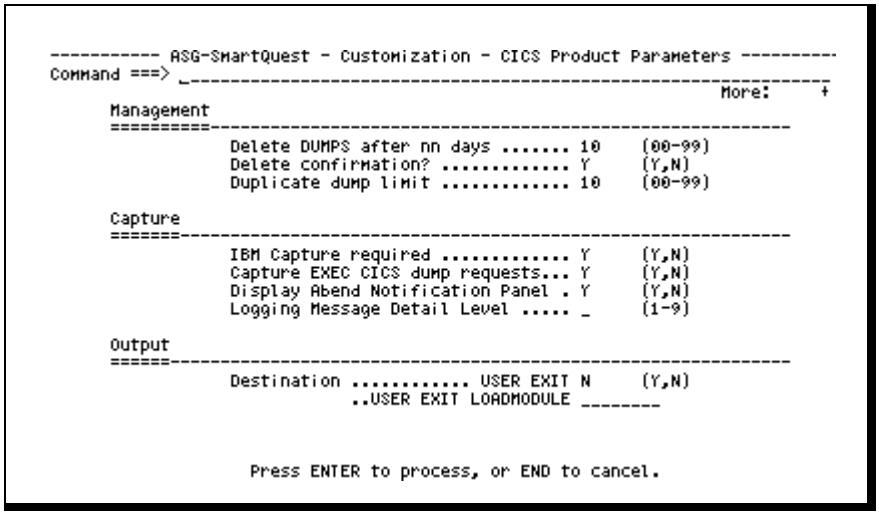
2 Press Enter to display the selected screen, or PF3 to exit.

General Capture and Output Parameters (CICS)

To specify how you want SmartQuest to manage your dumps

1 Select option 1 to display the ASG-SmartQuest - Customization - CICS Product Parameters screen shown in Figure 32.

Figure 32 • ASG-SmartQuest - Customization - CICS Product Parameters Screen



2 Complete the parameter fields as applicable to your system and as described in this table:.

Parameter	Description
Delete DUMPS after *nn* days	Specifies that all dumps older than the number of days specified on this parameter are deleted when you run the utility. See "Using the Offline Delete Utility" on page 121 for more information about this utility. The default value is 10 days and the maximum value is 99 days. Use a value of 0 (zero) to disable this feature completely. ASG recommends that you use the auto-delete utility because manual dump deletion can take some time. You can exclude individual dumps from the auto-delete process using the Hold option on the Selected Dump List screen if you need to keep them for a longer period.
Delete confirmation	Specifies whether confirmation is requested when dumps are manually deleted. The default is Y and ASG recommends that you do not change this value.

Parameter	Description
Duplicate dump limit	Specifies the number of duplicate dumps that you want SmartQuest to capture. In any single day, if an abend is in the same program, at the same offset, and has the same transaction ID and abend code as a dump captured earlier that day, it is considered a duplicate. The default value of 0 (zero) suppresses all duplicate dumps.
IBM Capture required	Specifies whether, after capturing a dump, SmartQuest continues to allow CICS to take a normal transaction dump for the abending task. This increases overhead, but there may be occasions when you need the IBM format dump. The IBM dump is produced because this parameter's default value is Y. If you do not want the IBM transaction dumps to be captured change this value to N.
Capture EXEC CICS dump requests.	Specifies whether you want SmartQuest to capture user-requested dumps.
Display Abend Notification Panel	Specifies whether you want to display a notification screen at the terminals when tasks abend and terminate and SmartQuest processes the resulting dump. It is not displayed when a task issues an EXEC CICS DUMP and continues processing afterwards. The default value is Y. If you already have your own Abend Notification screen, perhaps by using a DFHPEP program, ensure that an RDO definition for this program is included and installed in your DFHCSD file and modify your DFHPEP program to issue a link to VICQMUPN using this format: `EXEC CICS LINK PROGRAM(VICQMUPN) COMMAREA(address of commarea passed to DFHPEP by CICS) LENGTH(Length of commarea passed to DFHPEP by CICS)` You can also suppress this feature by specifying N to this parameter. See "User Abend Notifications" on page 55 for information about customizing this screen
Logging Message Detail Level	Determines the level of detail you want to receive for SmartQuest status and progress messages. The valid values are 1 through 9 and the default level is 1. You can modify this parameter using the MSGLEVEL operand on the INIT or ALTER command. See "Starting SmartQuest" on page 105 for more information about using the IQST transaction commands.

Parameter	Description
Destination USER EXIT	Specifies whether you want to enable a user exit for your destination output, which allows for integration with fault management products such as ASG-IMPACT. If you specify Y in this field, you must also enter the name of your user exit in the Output information to user exit field. See "Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)" on page 96 for more information.
Destination USER EXIT LOADMODULE	Specifies the name of the output destination user exit, if you specified Yes in the Output Destination User Exit field. The ASGSQIAS load module is provided as an example you can modify. See "Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)" on page 96.

Supplemental Diagnostic Data	Specifies whether the JES log will be output to the abending address space (i.e., batch job or CICS region). The log includes the Index Dataset Name and the actual Dump Dataset Name the dump was written to. The messages are displayed in this format:
	
	`IQ$D020I - IDSN=ASG.VIACEN`*`xx`*`.SQINDEX`
	`IQ$D021I - DDSN=ASG.VIACEN`*`xx`*`.D0000001`

3 Press Enter to save and PF3 to exit.

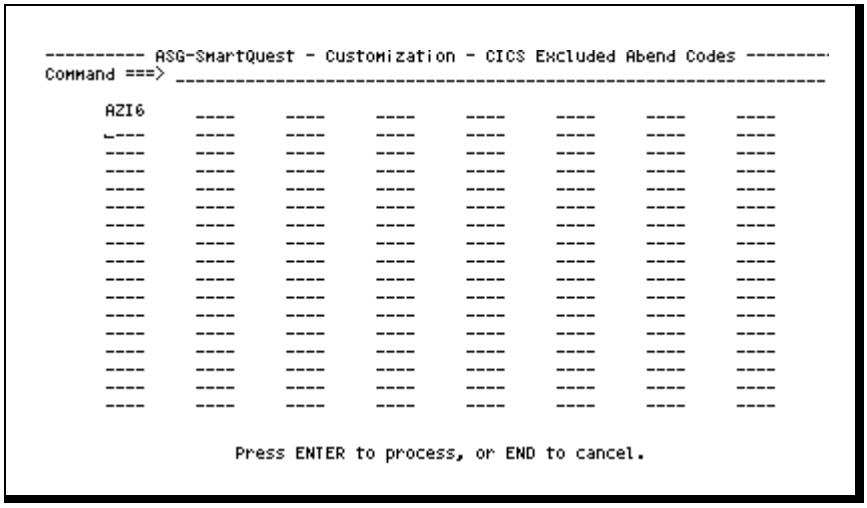
Excluded Abend Codes (CICS)

To control which abend codes SmartQuest processes

By default, SmartQuest captures dumps for all transactions (excluding AZI6) except those that abend with codes that you specify on this screen. ASG strongly recommends that you exclude common abends that do not require a dump to avoid unnecessary dump file reorganization.

1 Select option 2 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS Excluded Abend Codes screen, shown in Figure 33, displays.

Figure 33 • ASG-SmartQuest - Customization - CICS Excluded Abend Codes Screen



2 Type the abend codes you want to exclude. You can enter generic abend codes. For example, to exclude all abends beginning with AZI, type `AZI*`. You can also use the question mark (?) character to represent any character. for example, to exclude all abend codes that start with S and end with 37, type `S?37`.

3 Press Enter to save and then PF3 to exit.

To remove an excluded abend code entry, follow this step:

- Type over the entry with spaces or use the erase EOF key.

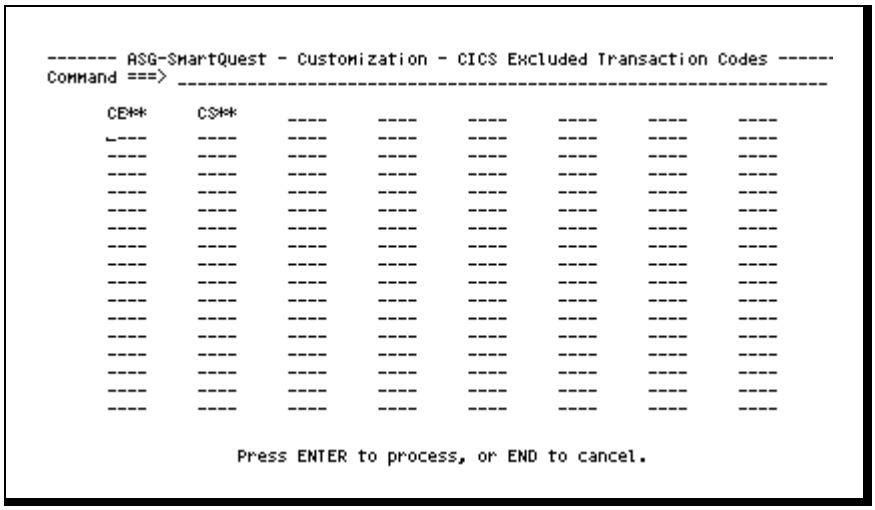
Excluded Transaction Codes

You can control which abending transactions SmartQuest processes. By default, SmartQuest captures transaction dumps for all transactions except those that start with CE or CS.

To exclude transaction dumps

1 Select option 3 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS Excluded Transaction Codes screen, shown in Figure 34, displays.

Figure 34 • Excluded Transaction Codes Screen



2 Type in the transaction codes you want to exclude and press Enter. Transaction codes can be generic. For example to exclude all transactions beginning with C, type `C***`.

3 Press Enter to save and then PF3 to exit

To remove an excluded transaction entry, follow this step:

- Type over it with spaces or use the erase EOF key.

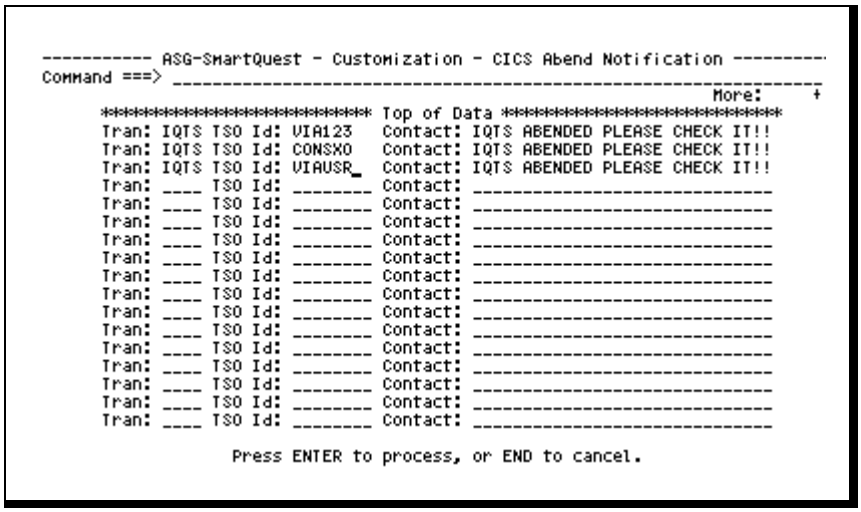
Transaction Abend Notifications

If you are using the ASG-SmartQuest - Customization - CICS Abend Notification Panel screen (see Figure 39 on page 55) with the contact name feature (that is, it contains the CONTACT symbolic variable), you can vary the contact information displayed on this screen based on the transaction ID or generic transaction ID.

To set up a notification in case of a transaction abend

1 Select option 4 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS Abend Notification screen, shown in Figure 35, displays.

Figure 35 • ASG-SmartQuest - Customization - CICS Abend Notification Screen



2 Complete these fields:

a Type the transaction ID in the Tran field. The transactions entered can be generic. For example, to have the same contact information for all transactions beginning with BA, type BA**.

b Type the TSO user ID of the department or person to whom the abend should be reported. This is the user ID that receives a message when the transaction specified, or a transaction matching the generic specification for this entry, abends. Leave this column blank or specify NONE if you do not require the TSO notify feature.

c Specify the name and telephone number of the department or person. You can also provide an optional TSO notify.

3 Modify the TSO user ID and the contact name for the default entry.

The single entry with transaction ID **** is supplied as the default and cannot be deleted. It is used as a catch-all for any transaction that does not match any user-specified entry. Alternatively, you can suppress the use of the user Abend Notification screen or avoid using the %CONTACT variable.

To delete an entry, except the default entry, follow this step:

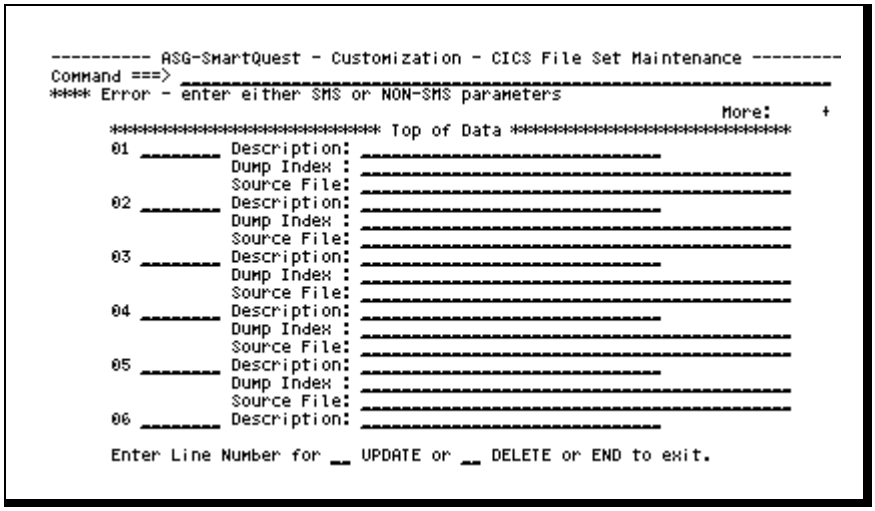
- Type over the entry with spaces or use the erase EOF key.

Dump Capture File Set Definitions (CICS)

To manage file sets

1 Select option 5 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS File Set Maintenance screen, shown in Figure 36, displays.

Figure 36 • ASG-SmartQuest - Customization - File Set Maintenance Screen

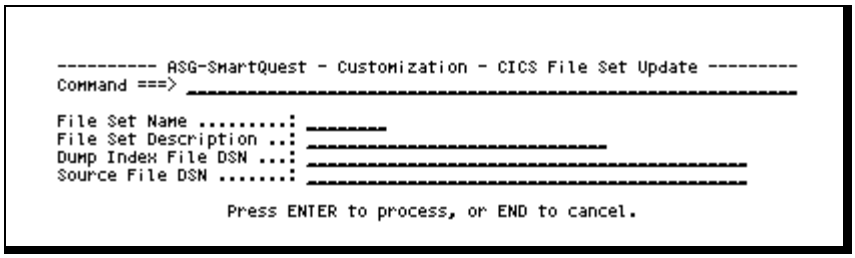


Note:

You must add at least one file set name to this screen before you can add APPLIDs to the ASG-SmartQuest - Customization - CICS File Set Assignment screen (see Figure 38 on page 54) in "Dump Capture File Set Assignment (CICS)" on page 53.

2 Type the line number for the file set you want to update (or the line number of an empty line to add a new file set) in the UPDATE field and press Enter. The ASG-SmartQuest - Customization - CICS File Set Update screen, shown in Figure 37, displays.

Figure 37 • File Set Definition Screen - CICS



3 Type a name and description for the file set in the File Set Name and File Set Description fields.

4 In the Dump Index File field, specify the dataset name of the dump index file to be used for this file set.

5 Type the name of the source file to be used.

6 Press Enter to save, then PF3 to exit.

Dump Capture File Set Assignment (CICS)

The File Set Assignment screen enables you to assign similar dump captures to a specific dump index file. When processing dumps, SmartQuest reads this list from the top down and assigns the dump capture to the first matching dump index file (file set) name.

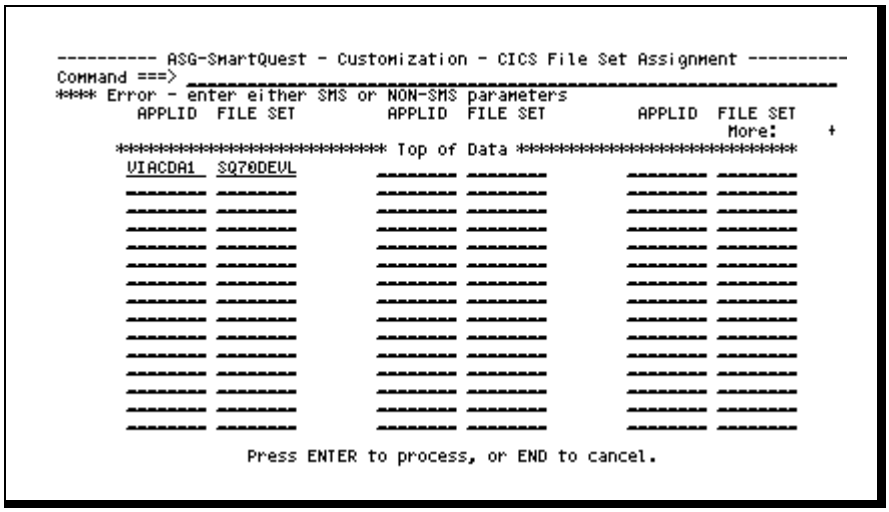
Note:

You must add at least one file set name to the ASG-SmartQuest - Customization - CICS File Set Maintenance screen (Figure 36 on page 52) before you can add APPLIDs to the File Set Assignment screen.

To assign dump captures to a specific dump index file

1 Select option 6 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS File Set Assignment screen, shown in Figure 38, displays.

Figure 38 • ASG-SmartQuest - CICS File Set Assignment Screen



2 Type the APPL ID in the APPLID field and assign a dump index file by typing the file set name in the File Set field.

3 Press Enter to save, then PF3 to exit.

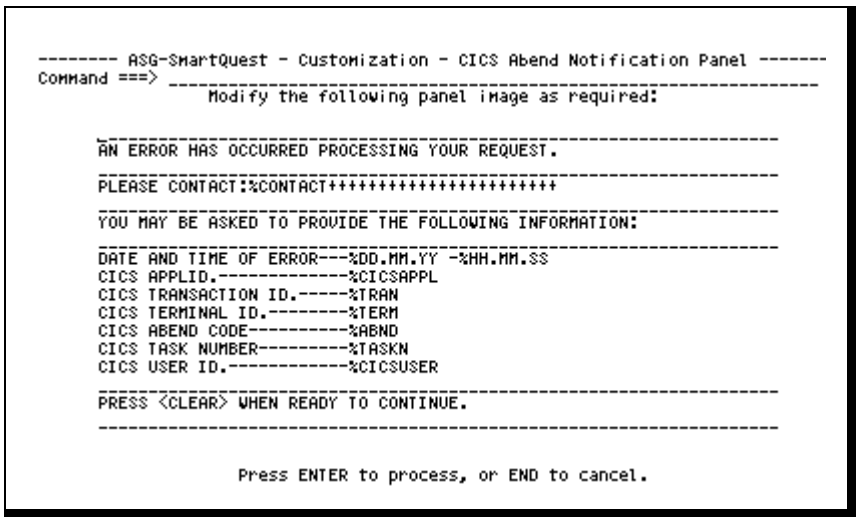
User Abend Notifications

The ASG-SmartQuest - Customization - CICS Abend Notification Panel screen lets you display any text at the terminal where the transaction has abended. Normally you would provide a name and telephone number that the user should contact to report the abend. The screen has 18 lines in total, but all or some can be blank lines.

