The Mainframe Software Partner
For The Next 50 Years

Hiperstation

Automated Testing Vehicle (ATV) Manager User Guide

Release 16.05

Please direct questions about Hiperstation
or comments on this document to:

Compuware Customer Support

https://go.compuware.com

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Introduction

Compuware is committed to providing user-friendly documentation in a variety of electronic formats. This section describes the available formats and how to access them, provides an overview of this manual, and describes the conventions used within, and the resources available to help you.

Accessing Hiperstation Documentation

The Hiperstation documentation is available on the Compuware Go (FrontLine) customer support website at **http://go.compuware.com**. *Release Notes* are provided in HTML format and manuals in Portable Document Format (PDF):

- ***Release Notes*** — Provides recent information for the Hiperstation product. In this file, you can quickly access system requirements, technical notes, customer support contact information, and a list of the new features available in the release. The *Release Notes* may be updated throughout the life cycle of a release with the most current version located on FrontLine for easy access to the latest product information.
- ***Hiperstation Installation and Configuration Guide*** — Provides installation and configuration procedures.
- ***Hiperstation for VTAM User Guide*** — Explains how to use Hiperstation for VTAM to test 3270 and LU0 applications.
- ***Hiperstation for WebSphere MQ User Guide***— Explains how to use Hiperstation for WebSphere MQ to test WebSphere MQ applications.
- ***Hiperstation for Mainframe Servers User Guide*** — Explains how to use Hiperstation for Mainframe Servers to test APPC and TCP/IP applications.
- ***Hiperstation Auditor User Guide*** — Explains how to use the Hiperstation Archive Function.
- ***Hiperstation Automated Testing Vehicle (ATV) Manager User Guide*** — Explains how to use the Hiperstation ATV Manager to manage your testing environment and test cases.
- ***Hiperstation Messages and Codes*** — Explains the messages and codes that Hiperstation produces.
- ***Hiperstation Scripting Reference*** — Introduces advanced script editing concepts and provides reference information for technical users.
- ***Hiperstation Reference Summary*** — Summarizes the commands used in Hiperstation for VTAM's Domain Traveler and Session Demo features.
- ***Master Index*** — This file contains an indexed list of the contents of the entire manual set. To use this file, all of the book files and the master index file must be located in the same directory. Open the master index file and search for the desired term. Clicking on a search result will open the appropriate book at the desired page.

View and print PDF files with Adobe Reader. Download a free copy of the latest version of the reader from Adobe's web site: **http://www.adobe.com**.

Note: With a few minor exceptions, PDF files comply with the requirements of section 508 of the Rehabilitation Act of 1973. Refer to the Accessibility preface in any of the user guides for information.

For your convenience, Compuware also provides the Hiperstation manuals in the following formats:

- Hypertext Markup Language (HTML)

Access these formats on FrontLine, Compuware's Customer Support Web site at **http://frontline.compuware.com**.

1. Log-in.
2. Select the desired product.
3. Click the Documentation link on the left selection bar.
4. Select the desired release. FrontLine presents a documentation index containing links to each of the product's manuals in all of the available formats.

HTML Files

View HTML files with any standard Web browser. Simply click the HTML link on the selected FrontLine documentation page.

Note: As you review the HTML content, you may encounter the known issue regarding screens and other graphic figures in which the image may be cropped along the left or bottom edge.

Using this Manual

This guide teaches you how to use Hiperstation for testing mainframe business applications. It contains the following chapters:

- **Chapter 1, "Product Overview"** — Introduces the Automated Testing Vehicle (ATV) Manager.
- **Chapter 2, "Create an Automated Testing Vehicle (ATV)"** — Describes how to get started using the ATV Manager.
- **Chapter 3, "ATV Configuration Settings"** — Describes how to change the default configuration settings for the Automated Testing Vehicle Manager.
- **Chapter 4, "Test Assets"** — Describes how to create and manage your test assets including ATV Level and Function Level Assets.
- **Chapter 5, "Create, Maintain, and Delete 3270 Test Scripts"** — Describes how to create and manage your test scripts.
- **Chapter 6, "Script Processors"** — Provides an overview of the Hiperstation script processors. For complete details about using the script processors, see the online help or the *Hiperstation for VTAM User Guide*.
- **Chapter 7, "Create, Execute, and Maintain Test Cases"** — Describes how to create, use, and manage your test cases.
- **Chapter 8, "Build, Execute, and Delete Playlists"** — Describes how to create and use your playlists.
- **Chapter 9, "Execute All Test Cases within this ATV"** — Describes how to execute, at one time, all of the test cases within an ATV.
- **Chapter 10, "Notify Users of ATV Test Results"** — Describes how to send automatic notification of ATV test results to specific users.
- **Chapter 11, "Test Execution Reports"** — Provides a short sample of the ATV Manager reports: Detail Report, Job Log Report, and Summary Report.

- **Chapter 12, "ATV Profile Defaults"** — Provides information on how to edit your Automated Testing Vehicle profile defaults.
- **Appendix A, "Customer Support Diagnostics"** — How to generate a Customer Support Diagnostic Report that lists all PTFs applied to your installation.