To specify user abend information

1 Select option 7 on the ASG-SmartQuest - Customization - CICS Capture Parameters Menu and press Enter. The ASG-SmartQuest - Customization - CICS Abend Notification Panel screen, shown in Figure 39, displays.

Figure 39 • ASG-SmartQuest - Customization - CICS Abend Notification Panel



2 Complete the fields using the descriptions in this table:

Symbolic Variable	Description
%CONTACT++++++++++++++++++++++++	Specifies the name and telephone number of the person or department who should be contacted when the abend occurs. This contact information can vary by transaction ID or generic transaction ID, based on customization Option 4, described in "Transaction Abend Notifications" on page 51.
%DD.MM.YY	Specifies the date the abend occurred in the format DD.MM.YY (day, month, year).
%HH.MM.SS	Specifies the time the abend occurred in hours, minutes, and seconds.

Symbolic Variable	Description
%CICSAPPL	Specifies the APPLID of the CICS region where the abend occurred.
%TRAN	Specifies the abending transaction ID.
%TERM	Specifies the abending terminal ID.
%ABND	Specifies the abend code.
%TASKN	Specifies the abending task number.
%CICSUSER	Specifies the CICS user ID.

Note:

Several variables have been provided to allow data to be merged with your text. These variable fields are identified with a prefix %. The value substituted for each variable occupies the same number of bytes as the variable less 1 for the % sign. The contact variable is padded to the right with + signs. Since the % character indicates the start of a symbolic variable, you do not use this character in text. Use blank lines to space out your text and make the presentation more readable.

3 Press Enter to save, then PF3 to exit.

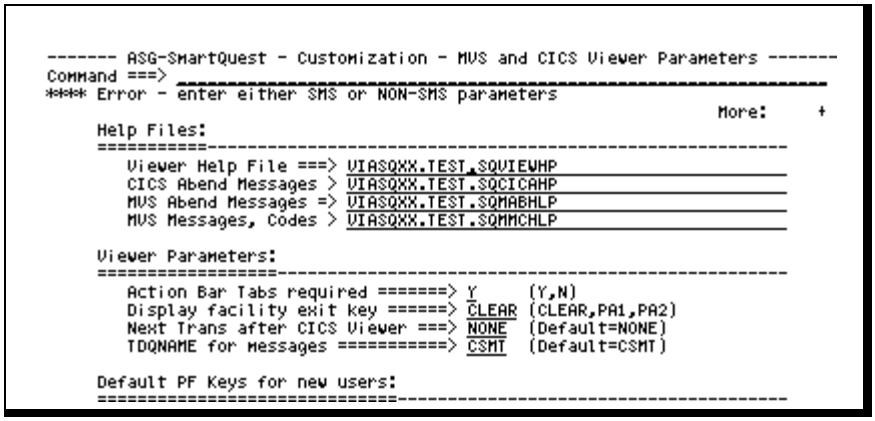
Customization Option E - Manage Dump Viewer CICS and MVS Parameters

This screen enables you to modify the viewer parameters and the commands currently assigned to each PF key.

To customize the Dump Viewer

1 Select option E from the ASG-SmartQuest - Configuration and Customization Menu. The ASG-SmartQuest - Customization - MVS and CICS Viewer Parameters screen, shown in Figure 40, displays.

Figure 40 • ASG-SmartQuest - Customization - MVS and CICS Viewer Parameters Screen



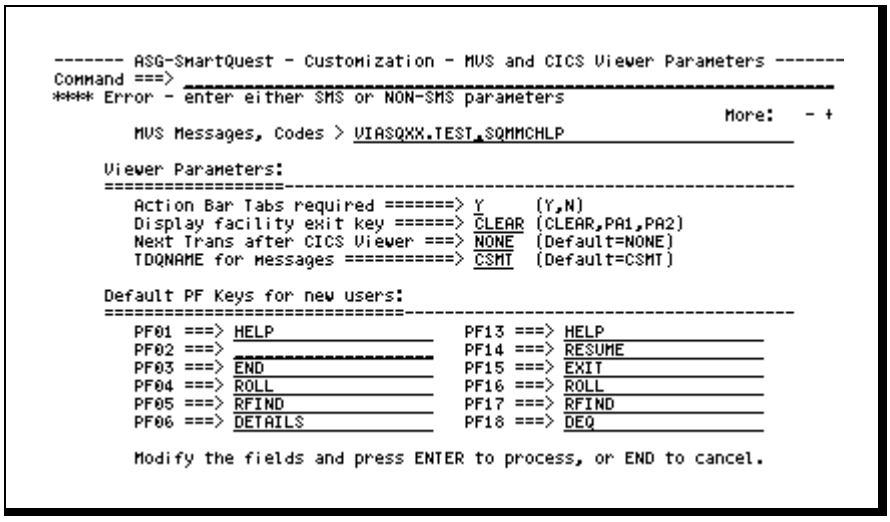
2 Specify the viewer parameters options:

Viewer Parameters	Description
Action Bar Tabs required	The SmartQuest display viewer uses an action bar. Specifying N for this parameter does NOT remove the action bar or prevent its use. With the value set to Y (the default), the action bar fields have TAB attributes. This allows you to use the tab keys to position the cursor on the required action bar field. If you prefer to use commands, you can specify N to globally disable the action bar tabs. Individual users can locally enable and disable these tabs if they so desire.
Display facility exit key	To terminate the SmartQuest dump viewer, by default, you should use the CLEAR key. Some sites, however, may be using third party or home grown products, such as session managers, that have a fixed assignment to the CLEAR key. You may therefore change the default exit key to either PA1 or PA2, as required.

Viewer Parameters	Description
Next Trans after CICS Viewer	When a user exits the SmartQuest CICS dump viewer, you can use this parameter to specify the next transaction ID to be run. For example, you might set this parameter to display a menu or some similar screen. The default value of NONE suppresses this feature.
TDQNAME for messages	This option affects only the CICS dump display interface if you have this optional feature installed. Certain actions carried out in the display viewer (such as dump deleting and printing) produce audit messages. These audit messages are normally written to the CSMT TD queue in CICS. If you want these messages to be written to a different TD queue, specify the desired queue name here.

3 Scroll down (PF8) to see a complete list of PF key values, shown in Figure 41.

Figure 41 • ASG-SmartQuest - Customization - MVS and CICS Viewer Parameters Screen



4 Type the desired commands next to the appropriate PF key name and press Enter.

Individual users can use the PFSHOW command in the dump viewer to customize their own PF key settings. These PF key settings are the global settings used by default when an individual user has not customized their own PF key settings. Changing the PF key values using this option modifies the default PF key settings for both the TSO/ISPF dump display interface and the CICS dump display interface. The changes are effective immediately.

5 Press Enter to save your changes and then PF3 to exit.

Support Option MON - Monitor MVS and CICS Dump Captures

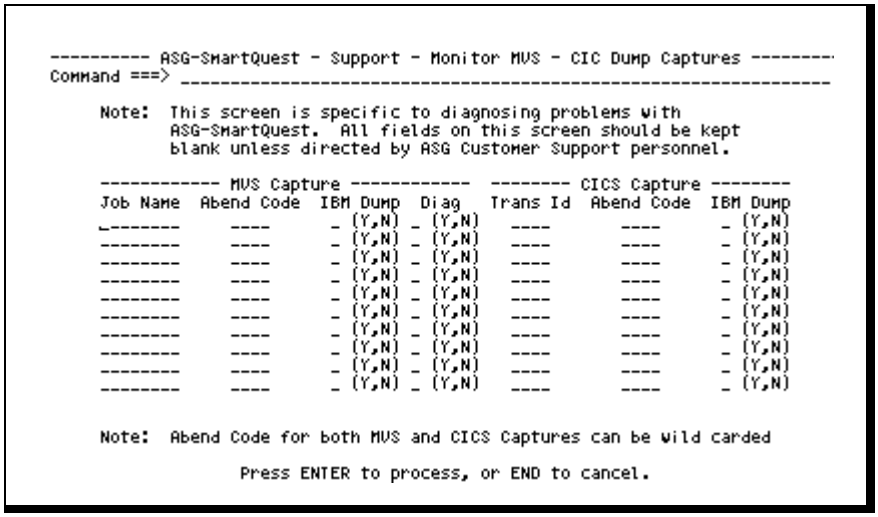
The ASG-SmartQuest - Support - Monitor MVS - CICS Dump Captures screen assists in diagnosing problems.

Caution! Do not enter values on this screen unless directed otherwise by an ASG customer support representative.

To diagnose problems within SmartQuest

1 Type `MON` on the ASG-SmartQuest - Configuration and Customization Menu screen. The ASG-SmartQuest - Support - Monitor MVS - CICS Dump Captures screen, shown in Figure 42, displays.

Figure 42 • ASG-SmartQuest - Support - Monitor MVS - CICS Dump Captures



2 Complete this screen as instructed by your ASG customer support representative.

3 Press Enter to save, then PF3 to exit.

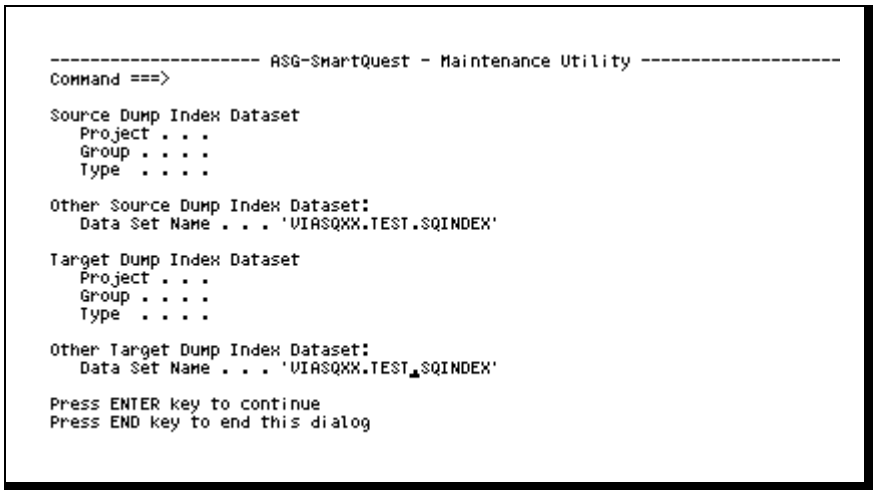
Support Option IMU - Dump File Utility

The ASG-SmartQuest Index Maintenance Utility (IMU) enables you to copy, move, delete, export, and import dump index datasets. For the copy and move functions, you must specify the source index dataset and the target index dataset (the source and target index datasets cannot be the same). You can specify the same index dataset name for the source and target datasets when you delete, export, or import.

To access the Index Maintenance Utility

1 Type `IMU` on the ASG-SmartQuest - Configuration and Customization Menu and press Enter. The ASG-SmartQuest - Maintenance Utility screen, shown in Figure 43, displays.

Figure 43 • ASG-SmartQuest - Maintenance Utility Screen

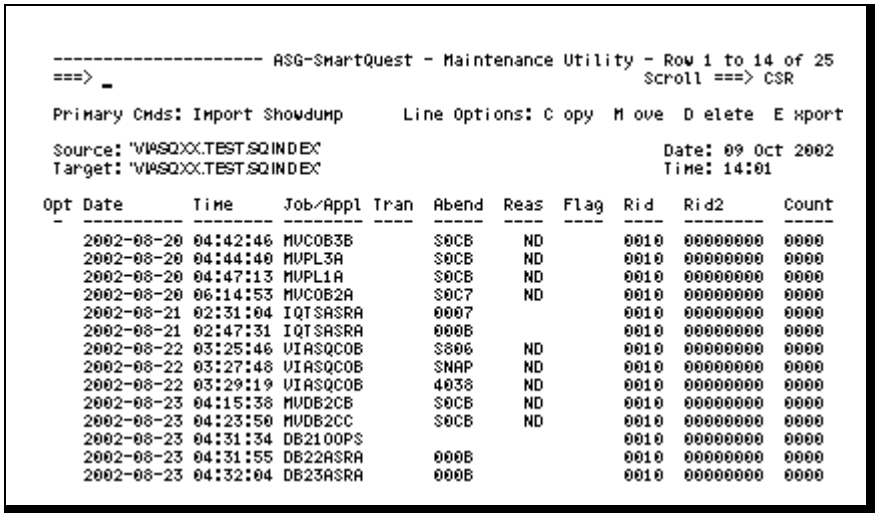


```
---------------------- ASG-SmartQuest - Maintenance Utility --------------------
Command ===>

Source Dump Index Dataset
   Project . . .
   Group . . . .
   Type  . . . .

Other Source Dump Index Dataset:
   Data Set Name . . . 'VIASQXX.TEST.SQINDEX'

Target Dump Index Dataset
   Project . . .
   Group . . . .
   Type  . . . .

Other Target Dump Index Dataset:
   Data Set Name . . . 'VIASQXX.TEST▲SQINDEX'

Press ENTER key to continue
Press END key to end this dialog
```

2 Type the name of the source and the target dump index datasets. You can use the Project, Group, and Type fields, or the Other dataset name field.

3 Press Enter to display the ASG-SmartQuest - Maintenance Utility screen, shown in Figure 44.

Figure 44 • ASG-SmartQuest - Maintenance Utility Screen



```
---------------------- ASG-SmartQuest - Maintenance Utility - Row 1 to 14 of 25
===> _                                                    Scroll ===> CSR

Primary Cmds: Import Showdump      Line Options: C opy  M ove  D elete  E xport

Source: 'VIASQXX.TEST.SQINDEX'                              Date: 09 Oct 2002
Target: 'VIASQXX.TEST.SQINDEX'                              Time: 14:01

Opt Date       Time     Job/Appl Tran  Abend  Reas  Flag  Rid   Rid2      Count
 -  ---------- -------- -------- ----  -----  ----  ----  ----  --------  -----
    2002-08-20 04:42:46 MVCOB3B        S0CB     ND         0010  00000000  0000
    2002-08-20 04:44:40 MVPL3A         S0CB     ND         0010  00000000  0000
    2002-08-20 04:47:13 MVPL1A         S0CB     ND         0010  00000000  0000
    2002-08-20 06:14:53 MVCOB2A        S0C7     ND         0010  00000000  0000
    2002-08-21 02:31:04 IQTSASRA       0007                0010  00000000  0000
    2002-08-21 02:47:31 IQTSASRA       000B                0010  00000000  0000
    2002-08-22 03:25:46 VIASQCOB       S806     ND         0010  00000000  0000
    2002-08-22 03:27:48 VIASQCOB       SNAP     ND         0010  00000000  0000
    2002-08-22 03:29:19 VIASQCOB       4038     ND         0010  00000000  0000
    2002-08-23 04:15:38 MVDB2CB        S0CB     ND         0010  00000000  0000
    2002-08-23 04:23:50 MVDB2CC        S0CB     ND         0010  00000000  0000
    2002-08-23 04:31:34 DB2100PS                           0010  00000000  0000
    2002-08-23 04:31:55 DB22ASRA       000B                0010  00000000  0000
    2002-08-23 04:32:04 DB23ASRA       000B                0010  00000000  0000
```

The ASG-SmartQuest - Maintenance Utility screen displays the specified source and target index datasets, as well as information describing each dump entry in the index. The fields include the date and time the dump was taken, the MVS job or the CICS transaction information, and the record IDs.

Primary Commands

These are the valid primary commands:

Primary Command	Description
IMPORT	Displays the ASG-SmartQuest - Index Maintenance Utility - Import screen, which enables you to import a sequential exported dataset.
SHOWDUMP	Displays the name of the physical dump dataset, which is displayed below the index entry. This is a toggle command.

Line Options

These are the valid line options:

Line Option	Description
C	Copies the selected dump index information from the source index dataset into the specified target index dataset. The index record will reside in the source and target datasets.
D	Deletes the selected dump index information from the source index dataset and then deletes the physical dump dataset. The index dataset and dump dataset information is deleted from the system.

Line Option	Description
E	Displays the Index Maintenance Utility - Export screen, which enables you to export the selected dump index information and the physical dump dataset. The exported dataset is automatically allocated with the correct export attributes and must be assigned a unique dataset name. After the dump is moved to the export dataset, the physical dump and the index information are deleted from the source index dataset and from the system. The exported file is suitable for binary FTP or XMIT to another site where it can be imported and viewed.
M	Moves the selected dump index information from the source into the specified target index dataset. The index record will reside only in the target dataset. **Note:** If the source and target dataset names are the same, you receive a duplicate key error.

Flag Field Values

These are the Flag field values:

Flag	Description
H	The dump is held.
I	The dump is incomplete.
F	The dump is incomplete because the file is full. Increase the size of the dump index dataset.
S	The dump is incomplete because SmartQuest abended.
C	The dump is incomplete because of a capture error.
L	The dump is logically deleted.

To copy or move a dump index file

1 Type C or M to the left of the dump file(s) you want to copy, move, or both.

Caution! ASG recommends that you use the copy feature with caution. When you copy a dump file from the source dump index dataset to the target dump index dataset, both datasets contain a pointer to that file. If you then delete that file from the target dump index dataset, you can corrupt the source dump index dataset.

2 Press Enter. The Flag field will be marked *CPY or *MOV if the action was successful.

To delete a dump index file

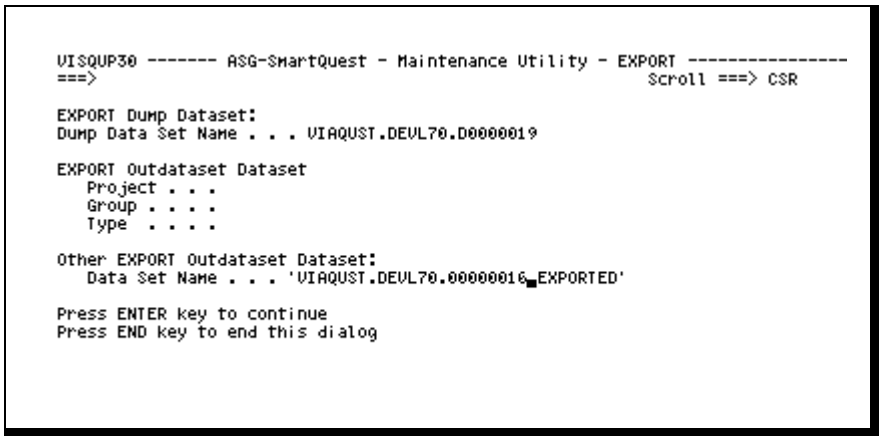
1 Type D to the left of the dump file(s) you want to delete.

2 Press Enter. The Flag field will be marked *DEL if the delete was successful.

To export a dump index file

1 Type E to the left of the dump file(s) you want to export and press Enter. The ASG-SmartQuest - Maintenance Utility - Export screen, shown in Figure 45, displays.

Figure 45 • Maintenance Utility - Export Screen



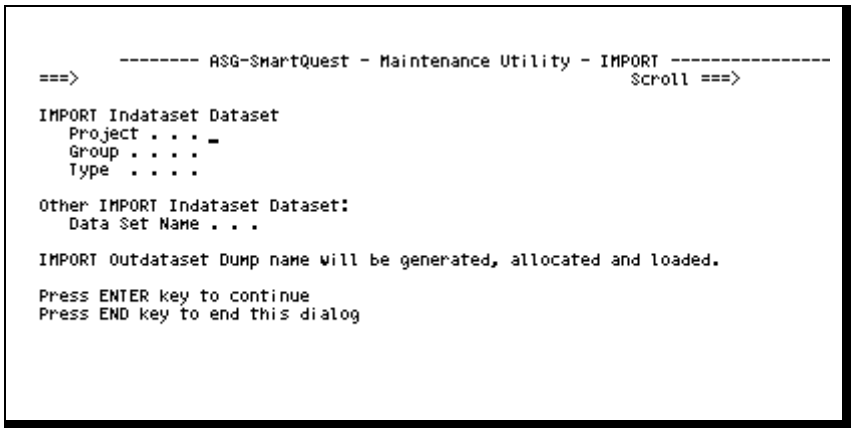
2 Type the name for the exported file. You can use the Export Outdataset Dataset field or the Other Export Outdataset Dataset field. A default dataset name is provided in the Other Export Outdataset Dataset field.

3 Press Enter to complete the export and return to the ASG-SmartQuest - Maintenance Utility screen. The Flag field is marked *EXP if the export was successful.

To import a dump index file

1 Type `IMPORT` on the command line and press Enter. The ASG-SmartQuest - Maintenance Utility - Import screen, shown in Figure 46, displays.

Figure 46 • ASG-SmartQuest - Maintenance Utility - Import Screen



2 Type the name of the sequential exported dump dataset to be imported. You can specify a standard ISPF library dataset name using the Project, Group, and Type fields, or you can enter any standard file name in the Data Set Name field. The dataset must be an unloaded dataset that was created using the Index Maintenance Utility's export function.

3 Press Enter to return to the ASG-SmartQuest - Maintenance Utility screen. The Flag field is marked *IMP if the import is successful.

4 Enabling SmartQuest

This chapter describes the JCL jobs and steps for customizing SmartQuest and contains these sections:

Step 1 - Authorized Module Copy Job for CICS STEPLIB (CICS Only)

Modify and run the job in member VISQJSU1 of the SmartQuest JCL library.

To modify this JCL

1. Change or replace the job card.
2. Verify all parameter values.
3. Change CICSLIB to an authorized CICS dataset.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.         ASG-SmartQuest                                  *
//*                                                                   *
//* MEMBER NAME: VISQJSU1                                             *
//*                                                                   *
//* DESCRIPTION: ASG-SmartQuest SetUp Job 1 will copy authorized      *
//*              modules for ASG-SmartQuest CICS to an authorized     *
//*              CICS library.                                        *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//*  1.  CHECK ALL PARAMETER VALUES BELOW.                            *
//*  2.  CHANGE CICSLIB TO THAT OF AN AUTHORIZED CICS DATASET.        *
//*                                                                   *
//*                                                                   *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//         SET  CICSLIB='CICS.AUTHLIB'
//AUTHCOPY EXEC PGM=IEBCOPY
//SYSPRINT DD   SYSOUT=*
//SYSUT3   DD   DSN=&&TEMP,UNIT=&SYSDA,DISP=(NEW,DELETE),
//         SPACE=(80,(60,45))
//IFILE    DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//OFILE    DD   DISP=SHR,DSN=&CICSLIB
//SYSIN    DD   *
 COPY INDD=((IFILE,R)),OUTDD=OFILE
```

```
 S M=(VICQCSVR,VICQDUMP,VISQMSGT,VICQCRCB)
 S M=(VICQDBLO,VISQMSG)
 S M=(ASGAPM,ASGPTBL)
 S M=(VICQCA41,VICQCA51,VICQCA52,VICQCA53,VICQCA61,VICQCA62)
 S M=(ASGSQIAS,ASGSQLNK)
/*
```

Note:

Maintenance tapes are applied to the SmartQuest LOADLIB library. If you apply maintenance, you must rerun this job to copy the modules to your authorized CICS STEPLIB library.

Step 2 - Defining SmartQuest Resources to CICS (CICS Only)

Use the CICS member applicable to your version of CICS as input to the CICS utility DFHCSDUP.

The CICS resource definition members define SmartQuest resources to CICS. These members are provided in Appendix A, "CICS Definitions" on page 125 and are found in the JCL library:

Version	Member Name
CICS 4.1	VISQDC41
CICS 5.1 (Transaction Server for OS/390 Release 1.1)	VISQDC51
CICS 5.2 (Transaction Server for OS/390 Release 1.2)	VISQDC52
CICS 5.3 (Transaction Server for OS/390 Release 1.3)	VISQDC53
CICS 6.1 (Transaction Server for OS/390 Release 2.1)	VISQDC61
CICS 6.2 (Transaction Server for OS/390 Release 2.2)	VISQDC62

To use any of the information in these members, make these modifications

1. The file definitions include a value for DSNAME. For the dataset names specified, change the high-level qualifiers to the one that you have used for your SmartQuest datasets.

2. If you are not using an alternate source file, delete the entry for HSSOURC1.

3 Consider adding the SmartQuest resource group to a list that is installed automatically at CICS startup. If you do not, remember to install the resource group each time before starting SmartQuest. Adding the resource group is essential if you intend to use the PLT to initialize SmartQuest.

Note:

The default STRINGS setting for the SmartQuest files is level 3. ASG recommends you increase this limit to avoid contention and long waits for these resources.

Mapsets

File	Description
VICQMAP	Maintenance and diagnostics BMS maps

Files

File	Description
HSCODES	CICS and DL/1 abend code description file
HSHELP	Online help text
HSPROFIL	Configuration profile file
HSUPROFL	Customization and user profile file
MVCODES	Abend code description file
MVCODES1	IBM help text for system abend codes

Transactions

File	Description
IQDS	Dump viewer
IQMT	Core display facility
IQST	SmartQuest initialization and termination
IQTS	IVP test transaction

Programs

File	Description
DFHTR410	CICS 4.1 trace formatting routines
DFHTR510	CICS 5.1 trace formatting routines
DFHTR520	CICS 5.2 trace formatting routines
DFHTR530	CICS 5.3 trace formatting routines
DFHTR610	CICS 6.1 trace formatting routines
DFHTR620	CICS 6.2 trace formatting routines
VICQC3MD	CICS/ESA functions
VICQMN41	Main dump capture program (CICS 4.1 version)
VICQMN51	Main dump capture program (CICS 5.1 version)
VICQMN52	Main dump capture program (CICS 5.2 version)
VICQMN53	Main dump capture program (CICS 5.3 version)
VICQMN61	Main dump capture program (CICS 6.1 version)
VICQMN62	Main dump capture program (CICS 6.2 version)
VICQCRSM	Program invoked to resume suspended tasks
VICQCSTR	Start up/shutdown program
VICQCX41	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 4.1)
VICQCX51	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 5.1)
VICQCX52	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 5.2)
VICQCX53	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 5.3)
VICQCX61	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 6.1)
VICQCX62	XPCABND,XPCFTCH,XEIIN,XDUREQ exit (CICS 6.2)
VICQMCTM	User customization module

File	Description
VICQMUPN	Displays Abend Notification screen
VICQSASM	IVP sample Assembler program
VICQSCOB	IVP sample COBOL program
VICQSPLI	IVP sample PL/I program
VICQUDSN	Obtains DSNAME of SmartQuest load module for dump print job submission JCL
VICQVCSF	CICS dump viewer program
VICQVNTF	TSO notify program

The DFHCSDUP utility generates these messages:

`DFH5214W` *`xxxxx`* `is an obsolete keyword. It is ignored.`
: Specifies that the keyword *`xxxxx`* (for example, TCLASS, INDOUBT) is not valid. This message is generated from the DFHCSDUP utility. You can eliminate these warning messages by specifying `PARM=COMPAT` for the utility (`PARM=NOCOMPAT` is the default).

`DFH5510W Program names beginning with DFH are reserved and may be redefined by CICS.`
: Informational message generated when SmartQuest replaces the CICS trace formatting routine.

Step 3 - Modifying CICS JCL (CICS Only)

In your CICS JCL, add the SmartQuest load library, off-loaded from the tape, to the DFHRPL concatenation.

Step 4 - Modifying CICS PLT (CICS Only)

If you want to start the SmartQuest abend trapping mechanism automatically when your CICS starts up, add this entry to your CICS startup PLT. You should add the entry after the first DFHDELIM to ensure that it is run during the third stage of initialization.

```
DFHPLT TYPE=ENTRY,PROGRAM=VICQCSTR
```

Add the same entry to your shutdown PLT before the first DFHDELIM to ensure an orderly termination of SmartQuest when CICS is shut down.

This step is optional. If you choose to start the abend trapping mechanism manually, use the IQST transaction. See "Starting SmartQuest" on page 105 for more information.

Step 5 - Authorized Module Copy Job for MVS LINKLIST (MVS Only)

Add the SmartQuest LINKLIB to your LNKLST*nn* member of SYS1.PARMLIB. Refresh or rebuild the LNKLST to access the new SmartQuest modules through the LLA services.

In addition, you must APF authorize the SmartQuest LINKLIB. Modify your SYS1.PARMLIB IEAAPF*nn* member and schedule an IPL or dynamically add the library to your list of APF authorized libraries using the PROG*nn* member and SETPROG command.

Use the VISQJSU2 member to copy the authorized modules for SmartQuest from the ASG LOADLIB to your authorized library.

To modify the VISQJSU2 JCL

1. Change or replace the job card.
2. Change the high-level and mid-level qualifiers to the ones you have chosen for this installation.
3. Change *?AUTHLIB* to the dataset name of an authorized LINKLIST dataset.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST FOR MVS                      *
//*                                                                   *
//* MEMBER NAME: VISQJSU2                                             *
//*                                                                   *
//* DESCRIPTION: ASG-SmartQuest SetUp Job 2 for:                      *
//*              THIS JOB COPIES THE AUTHORIZED MODULES FOR           *
//*              ASG-SMARTQUEST MVS TO AN AUTHORIZED LINKLIST         *
//*              LIBRARY.                                             *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//*  1.  CHANGE AUTHLIB PARAMETER                                     *
//*      TO A DATASET NAME OF AN AUTHORIZED LINKLIST DATASET          *
//*                                                                   *
//*********************************************************************
```

```
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//         SET  AUTHLIB='SYS.AUTHLIB'
//AUTHCOPY EXEC PGM=IEBCOPY
//SYSPRINT DD   SYSOUT=*
//SYSUT3   DD   DSN=&&TEMP,UNIT=&SYSDA,DISP=(NEW,DELETE),
//         SPACE=(80,(60,45))
//IFILE    DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//OFILE    DD   DISP=SHR,DSN=&AUTHLIB
//SYSIN    DD   *
 COPY INDD=((IFILE,R)),OUTDD=OFILE
 S M=(VICQDUMP,VISQCLTC,VISQCRCB,VISQMCTM,VICQDBLO,VIAPAKRA)
 S M=(VISQCDTC,VISQCPTC,VISQCSTR,VISQUBLW,VISQUATD,VISQSNAP)
 S M=(ASGAPM,ASGPTBL,VISQEXIT,ASGSQIAS,ASGSQLNK)
```

Note:

Maintenance tapes are applied to the SmartQuest LOADLIB library. If you apply maintenance, you must rerun this job to copy the modules to your authorized library.

Step 6 - Relinking IBMBLIIA and IBMBKMRA (MVS PL/I Users Only)

If you are using PL/I with the PL/I 2.3.0 run-time libraries (not with the LE run-time libraries) and you have the STAE or SPIE PL/I run-time options active, complete this step if you want SmartQuest to capture abends in your PL/I programs.

Note:

If you are using the PL/I STAE or SPIE run time options, you must complete the customization of error conditions before starting SmartQuest. See "PL/I Condition Actions" on page 43 for more information.

- The IBMBLIIA and IBMBKMRA members can be found in your PL/I SIBMLINK library.
- Determine whether you want the replacement IBMBLIIA and IBMBKMRA modules to reside in the SmartQuest LOADLIB or the SmartQuest LINKLIB before customizing the JCL found in member VISQJSU3.
- Run your modified job found in member VISQJSU3. This job creates a new version of IBMBLIIA with SmartQuest PL/I error handling routines replacing those supplied with PL/I and a new version of IBMBKMRA with an intercept routing for PLIDUMP calls. After successfully running the job, refresh IBMBLIIA and IBMBKMRA if you chose to install these members in the SmartQuest LINKLIB. If you installed them into the SmartQuest LOADLIB, you will need to include that library in the STEPLIB concatenation for your PL/I application jobs.

After running this job, you receive several IEW3413I messages from the first step warning you of duplicate sections that have not been merged. This is expected and can be ignored.

To modify theVISQJSU3 JCL

1. Complete or replace the job card.

2. Check the parameter values.

3. Decide whether you want the new modules to reside in the SmartQuest LOADLIB or the SmartQuest LINKLIB, and then replace *?TOLIB* with LOADLIB or LINKLIB, respectively.

   - If you decide to use LINKLIB, you may need to refresh these members after running this job. Do this using this MVS console command:

     ```
     F LLA,REFRESH
     ```

   - Make sure the SmartQuest LINKLIB is searched ahead of the IBM.SIBMLINK library when running your PL/1 programs, and also ahead of any other vendor's library which contains replacements for the module IBMBLIIA and IBMBKMRA.

   - If you decide to use LOADLIB, make sure the SmartQuest LOADLIB is placed in the JOBLIB or STEPLIB concatenation when running your PL/1 programs, and also that it is searched ahead of IBM.SIBMLINK and also ahead of any other vendor's library which contains replacements for the module IBMBLIIA and IBMBKMRA.

4. ASG recommends that LOADLIB be used for initially testing the SmartQuest installation. Once PL/1 support has been customized for your location and proven to work correctly, IBMBLIIA and IBMBKMRA may be copied to the SmartQuest LINKLIB, or alternatively, this job may be rerun with the SYSLMOD DD statements pointed to the SmartQuest LINKLIB.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.         ASG-SmartQuest                                  *
//*                                                                   *
//* MEMBER NAME: VISQJSU3                                             *
//*                                                                   *
//* DESCRIPTION: ASG-SmartQuest SetUp Job 3 for:                      *
//*              RE-LINK IBMBLIIA TO ALLOW FOR ABEND INTERCEPT        *
//*              FOR PL/1 PROGRAMS USING STAE/SPIE RUN TIME OPTIONS.  *
//*              RE-LINK IBMBKMRA TO ALLOW FOR 3001 USER ABENDS       *
//*              AFTER PLIDUMP CALLS.                                 *
//*                                                                   *
```

```
//* **WARNING** THE PL/1 MODULES IBMBLIIA AND IBMBKMRA CAN BE FOUND    *
//*             on the IBM.SIBMLINK load library.                      *
//*                                                                    *
//*             If you are replacing another fault diagnosis product   *
//*             be sure you reference  the original IBM modules.       *
//*                                                                    *
//*             This job stream can be re-run any number of times.     *
//*                                                                    *
//*                                                                    *
//* INSTRUCTIONS:                                                      *
//*                                                                    *
//* 1.  CHECK PARAMETER VALUES IN STATEMENTS BELOW                     *
//* 2.  TOLIB will be either LOADLIB or LINKLIB if you want the new    *
//*     modules to reside in the ASG-SmartQuest LOADLIB or the         *
//*     ASG-SmartQuest LINKLIB, respectively.                          *
//* 3.  If you use LINKLIB:                                            *
//*     a.  you may need to refresh these members after running        *
//*         this job.  This is accomplished by the MVS console         *
//*         command, F LLA,REFRESH                                     *
//*     b.  you must make sure the ASG-SmartQuest LINKLIB is searched  *
//*         ahead of the IBM.SIBMLINK library when running your        *
//*         PL/1 programs, and also ahead of any other vendor's        *
//*         library which contains replacements for the modules        *
//*         IBMBLIIA and IBMBKMRA.                                     *
//* 4.  If you use LOADLIB:                                            *
//*         you must make sure the ASG-SmartQuest LOADLIB is placed in *
//*         the JOBLIB or STEPLIB concatenation when running your      *
//*         PL/1 programs, and also that it is searched ahead of       *
//*         IBM.SIBMLINK and also ahead of any other vendor's library  *
//*         which contains replacements for the modules                *
//*         IBMBLIIA and IBMBKMRA.                                     *
//* 5.  ASG recommends that LOADLIB be used for initially              *
//*     testing the ASG-SmartQuest installation. Once PL/1 support     *
//*     has been customized for your location and proven to work       *
//*     correctly, IBMBLIIA and IBMBKMRA may be copied to the          *
//*     ASG-SmartQuest LINKLIB or, alternatively this job may be rerun *
//*     with the SYSLMOD DD statements pointed to the ASG-SmartQuest   *
//*     LINKLIB.                                                       *
//*                                                                    *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//         SET  TOLIB='SYS.SHARED.LOADLIB' DESTINATION LIBRARY
//         SET  PLILOAD='IBM.SIBMLINK'     PL/I SIBMLINK LIBRARY
//*
//*******************************************************************
//* Step 1 Copy IBMBLIIA to ASG-SmartQuest Load Library and rename
//*******************************************************************
//COPY1    EXEC PGM=IEBCOPY,REGION=4096K
//IN       DD   DISP=SHR,DSN=&PLILOAD
//OUT      DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSUT3   DD   UNIT=&SYSDA,SPACE=(CYL,(1,1))
//SYSUT4   DD   UNIT=&SYSDA,SPACE=(CYL,(1,1))
//SYSPRINT DD   SYSOUT=&SYSOUT
//SYSIN    DD   *
COPYOPER COPYMOD INDD=((IN,R)),OUTDD=OUT
 SELECT MEMBER=((IBMBLIIA,IBMBLIIX,R))
/*
//*
```

```
//*********************************************************************
//* Step 2 Re-link IBMBLIIA into ASG-SmartQuest Load Library or Link Lib
//*********************************************************************
//LKED1    EXEC PGM=HEWL,PARM='MAP,XREF,RENT,REUS'
//SYSLIB   DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//PLILIB   DD   DISP=SHR,DSN=&PLILOAD
//SYSPRINT DD   SYSOUT=&SYSOUT
//SYSLIN   DD   DDNAME=SYSIN
//SYSLMOD  DD   DISP=SHR,DSN=&TOLIB
//SYSUT1   DD   UNIT=&SYSDA,SPACE=(TRK,(10,10))
//SYSIN    DD   *
 MODE AMODE(ANY),RMODE(24)
 REPLACE IBMBERR1
 INCLUDE SYSLIB(IBMBLIIX)
 INCLUDE SYSLIB(VISQERR1)
 CHANGE IBMBERR1(IBMBERRX)
 CHANGE IBMBERRA(IBMBERXA)
 CHANGE IBMBERRB(IBMBERXB)
 INCLUDE SYSLIB(IBMBLIIX)
 ENTRY IBMBLIIA
 NAME IBMBLIIA(R)
/*
//*
//*********************************************************************
//* Step 3 Re-link IBMBKMRA into ASG-SmartQuest Load Library or Link Lib
//*********************************************************************
//LKED2    EXEC PGM=HEWL,PARM='MAP,XREF,RENT,REUS'
//SYSLIB   DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//PLILIB   DD   DISP=SHR,DSN=&PLILOAD
//SYSPRINT DD   SYSOUT=&SYSOUT
//SYSLIN   DD   DDNAME=SYSIN
//SYSLMOD  DD   DISP=SHR,DSN=&TOLIB
//SYSUT1   DD   UNIT=&SYSDA,SPACE=(TRK,(10,10))
//SYSIN    DD   *
 MODE AMODE(ANY),RMODE(24)
 INCLUDE SYSLIB(VISQCIB1)
 CHANGE IBMBKMR1(IBMBKMRX)
 INCLUDE PLILIB(IBMBKMRA)
 ENTRY IBMBKMR1
 NAME IBMBKMRA(R)
/*
```

Step 7 - Enabling the LE Abend Termination Exit (MVS Only)

If your programs are running with the LE run-time libraries and using the run-time option TRAP(ON), complete this step if you want SmartQuest to handle any abends.

These are the two alternatives for installing the SmartQuest LE exit:

- Non-SMP install
- SMP install

Non-SMP Install

This alternative does not use SMP. It performs a manual assembly and link using the VISQJSU4 JCL member.

To modify the VISQJSU4 JCL member

1. Complete or replace the job card.
2. Check the parameter values and ensure they conform to your installation standards.
3. Decide whether you want the new modules to reside in the SmartQuest LOADLIB or the SmartQuest LINKLIB, and then replace *?TOLIB* with LOADLIB or LINKLIB, respectively.
4. If you use LINKLIB, complete these steps:
   a. Refresh these members after running this job, if necessary. This is accomplished using this MVS console command:

      ```
      F LLA,REFRESH
      ```

   b. Make sure the SmartQuest LINKLIB is searched ahead of the normal LE library when running your LE programs.
5. If you decide to use LOADLIB, make sure the SmartQuest LOADLIB is placed in the JOBLIB or STEPLIB concatenation when running your LE programs, and also that it is searched ahead of the normal LE library.
6. ASG recommends that LOADLIB be used for initially testing the SmartQuest installation. Once LE support has been customized for your location and proven to work correctly, this job may be rerun with the SYSLMOD DD statement changed to point to the SmartQuest LINKLIB.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.         ASG-SmartQuest                                  *
//*                                                                   *
//* MEMBER NAME: VISQJSU4                                             *
//*                                                                   *
//* DESCRIPTION: ASG-SmartQuest SetUp Job 4 for:                      *
//*              ASSEMBLE AND RE-LINK CEEEXTAN                        *
//*                                                                   *
//* **Warning** If your installation uses a CEEEXTAN that has been    *
//*             modified at your site or by other vendors, you        *
//*             may need to add those changes into the CEEEXTAN       *
//*             source provided with the ASG-SmartQuest for MVS       *
//*             product.                                              *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
```

```
//*                                                                    *
//* 1.  CHECK PARAMETER VALUES IN STATEMENTS BELOW                     *
//* 2.  TOLIB will be either LOADLIB or LINKLIB if you want the new    *
//*     modules to reside in the ASG-SmartQuest LOADLIB or the         *
//*     ASG-SmartQuest LINKLIB, respectively.                          *
//* 3.  If you use LINKLIB:                                            *
//*     a.  you may need to refresh these members after running        *
//*         this job.  This is accomplished by the MVS console         *
//*         command, F LLA,REFRESH                                     *
//*     b.  you must make sure the ASG-SmartQuest LINKLIB is searched  *
//*         ahead of the normal LE library when running your           *
//*         LE programs.                                               *
//* 4.  If you use LOADLIB:                                            *
//*         you must make sure the ASG-SmartQuest LOADLIB is placed in *
//*         the JOBLIB or STEPLIB concatenation when running your      *
//*         LE programs, and also that it is searched ahead of the     *
//*         normal LE library.                                         *
//* 5.  ASG recommends that LOADLIB be used for initially              *
//*     testing the ASG-SmartQuest installation.  Once LE support      *
//*     has been customized for your location and proven to work       *
//*     correctly, this job may be rerun with the SYSLMOD DD statement *
//*     changed to point to the ASG-SmartQuest LINKLIB.                *
//*                                                                    *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//         SET  SCRUNLIB='SYS1.SCEERUN'          SCREERUN LIBRARY
//         SET  SCMACLIB='CEE.SCEEMAC'           SCEEMAC LIBRARY
//         SET  TOLIB='SYS.SHARED.LOADLIB'       LOADLIB OR LINKLIB
//*
//*********************************************************************
//* Step 1 Assemble New Version of CEEEXTAN                           *
//*********************************************************************
//HLASM    EXEC PGM=ASMA90,REGION=2M,
// PARM=('NOOBJECT,DECK,XREF(SHORT),NOMXREF,TERM,USING(MAP)')
//SYSLIB   DD   DISP=SHR,DSN=&SCMACLIB
//         DD   DISP=SHR,DSN=SYS1.MACLIB
//SYSUT1   DD   DSN=&&SYSUT1,SPACE=(4096,(120,120),,,ROUND),
//             UNIT=&SYSDA,DCB=BUFNO=4
//SYSPRINT DD   SYSOUT=&SYSOUT
//SYSTERM  DD   SYSOUT=&SYSOUT
//SYSLIN   DD   DUMMY
//SYSPUNCH DD   DSN=&&OBJECT,SPACE=(3040,(40,40),,,ROUND),UNIT=&SYSDA,
//             DISP=(MOD,PASS),
//             DCB=(BLKSIZE=3040,LRECL=80,RECFM=FBS,BUFNO=4)
//SYSIN    DD   DISP=SHR,DSN=&ASG..&CENTER..CNTL(CEEEXIT)
//*********************************************************************
//* Step 2 Link New Version of CEEEXTAN                               *
//*********************************************************************
//LKED1    EXEC PGM=IEWBLINK,PARM='LIST,LET,XREF,RENT,REFR,NCAL',
//             COND=(5,LT,HLASM)
//SYSUT1   DD   DSN=&&SYSUT1,SPACE=(CYL,(2,1)),UNIT=&SYSDA,
//             DCB=BUFNO=1
//SYSPRINT DD   SYSOUT=&SYSOUT,DCB=(RECFM=FB,BLKSIZE=3509)
//SYSLMOD  DD   DISP=SHR,DSN=&TOLIB
//SYSLIN   DD   DSN=&&OBJECT,DISP=(OLD,DELETE)
//         DD   DDNAME=SYSIN
//SYSIN    DD   *
 NAME CEEEXTAN
/*
```

```
//*
//*********************************************************************
//* Step 3 Link New Version of LE Modules which contain CEEEXTAN      *
//*********************************************************************
//LKED2    EXEC PGM=IEWBLINK,PARM='LIST,LET,XREF,RENT,REFR,NCAL',
//             COND=(5,LT,HLASM)
//SYSUT1   DD   DSN=&&SYSUT1,SPACE=(CYL,(2,1)),UNIT=&SYSDA,
//             DCB=BUFNO=1
//SYSPRINT DD  SYSOUT=&SYSOUT,DCB=(RECFM=FB,BLKSIZE=3509)
//SYSLMOD  DD  DISP=SHR,DSN=&TOLIB
//SMPWRK3  DD  DISP=SHR,DSN=&TOLIB
//SYSLIN   DD  DDNAME=SYSIN
//SCEERUN  DD  DISP=SHR,DSN=&SCRUNLIB
//SYSIN    DD  *
 ORDER CEEBINIT
 ORDER CEECPYRT
 ENTRY CEEBINIT
 ALIAS CEEBLIBM
 INCLUDE SMPWRK3(CEEEXTAN)
 INCLUDE SCEERUN(CEEBINIT)
 NAME CEEBINIT(R)
 ORDER CEEBINIT
 ORDER CEECPYRT
 ENTRY CEEBINIT
 INCLUDE SMPWRK3(CEEEXTAN)
 INCLUDE SCEERUN(CEEBINSS)
 NAME CEEBINSS(R)
 ORDER CEEBPICI
 ORDER CEECPYRT
 ENTRY CEEBPICI
 INCLUDE SMPWRK3(CEEEXTAN)
 INCLUDE SCEERUN(CEEBPICI)
 NAME CEEBPICI(R)
 ORDER CEEPIPI
 ORDER CEECPYRT
 ENTRY CEEPIPI
 INCLUDE SMPWRK3(CEEEXTAN)
 INCLUDE SCEERUN(CEEPIPI)
 NAME CEEPIPI(R)
/*
```

SMP Install

To use the SMP procedures

1 Locate the member CEEEXTAN in the LE samples library (CEE.V*n*R*n*M*n*.SCEESAMP), and modify this member as shown in bold.

```
TITLE 'LE/370 Abnormal Termination User exit CSECT'
*/*****************************************************************/
*/*                                                               */
*/*    LICENSED MATERIALS - PROPERTY OF IBM                       */
*/*                                                               */
*/*    5688-198  (C) COPYRIGHT IBM CORP. 1994,  1995              */
*/*    ALL RIGHTS RESERVED.                                       */
*/*                                                               */
*/*                                                               */
*/*    US Government Users Restricted Rights - Use, duplication or*/
*/*    disclosure restricted by GSA ADP Schedule Contract with IBM*/
*/*    Corp.                                                      */
*/*                                                               */
*/*****************************************************************/
         CEEXAHD        ,User exit header
*
************************************************************
* To specify an abnormal termination exit, change the line
* where CEEXART is specified:
*   - change the XXXXXXXX to the name of the abnormal termination exit
*   - change the '*' in column 1 to a blank
************************************************************
*        CEEXART  TERMXIT=XXXXXXXX
         CEEXART  TERMXIT=VISQCLTC  <----ADD THIS LINE----------
*
         CEEXAST        ,Terminate the list
```

2 Save the member and run the job CEEWDEXT, which can also be found in the LE samples library. Carefully read the comments from IBM before you submit the job. You may need to make some changes to the JCL job. This is a sample of the IBM-supplied JCL from the LE 1.5.0 samples library:

```
//CEEWDEXT JOB ,'PP5688-198',rest of job card.........
//*************************************************************
//*                                                           *
//*  IBM LANGUAGE ENVIRONMENT FOR MVS & VM                    *
//*                VERSION 1 RELEASE 5 MODIFICATION 0         *
//*                                                           *
//* SMP/E USERMOD TO REPLACE THE ABNORMAL TERMINATION EXIT    *
//* CSECT FOR NON-CICS                                        *
//*                                                           *
//*************************************************************
//*                                                           *
//*  LICENSED MATERIALS - PROPERTY OF IBM.                    *
//*                                                           *
//*  5688-198 (C) COPYRIGHT IBM CORP. 1993, 1995              *
//*  ALL RIGHTS RESERVED                                      *
//*                                                           *
//*  US GOVERNMENT USERS RESTRICTED RIGHTS - USE,             *
//*  DUPLICATION OR DISCLOSURE RESTRICTED BY GSA              *
//*  ADP SCHEDULE CONTRACT WITH IBM CORP.                     *
```

```
//*                                                             *
//*************************************************************
//*       IF YOU HAVE NOT DEFINED AN ALIAS IN YOUR MASTER       *
//*       CATALOG FOR THE HIGH-LEVEL QUALIFIER YOU ARE USING,   *
//*       REMOVE THE * FROM THE FOLLOWING//JOBCAT DD STATEMENT
//*       AND CHANGE USER.CATALOG IN THE JOBCAT DD STATEMENT    *
//*       TO THE NAME OF THE USER CATALOG YOU HAVE YOUR SMP/E   *
//*       DATA SETS CATALOGED IN.  IF YOU HAVE USED A DIFFERENT*
//*       USER CATALOG FOR YOUR TARGET AND DISTRIBUTION DATA    *
//*       SETS, YOU WILL NEED TO CONCATENATE IT TO THE JOBCAT.  *
//*************************************************************
//*JOBCAT   DD DSN=USER.CATALOG,DISP=SHR
//CEEXTAN EXEC PROC=CEEWPROC
//*************************************************************
//*       IF CEEWPROC IS NOT AVAILABLE IN A PROCLIB ACCESSIBLE *
//*        TO JES, YOU MAY INSERT IT IN THIS JOB BEFORE THE     *
//*        EXEC STATEMENT THAT CALLS IT.                        *
//*                                                             *
//*      USE THE CEEWPROC FROM MEMBER CEEWPROE OF YOUR INSTALL *
//*        DATA SET IF YOU ARE USING DD STATEMENTS TO ACCESS    *
//*        YOUR SMP/E, TARGET AND DISTRIBUTION DATA SETS.       *
//*                                                             *
//*      USE THE CEEWPROC FROM MEMBER CEEWPROD OF YOUR INSTALL *
//*        DATA SET IF YOU ARE USING DDDEF ENTRIES TO ACCESS    *
//*        YOUR SMP/E, TARGET AND DISTRIBUTION DATA SETS.       *
//*                                                             *
//*        MAKE ANY NECESSARY CHANGES IN THE PARAMETERS OF THE *
//*        PROC AND MAKE SURE YOU HAVE A '//    PEND'           *
//*        STATEMENT AT THE END OF THE PROC BEFORE RUNNING      *
//*        THIS JOB.  (REMOVE THE * FROM '//*   PEND'.)        *
//*                                                             *
//*        COPY MEMBER CEEEXTAN FROM CEE.V1R5M0.SCEESAMP INTO   *
//*        THIS JOB IN PLACE OF THE COMMENT LINES FOLLOWING     *
//*        THE ++ SRC STATEMENT BELOW.                          *
//*************************************************************
//SMPPTFIN  DD *
++ USERMOD(CEEWDE1) REWORK(1995230) .
++ VER (Z038) FMID(HMWL510) .
++ SRC ( CEEEXTAN ) DISTLIB (ACEESRC1).
************Copy your updated member CEEEXTAN here!!!!!!!!!!
/*
//SMPCNTL   DD *
   SET BDY(GLOBAL).
   RECEIVE S(CEEWDE1) LIST SYSMODS.
   SET BDY(CEETGT6).
   APPLY   S(CEEWDE1) ASSEM.
//
```

Step 8 - Setting Up the SmartQuest Started Task Procedure (MVS Only)

Note:

You must enter a name in the CONFIG=*xxxxxxxx* parameter. This name is the default file set (dump index file) that SmartQuest uses when a dump capture does not match specific job names listed on the File Set Assignment screen.You will also need to add this file set name on the File Set List screen. See "Dump Capture File Set Definitions (MVS)" on page 41 for more information.

Copy the sample procedure found in member VISQJSU5 of the SmartQuest JCL library to your SYS1.PROCLIB library or another PROCLIB library where it can be used by an operator START command. Copy this member to your SYS1.PROCLIB as MVSINQST.

This is a sample of the procedure:

```
//*********************************************************************
//* ASG, INC.         ASG-SmartQuest                                  *
//*                                                                   *
//* MEMBER NAME: VISQJSU5                                             *
//*                                                                   *
//* DESCRIPTION: THIS PROCEDURE SHOULD BE COPIED TO YOUR SYS1.PROCLIB  *
//*              UNDER THE NAME MVSINQST. THIS PROCEDURE IS USED WITH  *
//*              AN OPERATOR START COMMAND TO ACTIVATE THE             *
//*              ASG-SMARTQUEST FOR MVS BATCH ABEND TRAPPING           *
//*              MECHANISMS.                                           *
//*                                                                   *
//* NOTE:        THE MVS PORTION OF ASG-SMARTQUEST IS A SEPARATE       *
//*              PURCHASE OPTION AND REQUIRES A SPECIFIC MVS           *
//*              PASSWORD.                                             *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//* 1.  CHECK PARAMETER VALUES IN STATEMENTS BELOW                    *
//* 2.  CHANGE CONFIG=XXXXXXXX TO THE DESIRED FILE SET                *
//*                                                                   *
//*********************************************************************
//*
//VISQJSU5 PROC SYSOUT='*',ASG='ASG',CENTER='VIACENXX'
//*
//SMRTQUST EXEC PGM=VISQCSTR,PARM='CONFIG=XXXXXXXX',TIME=1440
//SYSABEND DD   SYSOUT=&SYSOUT
//MVPROFIL DD   DSN=&ASG..&CENTER..SQCONFIG,DISP=SHR
```

Step 9 - Modifying the Compile JCL Decks (MVS & CICS)

This step is optional. However, to make the best use of the product you should use the source-level support feature. This feature enables you to view the source for abending programs with the failing statement clearly highlighted while declared variables are shown with their address and contents at the time of abend. Many storage areas are automatically mapped with field names and others can be manually mapped. The product functions without source-level support. However, all storage areas are shown in standard dump format, (i.e., hexadecimal on the left and character on the right), and programs are shown disassembled.

The source-level support feature provides source displays for these languages:

Language	Member
COBOL 2 (Release 3 or later)	VISQJCC2
COBOL for MVS and VM (also referred to as COBOL/370)	VISQJCC3
PL/I release 2.3.0	VISQJPLI
PL/I for MVS and VM (also referred to as PL1/370)	VISQJ370
Assembler H	VISQJCAS
High-level Assembler	VISQJHLA

Note:

The ASG-supplied compile deck JCL members are only examples and are not executable as shipped. You can use these members for cutting and pasting your own JCL.

See the *ASG-SmartQuest User's Guide* for a full description of source-level support facilities.

To provide source-level support, a utility is supplied that processes your compiler output and builds the necessary information on the SmartQuest SOURCE file. This utility (program VICQUPST) is known as the post compile processor. To use it you must modify your compile and assembler JCL decks to add two steps after the compilation step. The JCL that you need to add, and other JCL changes required, differ depending on the language you are using. These changes are discussed in the next seven subsections.

Note:

See the *ASG-SmartQuest User's Guide* for a detailed description of customizing and running the post compile processor.

Modifying the COBOL 2 Compile Deck

The member VISQJCC2 of the SmartQuest JCL library contains a sample of the additional JCL job steps you need to add to your COBOL 2 compile deck. Complete these instructions, which can also be found in the member VISQJCC2.

To modify the COBOL 2 compile deck

1 Make these changes to the SYSPRINT DD card of your COBOL 2 compile step or copy this example from VISQJCC2 to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD  DSN=&&COBOUT,DISP=(NEW,PASS),UNIT=SYSDA,
//             SPACE=(TRK,(60,60),RLSE),
//             DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the ones that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the name specified on the COBOL PROGRAM ID statement is used as a default.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters *COBOL2_COMPILE_STEP_NAME* to reflect the name of your compile step in both the COND= parameters.

e Ensure that your COBOL compile step options include LIST, MAP, NONUMBER, and XREF(SHORT). Without these options the information necessary to provide source-level support is not available.

3 Add these two steps immediately after your COBOL 2 compile step.

```
//VICQUPST EXEC PGM=VICQUPST,
//            COND=(5,LT,COBOL2_COMPILE_STEP_NAME)
//STEPLIB DD DSN=ASG.VIACENXX.LOADLIB,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD DSN=&&TMPSRC,DISP=(NEW,PASS),
//         SPACE=(TRK,(60,5),RLSE),UNIT=SYSDA,
//         DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=COBOL2,LOADMOD=YOUR_LOAD_MODULE_NAME
```

```
/*
//* THE NEXT STEP IS ONLY RUN IF THE COMPILE ENDED RETURN CODE 5 OR
//* HIGHER.
//PRINT    EXEC PGM=IEBGENER,
//            COND=(5,GE,COBOL2_COMPILE_STEP_NAME)
//SYSUT1   DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//SYSUT2   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSIN    DD DUMMY
```

Modifying the COBOL/370 Compile Deck

The member VISQJCC3 of the SmartQuest JCL library contains a sample of the additional JCL job steps you need to add to your COBOL/370 compile deck. Complete these instructions, which can also be found in the member VISQJCC3.

To modify the COBOL/370 compile deck

1 Make these changes to the SYSPRINT DD card of your COBOL/370 compile step or copy this example from VISQJCC3 to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD  DSN=&&COBOUT,DISP=(NEW,PASS),UNIT=SYSDA,
//             SPACE=(TRK,(60,60),RLSE),
//             DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the one that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the name specified on the COBOL PROGRAM ID statement is used as a default.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters *COB370_COMPILE_STEP_NAME* to reflect the name of your compile step in both the COND= parameters.

e Ensure that your COBOL compile options include LIST, MAP, NONUMBER, and XREF**.** If these options are not specified, the information needed to provide source support is not available.

3 Add these two steps immediately after your COBOL/370 compile step.

```
//VICQUPST EXEC PGM=VICQUPST,
//            COND=(5,LT,COB370_COMPILE_STEP_NAME)
//STEPLIB DD DSN=ASG.VIACENXX.LOADLIB,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
```

```
//SYSUDUMP DD SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD DSN=&&TMPSRC,DISP=(NEW,PASS),
//         SPACE=(TRK,(60,5),RLSE),UNIT=SYSDA,
//         DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=COBOL370,LOADMOD=YOUR_LOAD_MODULE_NAME
/*
//* THE NEXT STEP IS ONLY RUN IF THE COMPILE ENDED RETURN CODE 5 OR
//* HIGHER.
//PRINT    EXEC PGM=IEBGENER,
//            COND=(5,GE,COB370_COMPILE_STEP_NAME)
//SYSUT1   DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//SYSUT2   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSIN    DD DUMMY
```

Modifying the PL/I 2.3.0 Compile Deck

The member VISQJPLI of the SmartQuest JCL library contains a sample of the JCL job steps you need to add to your PL/I 2.3.0 compile deck. Complete these instructions, which can also be found in the member VISQJPLI.

To modify the PL/I compile deck

1 Make these changes to the SYSPRINT DD card of your PL/I compile step or copy this example from VISQJPLI to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD  DSN=&&PLOUT,DISP=(NEW,PASS),
//         UNIT=SYSDA,SPACE=(TRK,(60,60),RLSE),
//          DCB=(BLKSIZE=129,LRECL=125,RECFM=VBA)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the ones that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the name of the first PL/I procedure is used as a default name.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters in *YOUR_PLI_COMPILE_STEP_NAME* to reflect the name of your compile step in both the COND= parameters.

e Ensure that your PL/I compile options include AG, A(F), X(F), MAP, LIST, OBJECT, NEST, and NOMARGINI or MARGINI(' '). The provision of PL/I online source support may fail or have unpredictable errors if these options are not specified.

3 Add these two steps immediately after your PL/I compile step.

```
//VICQUPST EXEC PGM=VICQUPST,
//         COND=(9,LT,YOUR_PLI_COMPILE_STEP_NAME)
//STEPLIB  DD   DISP=SHR,DSN=ASG.VIACENXX.LOADLIB
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&PLOUT,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD DSN=&&TMPSRC,DISP=(NEW,PASS),
//          SPACE=(TRK,(50,5),RLSE),UNIT=SYSDA,
//          DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=PLI,LOADMOD=YOUR_PLI_LOAD_MODULE
/*
//* THE NEXT STEP IS ONLY RUN IF THE COMPILE ENDED RETURN CODE 9 OR
//* HIGHER.
//PRINT   EXEC PGM=IEBGENER,
//         COND=(9,GE,YOUR_PLI_COMPILE_STEP_NAME)
//SYSIN    DD   DUMMY
//SYSPRINT DD   SYSOUT=*
//SYSUT1   DD   DSN=&&PLOUT,DISP=(OLD,DELETE)
//SYSUT2   DD   SYSOUT=*
```

Modifying the PL1/370 Compile Deck

The member VISQJ370 of the SmartQuest JCL library contains a sample of the additional JCL job steps you need to add to your PL1/370 compile deck. Complete these instructions, which can also be found in the member VISQJ370.

To modify the PLI/370 compile deck

1 Make these changes to the SYSPRINT DD card of your PL1/370 compile step or copy this example from VISQJ370 to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD  DSN=&&PLOUT,DISP=(NEW,PASS),
//          UNIT=SYSDA,SPACE=(TRK,(60,60),RLSE),
//          DCB=(BLKSIZE=129,LRECL=125,RECFM=VBA)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the ones that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the first PL/I procedure name is used as a default.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters *YOUR_PLI_COMPILE_STEP_NAME* to reflect the name of your compile step in both the COND= parameters.

e Ensure that your PL/I compile options include AG, A(F), X(F), LIST, MAP, OBJECT, NEST, and NOMARGINI or MARGINI(' '). Incorrect options prevent the successful provision of PL/I source-level support.

3 Add these two steps immediately after your PLI/370 compile step.

```
//VICQUPST EXEC PGM=VICQUPST,
//         COND=(9,LT,YOUR_PLI_COMPILE_STEP_NAME)
//STEPLIB  DD   DISP=SHR,DSN=ASG.VIACENXX.LOADLIB
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&PLOUT,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD DSN=&&TMPSRC,DISP=(NEW,PASS),
//          SPACE=(TRK,(50,5),RLSE),UNIT=SYSDA,
//          DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=PLI370,LOADMOD=YOUR_PLI_LOAD_MODULE
/*
//* THE NEXT STEP IS ONLY RUN IF THE COMPILE ENDED RETURN CODE 9 OR
//* HIGHER.
//PRINT   EXEC PGM=IEBGENER,
//         COND=(9,GE,YOUR_PLI_COMPILE_STEP_NAME)
//SYSIN    DD   DUMMY
//SYSPRINT DD   SYSOUT=*
//SYSUT1   DD   DSN=&&PLOUT,DISP=(OLD,DELETE)
//SYSUT2   DD   SYSOUT=*
```

Modifying Your Assembler H Deck

The member VISQJCAS of the SmartQuest JCL library contains a sample of the additional JCL job steps you need to add to your Assembler H deck. Complete these instructions, which can also be found in the member VISQJCAS.

To modify the Assembler H deck

1 Make these changes to the SYSPRINT DD card of your Assembler H step or copy this example from VISQJCAS to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD DSN=&&ASMLIST,DISP=(NEW,PASS),
//            UNIT=SYSDA,SPACE=(TRK,(60,60),RLSE),
//            DCB=(BLKSIZE=1210,LRECL=121,RECFM=FB)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the ones that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the name of the first CSECT is used as a default.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters *YOUR_ASSEMBLY_COMPILE_STEP_NAME* to reflect the name of your assembly step in both the COND= parameters.

e Ensure that your assembly step includes the options LIST and ESD. If these options are omitted, source support is not provided.

3 Add these two steps immediately after your Assembler H step.

```
//VICQUPST EXEC PGM=VICQUPST,
//         COND=(5,LT,YOUR_ASSEMBLY_STEP_NAME)
//STEPLIB  DD  DSN=ASG.VIACENXX.LOADLIB,DISP=SHR
//SYSABEND DD  SYSOUT=*
//SYSUDUMP DD  SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&ASMLIST,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD  DSN=&&TMPSRC,DISP=(NEW,PASS),
//         SPACE=(TRK,(60,5),RLSE),UNIT=SYSDA,
//         DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=ASMH,LOADMOD=YOUR_LOAD_MODULE_NAME
/*
//* THE NEXT STEP IS ONLY RUN IF THE ASSEMBLY ENDED RETURN CODE 5 OR
//* HIGHER.
//PRINT    EXEC PGM=IEBGENER,
//         COND=(5,GE,YOUR_ASSEMBLY_STEP_NAME)
//SYSUT1   DD DSN=&&ASMLIST,DISP=(OLD,DELETE)
//SYSUT2   DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//SYSPRINT DD SYSOUT=*
//SYSIN    DD DUMMY
```

Modifying Your High-level Assembly Deck

The member VISQJHLA of the SmartQuest JCL library contains a sample of the additional JCL job steps you need to add to your High-level Assembly deck. Complete these instructions, which can also be found in the member VISQJHLA.

To modify the High-level Assembly deck

1 Make these changes to the SYSPRINT DD card of your Assembler H step or copy this example from VISQJHLA to your compile deck. Make sure the UNIT= parameter is valid for your installation and change it if necessary.

```
//SYSPRINT DD DSN=&&ASMLIST,DISP=(NEW,PASS),
//            UNIT=SYSDA,SPACE=(TRK,(60,60),RLSE),
//            DCB=(BLKSIZE=1210,LRECL=121,RECFM=FB)
```

2 Make any of these changes that may be necessary.

a Change the high-level qualifiers to the ones that you have chosen for the product.

b Specify your final load module name in the LOADMOD= parameter of the IPARM DD card. This parameter is optional. If you omit it, the first CSECT name is used as a default.

c If your JCL job is a procedure, make the IPARM card specify DD DUMMY and use an override card to specify the correct data.

d Change the characters *YOUR_ASSEMBLY_COMPILE_STEP_NAME* to reflect the name of your assembly step in both the COND= parameters.

e Ensure that your assembly step has the options LIST and ESD. If these options are omitted, source support is not provided.

3 Add these two steps immediately after your High-level Assembly step

```
//VICQUPST EXEC PGM=VICQUPST,
//         COND=(5,LT,YOUR_ASSEMBLY_STEP_NAME)
//STEPLIB  DD  DSN=ASG.VIACENXX.LOADLIB,DISP=SHR
//SYSABEND DD  SYSOUT=*
//SYSUDUMP DD  SYSOUT=*
//HSSOURCE DD DSN=ASG.VIACENXX.SQSOURCE,DISP=SHR
//ISOURCE  DD DSN=&&ASMLIST,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD  DSN=&&TMPSRC,DISP=(NEW,PASS),
//         SPACE=(TRK,(60,5),RLSE),UNIT=SYSDA,
//         DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=HLASM,LOADMOD=YOUR_LOAD_MODULE_NAME
/*
//* THE NEXT STEP IS ONLY RUN IF THE ASSEMBLY ENDED RETURN CODE 5 OR
```

```
//* HIGHER.
//PRINT    EXEC PGM=IEBGENER,
//         COND=(5,GE,YOUR_ASSEMBLY_STEP_NAME)
//SYSUT1   DD DSN=&&ASMLIST,DISP=(OLD,DELETE)
//SYSUT2   DD SYSOUT=*,DCB=(BLKSIZE=1210,LRECL=121,RECFM=FBA)
//SYSPRINT DD SYSOUT=*
//SYSIN    DD DUMMY
```

Step 10 - Customizing the CICS Dump Options (CICS/ESA Only)

You should modify your CICS/ESA dump setup to ensure that the product captures the necessary transaction dumps and to prevent CICS producing unwanted system dumps. Examine your own dump configuration and set the TRANDUMP option. Also set the dump limit to 999 for all transaction abend codes that you want SmartQuest to process.

Note:

If you are using CICS 4.1, TRANDUMP exists as an option within TRDUMPCODE.

Step 11 - Using SmartQuest in MRO Environment (CICS)

You can use SmartQuest in an MRO environment. Add the load library to the DFHRPL of all your AOR regions. All other transactions should be defined in the TOR with their remote counterparts defined in the AOR.

Step 12 - Setting Up the TSO Dump Viewer Interfaces (MVS & CICS)

To use the SmartQuest TSO interface, it is not necessary to modify your TSO logon procedure JCL. However, you must add the SmartQuest SYSPROC library to the SYSEXEC or SYSPROC DD concatenation of your TSO logon procedure or copy the members VISQVIEW and VISQMNTM from the SmartQuest SYSPROC library to a library that is already in your SYSEXEC or SYSPROC DD concatenation.

Note:

If you will be viewing CICS dumps using the TSO viewer, make sure the DFHTR*xxx* (where *xxx* is your current release of CICS) program has access to the TSO LOADLIB.

You must also add an entry to your TSO/ISPF primary option menu or to any other TSO/ISPF menu to which your SmartQuest users have access.

To set up the TSO interface

1. Add this line, with any appropriate attribute characters included, to the display portion of the menu, that is, the)BODY section of the screen definition.

   ```
   SQ   -   ASG-SmartQuest
   ```

2. Add this line, with any appropriate attribute characters included, to the display portion of the menu, that is, the)BODY section of the screen definition to pre-set the dump file and source file names for a user.

   ```
   SQ,'CMD(%SMRTQUST)'
   ```

   Or

   ```
   SQ,'CMD(%VISQVSEL)''ASG,VIACENxx,VIACENxx'
   ```

3. Notify users about how to access SmartQuest viewers.

Note:
You can replace the selection characters SQ with the characters of your choice.

This is the fully-specified method for invoking the viewer:

```
EX 'ASG.VIACENxx.CLIST(SMRTQUST)'
```

Or

```
EX 'ASG.VIACENxx.CLIST(VISQVSEL)''ASG,VIACENxx,VIACENxx'
```

To set the default values for the SmartQuest Viewer

1. Access the ASG.VIACEN*xx*.CLIST(VISQVDFT) member to set the default values for ISPF variables and dataset names.

2 Set appropriate values for ESW AKR support.

```
/* REXX
*//*****************************************************************/
/*                                                                 */
/*                            ASG-SmartQuest (TM)                  */
/*                                                                 */
/*-----------------------------------------------------------------*
/
/*                                                                 */
/*                                                                 */
/*           ******************    ***********************************   */
/*         *********************  ************************************   */
/*         *****           *****  ******              *****                */
/*        *****           *****  ******              *****                */
/*       *********************  *****************   *****     *******      */
/*      *********************   *****************  *****     ********      */
/*      *****           *****              ******  *****          ***      */
/*     *****           *****              ******  *****          ***       */
/*    *****          ************************  ******************         */
/*   *****          ************************    ******************         */
/*                                                                 */
/*                                                                 */
/*       Copyright Allen Systems Group, Inc., an unpublished work.         */
/* A proprietary product of ASG, Inc. Use restricted to authorized licensees.*/
/*        Visit the ASG Support Web Site at support.asg.com                */
/*                                                                 */
/*                                                                 */
/*-----------------------------------------------------------------*/
/*                                                                 */
/*       Member:  VISQVDFT                                         */
/*  Description:  This REXX exec is used to set default values for various   */
/*                ISPF variables and dataset names.                */
/* Instructions:  Review each of the variable assignments below and set to   */
/*                appropriate values for your site.                    the  */
/*                                                                 */
/*******************************************************************/

 signal on syntax
 address ISPEXEC
 "VGET (VIASOFT CENTER CICS) SHARED"

 "CONTROL ERRORS RETURN"

/*******************************************************************/
/*                                                                 */
/* Setup product ISPF environment                                  */
/*                                                                 */
/*****************************************************             */
                                                      /*           */
 VISQPROC=viasoft"."center".CLIST"                     /*           */
 VISQPLIB=viasoft"."center".ISPPLIB"                   /*           */
 VISQSLIB=viasoft"."center".ISPSLIB"                   /*           */
 VISQTLIB=viasoft"."center".ISPPLIB"                   /*           */
 VISQMLIB=viasoft"."center".ISPMLIB"                   /*           */
 VISQLLIB=viasoft"."center".LOADLIB"                   /*           */
                                                       /*           */
 "VPUT (VISQPROC, VISQPLIB, VISQSLIB) PROFILE"         /* Store variables   */
 "VPUT (VISQTLIB, VISQMLIB, VISQLLIB) PROFILE"         /* in users profile. */
                                                       /*           */
/*****************************************************             */
/*                                                                 */
```

```
/*********************************************************************/


/*********************************************************************/
/*                                                                   */
/* Setup product libraries                                           */
/*                                                                   */
/*****************************************************               */
                                                      /*             */
 VISQLOAD=viasoft"."center".LOADLIB"                  /* Load Library     */
 VISQHELP=viasoft"."center".SQVIEWHP"                 /* Viewer Help File  */
 VISQCABD=viasoft"."center".SQCICAHP"                 /* CICS abend codes  */
 VISQMABD=viasoft"."center".SQMABHLP"                 /* MVS abend codes   */
 VISQMMAC=viasoft"."center".SQMMCHLP"                 /* MVS msgs and code */
 Command ===>                                             Scroll ===> CSR
 VISQPCFG=viasoft"."center".SQCONFIG"                /* Configuration File*/
 VISQUPRF=viasoft"."center".SQUPROF"                  /* SQ User Profile   */
 VISQMACD=cics".DFHCMACD"                             /* DFHCMACD File     */
                                                      /*                   */
 "VPUT (VISQLOAD, VISQCABD, VISQMMAC, VISQPCFG) PROFILE"/* Store variables  */
 "VPUT (VISQHELP, VISQMABD, VISQUPRF, VISQMACD) PROFILE"/* in users profile. */
                                                      /*                   */
/*****************************************************               */
/*                                                                   */
/* Note: -Load library can be found from install ESW JOB             */
/*       -Viewer help file created by option 3.1 of the maintenance facility */
/*       -CICS abend codes created by option 3.2 of the maintenance facility */
/*       -MVS anebd codes created by option 3.3 of the maintenance facility  */
/*       -MVS msg and code created by option 3.4 of the maintenance facility */
/*       -User Profile file created by option 1 of the maintenance facility  */
/*       -Configuration file created by option 2 of the maintenance facility */
/*       -DFHCMACD was created during CICSinstall by job DFHCMACI (see your  */
/*          CICS installation guide)                                 */
/*                                                                   */
/*********************************************************************/


/*********************************************************************/
/*                                                                   */
/* Setup ESW AKR Interface for AKR based source support              */
/*                                                    See Notes Below  */
/*****************************************************               */
                                                      /*             */
 VIALLIB=viasoft"."center".LOADLIB"                   /* ESW Load Library  */
 VIALOG="*"                                           /* VIALOG routing    */
                                                      /*                   */
 "VPUT (VIALLIB,VIALOG) PROFILE"                      /* Store in profile. */
                                                      /*                   */
/*****************************************************               */
/*                                                                   */
/* Note: - VIALOG is diagnostic output that would be requested by ASG       */
/*         Customer support and has the following options:           */
/*        1) "*".....................Routes output to users terminal        */
/*        2) "DUMMY".................Suppresses all output.                 */
/*       3) "existing-file-name"...Cataloged DSN with RECFM=VA,LRECL=137,  */
/*                                 BLKSIZE=141.                      */
/*                                                                   */
/*********************************************************************/

 return
```

```
/* Error routines.                                                  */

syntax:
   say "Syntax error at line" sigl "in EXEC VISQVDFT"
   exit
```

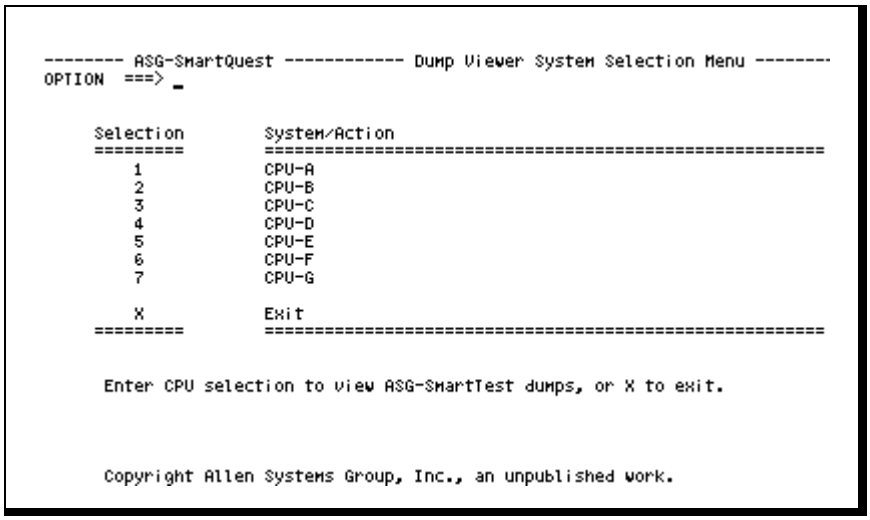
Presetting Dump and Source Files

Use VISQVSEL to preset the dump and source files. The Dump Index DSN, Primary Source DSN, and Secondary Source DSN fields display only if you invoked the dump viewer using VISQVSEL. These are the default datasets that SmartQuest will default to when a user opens the dump viewer.

To view preset the dump and source files, follow this step:

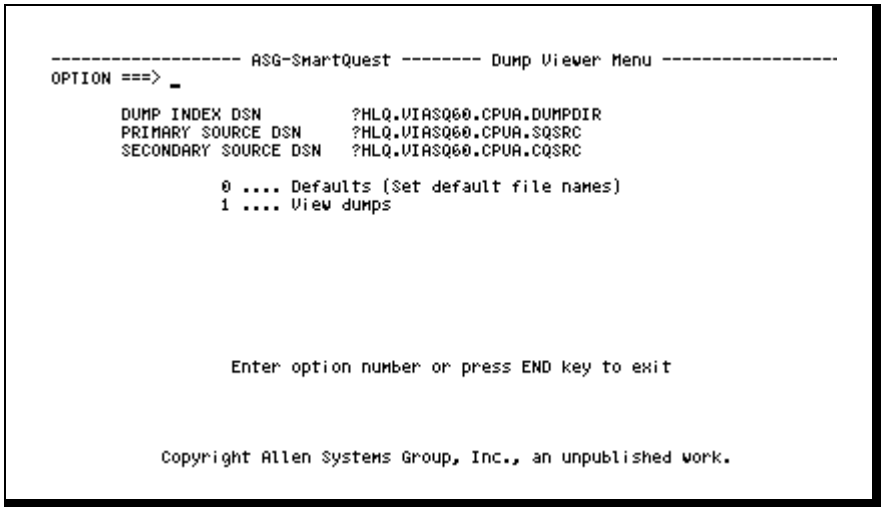
- From the ASG-SmartQuest - Dump Viewer System Selection Menu, shown in Figure 47, type the selection number corresponding to the system you want to designate the dump and source files for and press Enter.

Figure 47 • ASG-SmartQuest - Dump Viewer System Selection Menu



The ASG-SmartQuest - Dump Viewer Menu, shown in Figure 48, displays, listing the preset dataset names.

Figure 48 • ASG-SmartQuest - Dump Viewer Menu



Step 13 - Starting the Abend Trapping Mechanisms (MVS & CICS)

You must complete SmartQuest customization before you can start abend trapping for MVS or CICS (see "Configuring and Customizing SmartQuest" on page 19).

MVS

To start the abend trapping mechanism, or to restart or stop abend trapping, see the MVS operator commands in "Starting SmartQuest" on page 105 for more information.

CICS

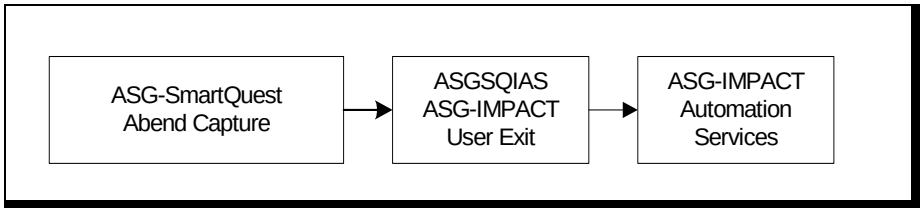
If you modified your PLT as shown in "Step 4 - Modifying CICS PLT (CICS Only)" on page 70 and completed the customization, the SmartQuest abend trapping mechanism starts automatically when CICS is initialized.

To start the abend trapping mechanism manually, or to restart the mechanism after manually stopping it, use the IQST transaction. See “Starting SmartQuest” on page 105 for more information.

Step 14 - Enabling the ASG-IMPACT Interface (MVS & CICS - Optional)

SmartQuest provides a user exit interface for integration with fault management products such as ASG-IMPACT. This user exit is managed by parameters supplied on the SmartQuest Maintenance Facility screens. Summary abend information, including abending source code summary, is passed to the user exit during the abend capture process as shown in Figure 49. SmartQuest and the original abending task (i.e., MVS job, IMS transaction, CICS region, etc.) are suspended until control is returned to SmartQuest.

Figure 49 • Execution Environments



The ASGSQIAS user exit invokes ASG-IMPACT Automation Services using asynchronous calls, which minimizes user exit wait time. See the *ASG-IMPACT Automation Services User's Guide* for more information.

SmartQuest calls the user exit with two function codes, NEW and UPDT, and a maximum of 24 lines of buffered text. Information is passed to the user exit through the ASGSQUXT interface layout. The user exit processes this information and returns control to SmartQuest. SmartQuest may call your exit interface multiple times in order to pass all text data (24 lines at a time) associated with the abend.

This table contains a list of the user exit components supplied with SmartQuest.

Source/MACLIB	JCL	Load Modules
ASGSQIAS	ASGSQCMP	ASGSQIAS
ASGSQUXT	ASGSQTST	ASGSQTST
		ASGSQLNK
		ASGSQDAT

SmartQuest passes to ASGSQIAS one parameter mapped out by the layout/MACLIB member ASGSQUXT (Figure 50). ASGSQIAS arranges the passed information into a format acceptable to ASG-IMPACT Automation Services. The 24 text lines are first initialized to x'FF' (COBOL HIGH-VALUES) and any unused lines retain the x'FF' setting. This information is then passed to ASG-IMPACT Automation Services through an MVS LINK to ASFLINK, or through an EXEC CICS LINK to ASFCICS.

Note:

ASGSQIAS calls ASFLINK, the MVS and CICS CALLable interface. Use ASGSQCMP to recompile the ASGSQIAS source files.

Figure 50 • ASGSQUXT User Exit

```
         MACRO
&LABEL   ASGSQUXT &TYPE=DSECT,&LIST=YES
         PUSH  PRINT
         PRINT GEN
*************************************************************************
*                                                                       *
*          ******************    ***************************************
*         ********************  ****************************************** *
*       *****            *****  ******              *****               *
*      *****            *****  ******              *****                *
*     ********************  ******************   *****     *******     *
*    **********************   ******************  *****     ********    *
*   *****            *****              ******  *****          ***     *
*  *****            *****              ******  *****          ***      *
* *****           ************************  ******************       *
******           ************************    ******************       *
*                                                                       *
*************************************************************************
*                                                                       *
```

```
*  SMART QUEST USER EXIT INTERFACE TO ASG-IMPACT AUTOMATION SERVICES  *
*                                                                     *
***********************************************************************
*                                                                     *
* COPYRIGHT ALLEN SYSTEMS GROUP, INC., AN UNPUBLISHED WORK.           *
* A PROPRIETARY PRODUCT OF ASG, INC.  USE RESTRICTED TO AUTHORIZED    *
* LICENCEES.  VISIT THE ASG SUPPORT WEB SITE AT SUPPORT.ASG.COM       *
*                                                                     *
***********************************************************************
*                                                                     *
* ASGSQUXT - MACRO                                                    *
*                                                                     *
*---------------------------------------------------------------------*
*                                                                     *
* ASGSQUXT- CONTROL BLOCK INTERFACE FOR SMART QUEST USER EXIT         *
*                                                                     *
***********************************************************************
         POP   PRINT
         PUSH  PRINT
         AIF   ('&LIST' NE 'YES').NOLIST1
         PRINT GEN,DATA
         AGO   .NOLIST2
.NOLIST1 ANOP
         PRINT NOGEN,NODATA
.NOLIST2 ANOP
         AIF   ('&TYPE' NE 'DSECT').NODSCT1
ASGSQUXT DSECT
         AGO   .NODSCT2
.NODSCT1 ANOP
ASGSQUXT DS    0H
.NODSCT2 ANOP
*---------------------------------------------------------------------*
SQUXT_FUNCTION             DS   CL4     PRODUCT EXIT FUNCTION
SQUXT_RETURN_CODE          DS   H       PRODUCT EXIT RETURN CODE
SQUXT_RETURN_MSG           DS   CL80    PRODUCT EXIT RETURN MESSAGE
*---------------------------------------------------------------------*
SQUXT_TOKEN                DS   CL20    UNIQUE TOKEN FOR DUMP
SQUXT_DUMP_TYPE            DS   CL1     DUMP TYPE
*                                       C'M' FOR MVS
*                                       C'C' FOR CICS
SQUXT_MVS_JOB_NAME         DS   CL8     ABENDING JOB NAME
SQUXT_MVS_STEP_NAME        DS   CL8     ABENDING STEP NAME
SQUXT_CICS_APPLID          DS   CL8     CICS APPLID WHERE ABEND OCCURD
SQUXT_CICS_TRAN_NAME       DS   CL4     ABENDING CICS TRAN NAME
SQUXT_ABEND_DATE           DS   CL8     ABEND DATE YYYYMMDD
SQUXT_ABEND_TIME           DS   CL6     ABEND TIME HHMMSS
SQUXT_CSECT                DS   CL8     ABENDING CSECT
SQUXT_ABEND_CODE           DS   CL4     ABEND OR RETURN CODE
SQUXT_ABEND_PSW            DS   CL16    ABENDING PSW
SQUXT_ABEND_OFFSET         DS   CL8     ABEND OFFSET
*---------------------------------------------------------------------*
SQUXT_TEXT_LINE            DS   CL80    TEXT MESSAGES UP TO 24
                           ORG  SQUXT_TEXT_LINE
SQUXT_TEXT_01              DS   CL80    TEXT MESSAGE LINE 01
SQUXT_TEXT_02              DS   CL80    TEXT MESSAGE LINE 02
SQUXT_TEXT_03              DS   CL80    TEXT MESSAGE LINE 03
SQUXT_TEXT_04              DS   CL80    TEXT MESSAGE LINE 04
SQUXT_TEXT_05              DS   CL80    TEXT MESSAGE LINE 05
SQUXT_TEXT_06              DS   CL80    TEXT MESSAGE LINE 06
SQUXT_TEXT_07              DS   CL80    TEXT MESSAGE LINE 07
SQUXT_TEXT_08              DS   CL80    TEXT MESSAGE LINE 08
SQUXT_TEXT_09              DS   CL80    TEXT MESSAGE LINE 09
SQUXT_TEXT_10              DS   CL80    TEXT MESSAGE LINE 10
SQUXT_TEXT_11              DS   CL80    TEXT MESSAGE LINE 11
SQUXT_TEXT_12              DS   CL80    TEXT MESSAGE LINE 12
SQUXT_TEXT_13              DS   CL80    TEXT MESSAGE LINE 13
SQUXT_TEXT_14              DS   CL80    TEXT MESSAGE LINE 14
SQUXT_TEXT_15              DS   CL80    TEXT MESSAGE LINE 15
SQUXT_TEXT_16              DS   CL80    TEXT MESSAGE LINE 16
SQUXT_TEXT_17              DS   CL80    TEXT MESSAGE LINE 17
SQUXT_TEXT_18              DS   CL80    TEXT MESSAGE LINE 18
SQUXT_TEXT_19              DS   CL80    TEXT MESSAGE LINE 19
SQUXT_TEXT_20              DS   CL80    TEXT MESSAGE LINE 20
SQUXT_TEXT_21              DS   CL80    TEXT MESSAGE LINE 21
SQUXT_TEXT_22              DS   CL80    TEXT MESSAGE LINE 22
SQUXT_TEXT_23              DS   CL80    TEXT MESSAGE LINE 23
SQUXT_TEXT_24              DS   CL80    TEXT MESSAGE LINE 24
```

```
*-------------------------------------------------------------------*
SQUXT_LENGTH              EQU  *-ASGSQUXT
*********************************************************************
*                                                                   *
* ASGSQUXT - MACRO END                                              *
*                                                                   *
*********************************************************************
         POP   PRINT
         MEND
```

You should review and modify, as needed, the default values passed to ASFLINK (i.e., REPORTED_BY, REPORTER_DEPT, and so forth). See the *ASG-IMPACT Automation Services User's Guide* for information on these fields.

To test the user exit, you can substitute ASGSQLNK for ASFLINK. ASGSQLNK is the MVS and CICS testing program that will write to operator (WTO) the information that would normally be sent to ASFLINK. Excessive WTOs can be issued if your testing is not carefully limited.

The ASGSQTST JCL and ASGQTST load module provides one hard-coded dump data (ASGSQDAT) for testing your MVS and CICS SmartQuest exit. Because ASGSQTST requires access to the VISQEXT load module, you must have the SmartQuest load library concatenated with the STEPLIB in ASGSQTST.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//STEP010  EXEC PGM=ASGSQTST
//STEPLIB  DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSUDUMP DD   SYSOUT=&SYSOUT
```

Step 15 - Using the Tivoli Service Desk Problem Creation Exit (MVS & CICS - Optional)

You can use the source member ASGSQIAS in the SmartQuest JCL library as models for writing user exits for the Tivoli Service Desk and other products. ASG does not provide a working example for Tivoli Service Desk. You should refer to the appropriate Tivoli documentation for more information about designing, creating, and testing your user exit.

Caution! User-written exits must return control to SmartQuest without delay. The time taken by the user-written exit directly affects the original abending task (MVS job, IMS transaction, CICS region, etc.) because SmartQuest and the tasks are suspended until control is returned to SmartQuest.

CICS Installation Verification

To verify that the product has been correctly installed, complete this step:

- Compile the sample application programs supplied in the SmartQuest samples file using your modified compile and assembly JCL decks.

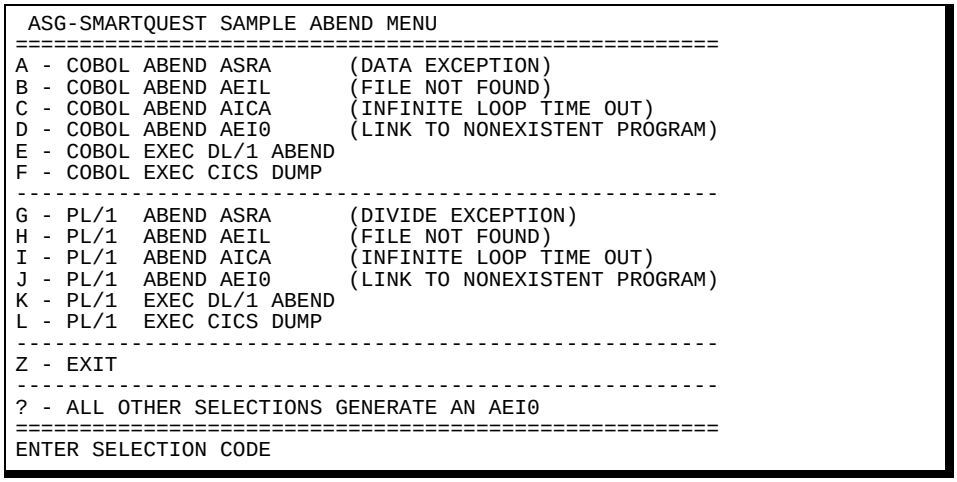
These are the three sample programs:

- VICQSASM for Assembler
- VICQSCOB for COBOL
- VICQSPLI for PL/I

RDO definitions for these programs are included with the general RDO definitions for the product.

The Assembler program (VICQSASM) is invoked directly by the IQTS transaction and displays a menu (see Figure 51) that allows you to cause a variety of abends in the COBOL or PL/I sample programs. These are invoked through an EXEC CICS LINK with a COMMAREA. The COBOL and PL/I programs rely on the COMMAREA and cannot be invoked directly by a transaction.

Figure 51 • IQTS Transaction Sample Abend Menu



```
 ASG-SMARTQUEST SAMPLE ABEND MENU
=========================================================
A - COBOL ABEND ASRA      (DATA EXCEPTION)
B - COBOL ABEND AEIL      (FILE NOT FOUND)
C - COBOL ABEND AICA      (INFINITE LOOP TIME OUT)
D - COBOL ABEND AEI0      (LINK TO NONEXISTENT PROGRAM)
E - COBOL EXEC DL/1 ABEND
F - COBOL EXEC CICS DUMP
---------------------------------------------------------
G - PL/1  ABEND ASRA      (DIVIDE EXCEPTION)
H - PL/1  ABEND AEIL      (FILE NOT FOUND)
I - PL/1  ABEND AICA      (INFINITE LOOP TIME OUT)
J - PL/1  ABEND AEI0      (LINK TO NONEXISTENT PROGRAM)
K - PL/1  EXEC DL/1 ABEND
L - PL/1  EXEC CICS DUMP
---------------------------------------------------------
Z - EXIT
---------------------------------------------------------
? - ALL OTHER SELECTIONS GENERATE AN AEI0
=========================================================
ENTER SELECTION CODE
```

Note:

Both the COBOL and the PL/I sample programs include EXEC DLI calls which use the sample DL/1 database and PSBs supplied with IMS and which form part of the IMS installation verification procedure. If you do not use DL/1 remove the EXEC DLI calls from the programs before compiling.

MVS Installation Verification

To verify that the product has been correctly installed, complete this step:

- Compile and run the sample application programs that are supplied in the SmartQuest samples file using the modified compile decks.

These are the three sample programs:

- VISQSCOB for COBOL
- VISQSPLI for PL/I
- VISQSASM for Assembler

The JCL to run these sample programs can be found in VISQJCOB, VISQJSPL, and VISQJASM in the SmartQuest samples library.

Using COBOL

To modify the VISQJCOB COBOL JCL

1 Complete the JOB card for VISQJCOB.

2 Check the parameter values to reflect your company standards.

3 If your COBOL or LE run-time libraries are not in the LPA or LNKLST, add them to the STEPLIB DD concatenation.

Note:

Include this run time parameter, PARM=’/TRAP(OFF), if you are running LE support Version 1.5 or Version 1.7.

4 Move the required abend test line to the top of the list because only the first line of the SYSCOBI input dataset is processed.

Note:

Ensure that the sample COBOL program VISQSCOB has been compiled using your modified compile procedure and that it has been link-edited to the SmartQuest load library.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST FOR MVS                      *
//*                                                                   *
//* MEMBER NAME: VISQJCOB                                             *
```

```
//*                                                                    *
//* DESCRIPTION: RUN SAMPLE ABENDING COBOL PROGRAM!                    *
//*                                                                    *
//* INSTRUCTIONS:                                                      *
//*                                                                    *
//* 1.  CHECK PARAMETER VALUES IN  STATEMENTS BELOW                    *
//* 2.  IF YOUR COBOL OR LE/370 RUN-TIME LIBRARIES ARE NOT IN THE LPA  *
//*     OR LNKLST THEN ADD THEM TO THE STEPLIB DD CONCATENATION        *
//* 3.  ONLY THE FIRST LINE OF THE SYSCOBI INPUT IS ACTIONED, SO MOVE  *
//*     THE REQUIRED TEST ABEND TO THE TOP OF THE LIST.                *
//*                                                                    *
//*********************************************************************
//*
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//STEP1    EXEC PGM=VISQSCOB
//STEPLIB  DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//*DBGINQST DD   DUMMY
//SYSABEND DD   SYSOUT=&SYSOUT
//SYSCOBO  DD   SYSOUT=&SYSOUT,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FB)
//SYSCOBI  DD   *
S806    CALL NON-EXISTING PROGRAM
SSOR    SUBSCRIPT OUT OF RANGE
S0C7    DATA EXCEPTION
S0CB    DIVIDE EXCEPTION
SNAP    PRODUCE SMARTQUEST SNAP DUMP
/*
```

Using PL/I

To modify the VISQJSPL PL/I JCL

1. Complete the JOB card.
2. Check the parameter values to reflect your company standards.
3. If your PL/I or LE run-time libraries are not in the LPA or LNKLST, add them to the STEPLIB concatenation.
4. Move the required test abend line to the top of this list before submitting because only the first line of SYSPL1I is processed.

Note:

Ensure that VISQSPLI has been compiled using your modified procedures and that it have been link-edited to the SmartQuest load library.

When VISQSPLI is compiled, it receives a condition code of 8. You may need to change the value on your LKED COND= parameter to compile this program.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST FOR MVS                      *
//*                                                                   *
//* MEMBER NAME: VISQJSPL                                             *
//*                                                                   *
//* DESCRIPTION: RUN SAMPLE ABENDING PL/I PROGRAM!                    *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//* 1.  CHECK PARAMETER VALUES IN STATEMENTS BELOW                    *
//* 2.  IF YOUR PL/1 OR LE/370 RUN-TIME LIBRARIES ARE NOT IN THE LPA  *
//*     OR LNKLST THEN ADD THEM TO THE STEPLIB DD CONCATENATION.      *
//* 3.  ONLY THE FIRST LINE OF THE SYSPL1I INPUT IS ACTIONED, SO MOVE *
//*     THE REQUIRED TEST ABEND TO THE TOP OF THE LIST.               *
//*                                                                   *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//STEP1    EXEC PGM=VISQSPLI
//STEPLIB  DD   DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSABEND DD   SYSOUT=&SYSOUT
//SYSPL1O  DD   DSN=&TEMP,DISP=(,PASS),
//         DCB=(RECFM=F,BLKSIZE=80,LRECL=80,DSORG=PS),
//         SPACE=(TRK,(1,0)),UNIT=&SYSDA
//SYSPL1I  DD   *
S0C1    CALL NON-EXISTING PROCEDURE (S806 FOR LE/370)
S0C7    DATA EXCEPTION
SSOR    SUBSCRIPT OUT OF RANGE
SERR    SIGNAL ERROR
SD37    DATASET OUT OF SPACE
S0CB    DIVIDE EXCEPTION
SNAP    PRODUCE SMARTQUEST SNAP DUMP
/*
```

Using Assembler

To modify the Assembler JCL

1. Complete the JOB card in member VISQJASM.
2. Check the parameter value in the PROC statement.
3. Change the high-level qualifier for the SmartQuest JCL library to one that reflects your company standards.
4. A SOC7 or SOC4 execution parameter is required to run this JCL.

Note:

Ensure that VISQSASM has been compiled using your modified procedures and that it has been link-edited to the SmartQuest load library.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST FOR MVS                      *
//*                                                                   *
//* MEMBER NAME: VISQJASM                                             *
//*                                                                   *
//* DESCRIPTION: RUN SAMPLE ABENDING ASSEMBLER PROGRAM!               *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//* 1.  CHECK VALUE FOR PRM, USE S0C7 OR S0C4                         *
//*                                                                   *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//         SET  PRM='S0C7'                TEST PARAMETER
//STEP1    EXEC PGM=VISQSASM,PARM='&PRM',REGION=512K
//STEPLIB  DD  DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSUDUMP DD  SYSOUT=&SYSOUT
//MESSAGES DD  SYSOUT=&SYSOUT
```

5 Starting SmartQuest

This chapter describes how to start SmartQuest in MVS and CICS environments and contains these sections:

Initiating SmartQuest

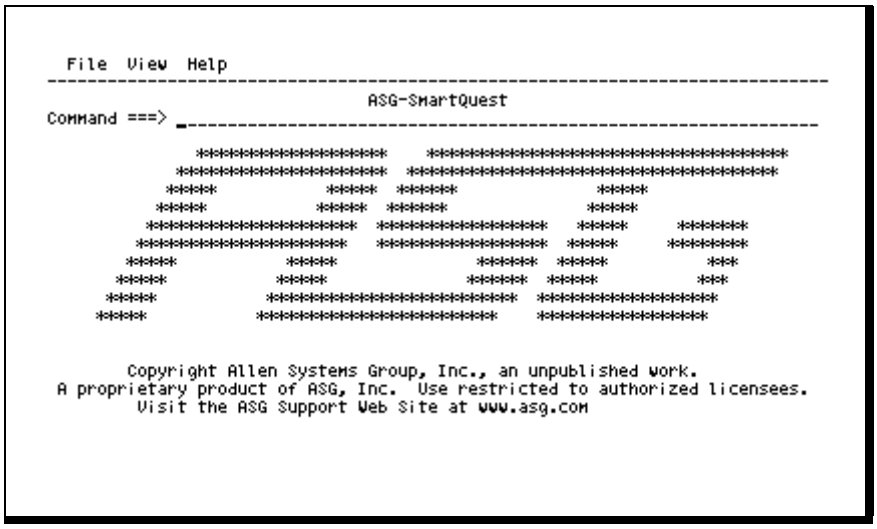
The method that you use to invoke SmartQuest depends on your system setup. If you need assistance to activate SmartQuest, see your system administrator.

If your site starts SmartQuest directly, use the ISPF selection or the CLIST as indicated by your system administrator.

To start SmartQuest through the ESW primary screen, follow this step:

- From the ESW primary screen, select Understand ▸ Abend/Dump. The ASG-SmartQuest primary screen, shown in Figure 52, displays.

Figure 52 • SmartQuest Primary Screen



MVS

Note:

If you are using the PL/I STAE or SPIE run time options, you must complete the customization of error conditions before starting SmartQuest. See "PL/I Condition Actions" on page 43 for more information.

To activate the SmartQuest abend trapping mechanism, follow this step:

- Type `S MVSINQST` and press Enter.

To disable the SmartQuest dump capture mechanism without freeing any resources, follow this step:

- Type `F MVSINQST,SHUT` and press Enter.

To re-enable dump capture, follow this step:

- Type `F MVSINQST,INIT` and press Enter.

To terminate the SmartQuest abend trapping mechanism, follow this step:

- Type `P MVSINQST` and press Enter.

Note:

Use the F MVSINQST,SHUT command before using the P MVSINQST command unless you intend to re-IPL your system.

CICS

The IQST transaction enables you to start, stop, and modify SmartQuest in a CICS region.

Using the CICS System Programmer/Administrator Facility

The IQST transaction accepts a command string consisting of keyword commands, some of which have operands. This is an example of a command to initialize SmartQuest:

```
IQST INIT
```

IQST Commands

These IQST commands are described in detail in this chapter.

Command	Description
ALTER	Alters the status of SmartQuest.
INIT	Initializes SmartQuest in the CICS region.
PARMSHOW	Lists the INIT values that are currently active.
SHUT	Ends SmartQuest.

ALTER Command

The ALTER command changes the status of one or more components of SmartQuest in the CICS region. This is the syntax for the ALTER command:

```
IQST ALTER   (CAPTURE=YES|NO)
             (,MSGLEVEL=n)
```

Operand	Valid Values	Description
CAPTURE	YES	Causes dump capture to be activated during SmartQuest initialization. This is the default.
	NO	Causes dump capture to be terminated. All dumps that are queued for capture will be processed before the dump capture is terminated.
MSGLEVEL	1-9	Specifies the level of detail that SmartQuest status and progress messages are to be presented. See "Message Levels" on page 111 for more information. The default message level is 1.

INIT Command

The INIT command is entered from a blank screen and initializes SmartQuest in the CICS region. This is the syntax for the INIT command:

```
IQST INIT
    (CAPTURE=YES|NO)
    (,MSGLEVEL=1|n)
```

Figure 53 is an example of the information displayed by the INIT command

Figure 53 • Example of INIT Command

```
VSA1141I +ASG-SmartQuest+--------------Parameter display---------------------
VSA1142I | CICS RELEASE | 0530
VSA1142I |  CICS APPLID | VIACDA3
VSA1142I |     FILE SET | CQ50L001
VSA1142I |   DUMP INDEX | ASG.SQ70L001.DUMPDIR
VSA1142I | SOURCE INDEX | ASG.SQ70L001.CQSRC
VSA1142I |    MSG LEVEL | 1
VSA1141I +ASG-SmartQuest+--------------Parameter display---------------------

VSA1113I ASG-SmartQuest - CICS VIACDA3  is active
```

Operand	Valid Values	Description
CAPTURE	YES	Causes dump capture to be activated during SmartQuest initialization. This is the default.
	NO	Causes SmartQuest to be initialized with dump capture inactive.
MSGLEVEL	1-9	Specifies the level of detail that SmartQuest status and progress messages are to be presented. See "Message Levels" on page 111 for more information.

PARMSHOW Command

The PARMSHOW command lists the SmartQuest initialization parameters that are currently in effect for the CICS region. This is the syntax for the PARMSHOW command:

```
IQST PARMSHOW
```

Figure 54 is an example of the information displayed by the PARMSHOW command.

Figure 54 • Example of PARMSHOW Screen

```
VSA1141I +ASG-SmartQuest+--------------Parameter display---------------------
VSA1142I | CICS RELEASE | 0530
VSA1142I |  CICS APPLID | VIACDA3
VSA1142I |     FILE SET | CQ70L001
VSA1142I |   DUMP INDEX | ASG.SQ70L001.DUMPDIR
VSA1142I | SOURCE INDEX | ASG.SQ70L001.CQSRC
VSA1142I |      CAPTURE | YES
VSA1142I |        SLOTS | 0255
VSA1142I |    MSG LEVEL | 1
VSA1141I +ASG-SmartQuest+--------------Parameter display---------------------
```

Operand	Valid Values	Description
CAPTURE	YES	Causes dump capture to be activated during SmartQuest initialization. YES is the default.
	NO	Causes SmartQuest to be initialized with dump capture inactive.
SLOTS	0-255	Specifies the size of the dump capture slot table. You can increase the size of the table, but it cannot be reduced.
MSGLEVEL	1-9	Specifies the level of detail that SmartQuest status and progress messages are to be presented. See "Message Levels" on page 111 for more information.

SHUT Command

The SHUT command ends SmartQuest in the CICS region. The dump capture and all active dump viewers are scheduled for termination. This is the syntax for the SHUT command:

```
IQST SHUT    (ORDERLY|IMMEDIATE)
```

Operand	Description
ORDERLY	Schedules the dump capture for termination. All queued dump captures are processed. All dump viewers are allowed to continue to normal termination. This is the default.
IMMEDIATE	Schedules the dump capture for immediate termination. All queued dump captures are abandoned and no additional dumps are captured by SmartQuest. If a dump is in progress it is allowed to complete. All dump viewers are also scheduled for termination. The SmartQuest dump repository server thread is instructed to terminate at the next service request, and the viewer is terminated immediately.

Message Levels

You can use the SmartQuest messages to review the status and progress of SmartQuest. Some messages are of interest to the user and some are highly detailed and primarily of interest to ASG Customer Support during problem analysis. Because these messages are assigned message levels, you can control which messages are displayed and which messages are suppressed. These are the message levels and types:

Message Level	Description
1	Requires user attention or intervention. Level 1 messages indicate the starting or stopping of SmartQuest, status command responses, and all error messages.
2	Specifies messages that may be of interest, but which can usually be ignored. These messages include notifications of unusual, but recoverable conditions.
3	Provides a lower level of detail to the operation of SmartQuest. These messages include informational messages that occur during the normal operation of SmartQuest.
4	Provides module trace information of primary interest to ASG Customer Support.
5	Provides routine trace information of primary interest to ASG Customer Support.
6	Provides detailed routine trace information of primary interest to ASG Customer Support.

6 Utilities

This chapter describes the SmartQuest utilities and contains these sections:

These offline utilities are available to provide additional functions or to support the online features.

Utility	Member/Job Name - CICS	Member/Job Name - MVS
Printing offline dumps	VICQJPRT	VISQJPRT
Providing source-level support (post-compile processor)	VICQUPST	VICQUPST
Maintaining and listing the source file contents	VICQUPST	VICQUPST
Reorganizing the source file	VICQJOSA, VICQJOSB, VICQJOSC	VISQJOSA, VISQJOSB, VISQJOSC
Deleting dumps	VISQJATD	VISQJATD

Printing Offline Dumps

The member VICQJPRT (CICS) or VISQJPRT (MVS), in the SmartQuest JCL library, contains the JCL job necessary to produce a print of any dump from your SmartQuest dump file. Make these changes before submitting this JCL deck:

1. Change or replace the job card with your job card information.
2. Check the parameter values to reflect your company standards.
3. Change ####### to the required dump number. Ensure the DSN for the MVDUMP DD is complete and correct.

VISQJPRT (MVS)

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST FOR MVS                      *
//*                                                                   *
//* MEMBER NAME: VISQJPRT                                             *
//*                                                                   *
//* DESCRIPTION: DUMP PRINT UTILITY                                   *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//* 1.  CHECK PARAMETER VALUES IN STATEMENTS BELOW                    *
//* 2.  CHANGE ####### TO THE REQUIRED DUMP NUMBER.  ENSURE THE DSN   *
//*     FOR THE MVDUMP DD BELOW IS COMPLETE AND CORRECT.              *
//*                                                                   *
//*********************************************************************
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//VISQUPRT EXEC PGM=VISQUPRT,REGION=1M
//STEPLIB  DD  DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSABEND DD  SYSOUT=&SYSOUT
//SYSUDUMP DD  SYSOUT=&SYSOUT
//MVDUMP   DD  DISP=SHR,DSN=&ASG..&CENTER..D#######
//MVINDEX  DD  SYSOUT=&SYSOUT
//MVPRINT  DD  SYSOUT=&SYSOUT
//*
```

VICQJPRT (CICS)

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.         ASG-SMARTQUEST FOR CICS                         *
//*                                                                   *
//* MEMBER NAME: VICQJPRT                                             *
//*                                                                   *
//* DESCRIPTION: DUMP PRINT UTILITY.                                  *
//*                                                                   *
//*********************************************************************
//*
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
//         SET  SYSOUT='*'
//VICQUPRN EXEC PGM=VICQUPRN,REGION=1M
//STEPLIB  DD  DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSABEND DD  SYSOUT=&SYSOUT
//SYSUDUMP DD  SYSOUT=&SYSOUT
//HSDUMP   DD  DSN=&ASG..VIACENxx.D#######,DISP=SHR
//HSINDEX  DD  SYSOUT=&SYSOUT
//HSPRINT  DD  SYSOUT=&SYSOUT
```

Providing Source Support

To provide source-level support for your application programs, the necessary information must be available in the SmartQuest source file. This information does not need to be in the file when the abend occurs because you can add it later.

Note:

Your source file information must exactly match your load modules to receive predictable results.

Source information is added to the SmartQuest source file by running the compiler output of your programs through a special post-compile processor. You must modify your compile and assembly JCL decks.

Note:

See "Step 9 - Modifying the Compile JCL Decks (MVS & CICS)" on page 82 for more information about modifying your compile JCL decks.

This is the basic post-compile JCL:

```
//VICQUPST EXEC PGM=VICQUPST,
//            COND=(5,LT,COBOL2_COMPILE_STEP_NAME)
//STEPLIB DD DSN=&ASG..&CENTER...LOADLIB,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//HSSOURCE DD DSN=VIAHLQ.VIAMLQ.SOURCE,DISP=SHR
//ISOURCE  DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//OSOURCE  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OREPORT  DD SYSOUT=*,DCB=(BLKSIZE=1330,LRECL=133,RECFM=FBA)
//OTEMPSRC DD DSN=&&TMPSRC,DISP=(NEW,PASS),
//         SPACE=(TRK,(50,5),RLSE),UNIT=SYSDA,
//         DCB=(BLKSIZE=4096,LRECL=4092,RECFM=V)
//IPARMS   DD  *
UPDATE,LANG=COBOL2,LOADMOD=YOUR_LOAD_MODULE_NAME
/*
//* THE NEXT STEP IS ONLY RUN IF THE COMPILE ENDED RETURN CODE 5 OR
//* HIGHER.
//PRINT    EXEC PGM=IEBGENER,
//            COND=(5,GE,COBOL2_COMPILE_STEP_NAME)
//SYSUT1   DD DSN=&&COBOUT,DISP=(OLD,DELETE)
//SYSUT2   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSIN    DD DUMMY
/
//
```

The post-compile utility program is VICQUPST. The STEPLIB DD card specifies the SmartQuest load library that contains this program. These are the other significant DD cards:

- HSSOURCE is the SmartQuest VSAM KSDS source file. This is where the final source support information for the processed program is written.
- ISOURCE is a dataset containing your compiler or Assembler output listing.
- OSOURCE is where a copy of your compiler or Assembler output listing is written, and this DD card should therefore specify a SYSOUT dataset.
- OTEMPSRC is a temporary work file. All source file records are written to this temporary dataset. When the post-compile processing is complete and all the records have been built, they are copied to the VSAM source file (HSSOURCE).

- IPARMS is the required input parameter card. To provide source support, this parameter card must have this format:

```
UPDATE,LANG=language,LOADMOD=load-module-name,CHG=new-name
```

where:

Parameter	Description
LANG=	Must be specified and should be one of these languages: • COBOL2 (COBOL 2 release 3 and later) • COBOL370 (COBOL for MVS and VM) • PLI (PL/I 2.3.0) • PLI370 (PL/I for MVS and VM) • ASMH (Assembler H) • HLASM (High-level Assembler)
LOADMOD=	Optional. If present, it must specify the final load module name that this program forms a part of. If you omit this operand, a default load module name is assigned. In the case of COBOL, this name is the name on the first PROGRAM ID card. For PL/I, this name is the main procedure name. For Assembler, this name is the first CSECT name.
CHG=	Optional. If specified, must appear last. When information is not stored in the source support file, it is held under LOAD MODULE NAME as the main key and CSECT NAME as the minor key. (For COBOL the CSECT name is the name specified in the PROGRAM ID field.) If the CSECT name is changed during the link-edit by a CHANGE card, source is not provided. Use the CHG= parameter to avoid this problem. For example, if a COBOL program is called HSCOB2A in the PROGRAM ID field, but the link-edit contains the card CHANGE HSCOB2A(HSCOB201), code the IPARMS as shown in this example: `UPDATE,LANG=COBOL2,LOADMOD=HSCOB2A,CHG=HSCOB201`
OREPORT	A SYSOUT dataset where the post-compile processor writes informational and error messages. Check this output to ensure that post-compile processing has been successfully completed.

The second step, named PRINT, is only executed if your actual compile step ends with an unacceptable return code. This PRINT step causes the compiler output to be written straight to a SYSOUT dataset so that compiler errors can be examined.

Samples of these steps for each programming language can be found in these members in the SmartQuest CNTL library:

Language	CICS	MVS
COBOL 2	VICQJCC2	VISQJCC2
COBOL370	VICQJCC3	VISQJCCE
PL/I	VICQJPLI	VISQJPLI
PL/I370	VICQJ370	VISQJ370
ASMH	VICQJCAS	VISQJCAS
HLASM	VICQJHLA	VISQJHLA

Maintaining and Listing the Source File Contents

You can also use the VICQUPST program to delete or list entries on the source file. The sample JCL job is similar to the JCL shown in the above source support section. These are the differences:

- The ISOURCE, OSOURCE, and OTEMPSRC DD cards should all specify DD DUMMY.
- The IPARM card should specify one of these options:
  - LIST
  - LIST,LOADMOD=*load-module-name*
  - DELETE,LOADMOD=*load-module-name*
  - DELETE,DATE=*yyyymmdd*
  - DELETE,LOADMOD=*load-module-name*,DATE=*yyyymmdd*
  - FLIST,LOADMOD=*load-module-name*

where:

Option	Description
LIST	specified by itself, lists all load modules for which source-level support exists. For each module on this list you can see the module and CSECT names, the date this source support information was created, the language of the module, and some statistics about its source file records. You can specify a module name for LIST. Use a specific name to produce a report for a single load module, or a generic name to produce a report for a group of load modules. For example, LOADMOD=MYPROG or LOADMOD=MY*.
DELETE	is used to delete a single entry or a group of entries from the source file. You must specify a load module name, a generic load module name, or a date parameter. The date is in the format YYYYMMDD and causes all entries added to the file before that date to be deleted. You can specify both a LOADMOD and a DATE parameter when deleting entries.
FLIST	must have a non-generic load module name supplied on the LOADMOD parameter. This option produces a diagnostic listing of the source file information for a single entry on the file. It is not intended for customer use, but may be requested by ASG Customer Support.

A sample of the LIST option output is shown in Figure 55. The DELETE option produces similar output.

Figure 55 • Sample LIST Option Output

```
 (c)2003 Copyright ASG, Inc.                        ASG-SmartQuest 7.0                                          Page     2

                                                Source File Program Summary Report.

     Load      Csect      Date                 Source   Source Index    Stmt/Offset       Mapping    Assoc. Data    Assoc. Data
    Module     Name    YYYY/MM/DD  Language     Records       Records       Records       Records       Records  Index Records

   MVMAPPRG  MVMAPPRG  2002/04/30  Assembler H       81             1             2            36             0              0
   VISQSASM  VIAPXESA  2002/06/27  HL Assembler      28             1             2             7             0              0
   VISQSCOB  VISQSCOB  2002/06/27  Cobol 2            2             1             1             4             1              1
   VISQSPLI  VISQPLI1  2002/06/27  PLI                1             1             1            12             1              1

LIST processing completed
Total Entries 00000004
Return code = 00

Highest RC = 00
```

The JCL to run these different utilities are in the SmartQuest JCL library:

Utility	CICS	MVS
Lists entries on your source file.	VICQJLST	VISQJLST
Delete entries on your source file.	VICQJDEL	VISQJDEL
Produces a diagnostics listing.	VICQJFIL	VISQJFIL

Reorganizing the Source File

As source records are added and deleted to your source files, they can become disorganized due to CI splits. You may also need to increase the size of the source files. You can reorganize the source files or increase their size without losing the data that they currently contain using the three source reorganization utility jobs found in the SmartQuest JCL library.

Note:

If you use the CICS dump viewer, you need to shut down the CICS regions that use the source files or at least have the files deallocated from each of them. It is recommended that you schedule a reorganization for an evening or weekend on a regular basis.

These are the three steps of reorganization:

1. Run job VICQJOSA for CICS or job VISQJOSA for MVS. This job uses VSAM REPRO to copy your source file records to a newly created flat file.

2. Change the CYL parameter values before running this job if you want to increase the source file size. When you are satisfied that step 1 has completed successfully, run job VICQJOSB for CICS or VISQJOSB for MVS. This job does a DELETE and then a DEFINE for the source file VSAM cluster. The second step in this job uses REPRO again to restore your source records from the flat file created in step 1 to the newly defined VSAM source file.

3. When you are satisfied that step 2 has been executed correctly, run job VICQJOSC for CICS or VISQJOSC for MVS, which deletes the flat file created in step 1.

Using the Offline Delete Utility

An offline utility is provided to delete dumps without causing a delay to your dump capture startup. The JCL job is in member VISQJATD. This job can be found in the SmartQuest JCL library and includes an optional parameter to override the number of auto delete days that is currently stored in the SmartQuest PROFILE file.

VISQJATD - MVS

To change the AUTODAYS parameter to 7 days, follow this step:

- Type `,PARM='CONFIG=SQCPUA,AUTODAYS=007'` and press Enter.

To use the current value on the AUTODAYS parameter in the PROFILE file, follow this step:

- Type `,PARM='CONFIG=SQCPUB'` and press Enter.

```
//ASG      JOB (),'ASG-SMARTQUEST',NOTIFY=&SYSUID
//*
//*
//*
//*********************************************************************
//* ASG, INC.             ASG-SMARTQUEST                              *
//*                                                                   *
//* MEMBER NAME: VISQJATD                                             *
//*                                                                   *
//* DESCRIPTION: AUTO DELETE UTILITY                                  *
//*                                                                   *
//* INSTRUCTIONS:                                                     *
//*                                                                   *
//* 1.  CHECK PARAMETER VALUES BELOW                                  *
//* 2.  CHANGE XXXXXXXX TO THE CONFIGURATION TO BE PROCESSED          *
//*                                                                   *
//* NOTE:  THERE IS AN OPTIONAL PARAMETER TO OVERRIDE THE NUMBER      *
//*        OF AUTO DELETE DAYS STORED BY THE CUSTOMIZATION PROCESS    *
//*        IN THE SQCONFIG FILE.                                      *
//*                                                                   *
//*        USE AUTODAYS=NNN (NOTE: 10 DAYS HAS TO BE DENOTED AS 010)  *
//*                          ====  ==      === == ==            ===   *
//*                                                                   *
//*        EXAMPLE:  ,PARM='CONFIG=SQCPUA,AUTODAYS=007'               *
//*                                                                   *
//*                   CONFIGURATION SmartQuest CPU-A                  *
//*                   OVERRIDE AUTODAYS with 7                        *
//*                                                                   *
//*        EXAMPLE:  ,PARM='CONFIG=SQCPUB'                            *
//*                                                                   *
//*                   CONFIGURATION SmartQuest CPU-B                  *
//*                   AUTODAYS value will be retrieved from SQCONFIG  *
//*                                                                   *
//*********************************************************************
//*
//         SET  ASG='ASG'
//         SET  CENTER='VIACENXX'
//         SET  SYSDA='SYSDA'
```

```
//         SET  SYSOUT='*'
//STEP1    EXEC PGM=VISQUATD,REGION=0M,PARM='CONFIG=XXXXXXXX'
//STEPLIB  DD  DISP=SHR,DSN=&ASG..&CENTER..LOADLIB
//SYSABEND DD  SYSOUT=&SYSOUT
//SQPROFIL DD  DISP=SHR,DSN=&ASG..&CENTER..SQCONFIG
//SQPRINT  DD  SYSOUT=&SYSOUT,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=17024)
```

Automated Dump Delete Facility Activity Report

Figure 56 and Figure 57 are samples of the report that is generated from running VISQJATD.

Figure 56 • Sample Dump Delete Facility Activity Report

```
                                        ASG-SmartQuest 7.0
                                Automated Dump Delete Facility Activity Report
 CONFIG=SQ70L001        AUTODAYS=010              Date: 06/14/2002        Time: 10:35:08       Page: 0000001

-----------------------------------------------------------------------------------------------------------
-
                                          ******************    ***********************************
                                        *********************  ************************************
                                       *****           *****  ******              *****
                                      *****            *****  ******              *****
                                     *********************  *****************   *****     ********
                                    *********************   *****************  *****     ********
                                   *****            *****                ******  *****          ***
                                  *****            *****                ******  *****          ***
                                 *****           ************************  ******************
                                *****           ************************    ******************


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                                   A proprietary product of ASG, Inc.  Use restricted to authorized licencees.

                                          Visit the ASG Support Web Site at www.asg.com
```

Figure 57 • Sample Automated Dump Delete Facility Activity Report

```
                                        ASG-SmartQuest 7.0
                                Automated Dump Delete Facility Activity Report
 CONFIG=SQ70L001        AUTODAYS=010              Date: 06/14/2002        Time: 10:35:08       Page: 0000002
-----------------------------------------------------------------------------------------------------------
 Processing DUMP INDEX DSN=VIASOFT.SQ70L001.DUMPDIR

-   DATE          TIME      JOB/APPL   TRAN ABND   PROGRAM          DELETED DUMP DATA SET NAME
 ==========     ========    ========   ==== ====   ========    ============================================
 2001-11-15   11:04:06   VIAJ0001      S0C7   VIAPGM01    VIASOFT.VIASQ70.D0000949
 2001-11-15   12:23:06   VIAJ0002      S0C7   VIAPGM01    VIASOFT.VIASQ70.D0000950
 2001-11-15   12:29:43   VIAJ0003      S0C1   VIAPGM02    VIASOFT.VIASQ70.D0000951
 2001-11-16   01:03:22   VIAJ0004      4044   VIAPGM03    VIASOFT.VIASQ70.D0000952


-ASG-SmartQuest Auto Delete processing has completed.
```

7 Maintenance Problems or Questions

This chapter provides information regarding SmartQuest maintenance problems and contains these sections:

If you have questions or problems:

1. Gather all applicable JCL listings, output listings, online log file listings, screen messages or screen prints, and diagnostic information.
2. Within the U.S.A., contact ASG Customer Support.

Applying Interim Modifications

Periodic product updates will be provided between major releases. Modifications may also be received from ASG Customer Support, as needed. The installation instructions are located in a text file on the distribution media included with the Service Pack. If you have any problems with the Service Pack, contact ASG Customer Support.

CICS PTF Display Facility

The PTF Display facility allows you to verify which PTFs have been applied. You can display on any ISPF screen by executing the VIASVPTF CLIST. This CLIST is executed by entering this statement:

```
TSO VIASVPTF PROD(pprr)
```

where *pp* is the product code and *rr* is the release number. For example, for SmartQuest 7.0, you would type `sq70` for MVS or `cq70` for CICS. The ASG PTF Display screen, shown in Figure 58, displays.

Figure 58 • ASG PTF Display Screen

```
ASG-SmartQuest R7.0 ------ ASG PTF Display --------  ROW 1 TO 2 OF 2
===>                                                 SCROLL ===> CSR

Userid: ASG
Prefix: ASG

SQ070Txx SQ070Txx
************************** BOTTOM OF DATA ************************
```

Appendix A
CICS Definitions

The VISQDC*xx* members define SmartQuest resources to CICS. This appendix contains the definitions for CICS Version 4.1 through 6.2.

VISQDC41 - Definitions for CICS Version 4.1

```
* RDO definitions for CICS 4.1.0.
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
```

```
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQEXIT) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN41) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX41) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       TCLASS(NO) DTIMOUT(NO) INDOUBT(BACKOUT) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN41) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       TCLASS(NO) DTIMOUT(NO) INDOUBT(BACKOUT) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       TCLASS(NO) DTIMOUT(NO) INDOUBT(BACKOUT) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       TCLASS(NO) DTIMOUT(NO) INDOUBT(BACKOUT) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

VISQDC51 - Definitions for CICS Version 5.1 (Transaction Server for OS/390 Release 1.1)

```
* RDO definitions for CICS 5.1.0.
* Otherwise known as CICS Transaction Server for OS/390 release 1
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQEXIT) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN51) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX51) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN51) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

VISQDC52 - Definitions for CICS Version 5.2 (Transaction Server for OS/390 Release 1.2)

```
* RDO definitions for CICS 5.2.0.
* Otherwise known as CICS Transaction Server for OS/390 release 1.2
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQEXIT) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN52) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX52) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN52) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

VISQDC53 - Definitions for CICS Version 5.3 (Transaction Server for OS/390 Release 1.3)

```
* RDO definitions for CICS 5.3.0.
* Otherwise known as CICS Transaction Server for OS/390 release 1.3
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
```

```
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQEXIT) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN53) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX53) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN53) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
```

```
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

VISQDC61 - Definitions for CICS Version 6.1 (Transaction Server for OS/390 Release 2.1)

```
* RDO definitions for CICS 6.1.0.
* Otherwise known as CICS Transaction Server for OS/390 release 2.1
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMABHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
```

```
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN61) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
```

```
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX61) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN61) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

VISQDC62 - Definitions for CICS Version 6.2 (Transaction Server for OS/390 Release 2.2)

```
* RDO definitions for CICS 6.2.0.
* Otherwise known as CICS Transaction Server for OS/390 release 2.2
* For use with DFHCSDUP
* Check file names and modify them if necessary.
*
DEFINE FILE(HSHELP) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQVIEWHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCICAHP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMMCHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(MVCODES1) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQMABHLP)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) BROWSE(YES)
       READ(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSUPROFL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQUPROF)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(YES) BROWSE(YES)
       DELETE(YES) READ(YES) UPDATE(YES) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE FILE(HSPROFIL) GROUP(SQCICS) DSNAME(?HLQ.VIASQ70.SQCONFIG)
       LSRPOOLID(NONE) DSNSHARING(ALLREQS) STRINGS(3) STATUS(ENABLED)
       OPENTIME(FIRSTREF) DISPOSITION(SHARE) DATABUFFERS(4)
       INDEXBUFFERS(3) TABLE(NO) RECORDFORMAT(V) ADD(NO) BROWSE(YES)
       DELETE(NO) READ(YES) UPDATE(NO) JOURNAL(NO) JNLREAD(NONE)
       JNLSYNCREAD(NO) JNLUPDATE(NO) JNLADD(NONE) JNLSYNCWRITE(NO)
       RECOVERY(NONE) FWDRECOVLOG(NO) BACKUPTYPE(STATIC)
DEFINE MAPSET(VICQMAP) GROUP(SQCICS)
       RESIDENT(NO) USAGE(NORMAL) USELPACOPY(NO) STATUS(ENABLED)
DEFINE PROGRAM(DFHTR410) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR510) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
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DEFINE PROGRAM(DFHTR520) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR530) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR610) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(DFHTR620) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQUDSN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVCSF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMCTM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQC3MD) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMN62) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQVNTF) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCRSM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCSTR) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQMUPN) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQCX62) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(BELOW)
       EXECKEY(CICS) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSASM) GROUP(SQCICS)
       LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSCOB) GROUP(SQCICS)
       LANGUAGE(COBOL) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
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       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE PROGRAM(VICQSPLI) GROUP(SQCICS)
       LANGUAGE(PLI) RELOAD(NO) RESIDENT(NO) USAGE(NORMAL)
       USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
       EXECKEY(USER) EXECUTIONSET(FULLAPI)
DEFINE TRANSACTION(IQDS) GROUP(SQCICS)
       PROGRAM(VICQVCSF) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQMT) GROUP(SQCICS)
       PROGRAM(VICQMN62) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQST) GROUP(SQCICS)
       PROGRAM(VICQCSTR) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(BELOW) TASKDATAKEY(CICS) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(NO)
DEFINE TRANSACTION(IQTS) GROUP(SQCICS)
       PROGRAM(VICQSASM) TWASIZE(0) PROFILE(DFHCICST) STATUS(ENABLED)
       TASKDATALOC(ANY) TASKDATAKEY(USER) DYNAMIC(NO) PRIORITY(1)
       DTIMOUT(NO) RESTART(NO) SPURGE(NO)
       TPURGE(NO) DUMP(YES) TRACE(YES) RESSEC(NO) CMDSEC(NO)
       ISOLATE(YES)
```

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