Notation Conventions

This document uses the following notations to describe Hiperstation screens and the information you enter on those screens:

- Technical revisions made to this document are indicated by revision bars in the left margin, as shown here.
- Sample screens generally show only the information appropriate to the accompanying text, for example:

```
ZOOM:PF23 ---------------------- Hiperstation ------------------- LINE 1 OF 24
 COMMAND ===> record                                          SCROLL ===> HALF
 Record OFF  Play OFF  Journal OFF  Compare Log OFF  autoDoc OFF
 ***USR2312   WELCOME TO CICS/MVS  *** 10:11:42
```

- Blank lines or standard footings, as shown below, are usually omitted from screen illustrations.

```
Press ENTER to begin recording,  Use END to cancel setup.
```

- Information you enter is printed in **boldface**.
- Words defined within paragraphs are *italicized*.
- The phrase "select an option" refers to typing a slash next to one of the presented options and pressing Enter.

Accessibility

In accordance with section 508 of the Rehabilitation Act of 1973, Compuware has committed to making its products and services easier to use for everyone including people with disabilities.

Hiperstation is a mainframe application that runs on IBM's OS/390 and z/OS operating systems. It has an ISPF interface that is accessed with IBM 327x-type terminals or with 3270 terminal emulator software. Since the mainframe environment offers few accessibility features, Compuware has focused its attention, with regard to accessibility, on 3270 terminal emulator software running on personal computers (PCs) with Microsoft Windows 2000 or more current. Hiperstation supports, with a few exceptions, Microsoft Windows accessibility features and Window-based Assistive Technology (AT) software and devices, such as Braille devices, screen readers, magnifiers, etc.

Note: Hiperstation is intended for use by mainframe software developers, programmers, and testers. Much of the input and output used or produced by Hiperstation, such as Job Control Language (JCL) and hexadecimal contents or dumps of memory, are not easily understood by the general public. Unfortunately, as in the case of hexadecimal dumps, data in these formats can be confusing to screen

readers and therefore confusing to the people who use them. Effective use of this application requires the specialized knowledge of a mainframe systems software developer or programmer.

Hiperstation accessibility was evaluated using:

- Freedom Scientifics' JAWS screen reader
- Attachmate Corporation's myExtra Presentation Services tn3270 emulator
- Microsoft's Windows accessibility features
- Adobe Reader using the "Read Out Loud" function

This evaluation not only identified accessibility exceptions, but revealed emulator and screen reader compatibility issues that in some cases can be remedied through appropriate configuration.

Installing Windows Accessibility Features

Microsoft Windows operating systems offer several accessibility features to aid individuals who have difficulty typing or using a mouse, who are blind or have low vision, or who are deaf or are hard-of-hearing. Install these features during setup or later using the Windows installation disks. Refer to the "accessibility" topics in the Windows Help system for information on installing and using these features. Visit the Microsoft Web site, **http://www.microsoft.com/enable**, for additional information and tutorials.

Selecting Font and Font Size

Microsoft Windows and emulator software packages offer font and font size settings to accommodate users with low vision. The emulator software's tool bars and dialog boxes typically use the font specified in the operating system, while the terminal presentation uses the font and font size specified in the emulator. To change the font or font size:

- Presented on the toolbars and dialog boxes, refer to the Windows Help system.
- Presented in the terminal window, refer to the emulator's documentation or Help.

Some screen readers recommend certain fonts and font sizes for compatibility. For example, Freedom Scientifics recommends setting the font to a common or "plain" font such as Lucida, Courier, or Times New Roman, and setting the font size to 10 points or smaller. Refer to the screen reader's documentation or Help for these recommendations.

Changing Color and Contrast

Color and contrast settings can assist users with low vision. ISPF and most emulator software packages offer color and contrast settings. If you are accessing Hiperstation with a terminal, use ISPF settings. Otherwise, adjust the color and contrast in the emulator software. Refer to ISPF Help or the emulator's documentation or Help.

Setting Cursor Blink Rate

The blink rate of the cursor can affect users with photosensitive epilepsy. Additionally, some screen readers require a specific blink rate. Some readers automatically adjust the blink rate while others expect you to adjust the rate. Refer to:

- The Microsoft Windows Help to find out how to set the cursor blink rate.
- The screen reader's documentation or Help to find out the recommended blink rate.

Using Keyboard Shortcuts

Keyboard access to application functions support users who cannot use a mouse.

Microsoft Windows provides keyboard access to all functions within the operating system, such as:

- Displaying or hiding the Windows Start Menu
- Showing the Desktop
- Minimizing all windows
- Searching for files
- Accessing the help system
- Controlling the behavior of the Windows accessibility features, for example, toggling the listening status to the microphone, or cycling focus backward and forward.

Most Windows-based applications also provide keyboard access to their functions. The combination of keys required to execute a given function is called a keyboard shortcut. Refer to the "Keyboard Shortcuts" topics in the Windows Help system for a complete list of Windows shortcuts. For a list of the shortcuts that are available in the emulator software or any third-party accessibility tool, such as the JAWS screen reader, refer to the software's documentation or Help.

Accessibility Exceptions Work Arounds

During Hiperstation accessibility evaluation, some exceptions were encountered where some accessibility features or AT were not fully supported. The causes of and solutions for these exceptions are currently under investigation by Compuware Corporation.

Known Exceptions

Accessibility exceptions include:

- Function Key (F Key) information at the bottom of the screen is not read by the screen reader on some screens. This is believed to be caused by an external interface. See "Solutions" for a viable work-around.
- Some system error and warning messages are not read by the screen reader when issued. Believed to be caused by an external interface. See "Solutions" for a viable work-around.
- Some pop-up dialog boxes or windows do not capture exclusive focus and are not read correctly by the screen reader. This is believed to be caused by an external interface. No known solution is currently available.
- System error and warning messages do not capture visual focus for the screen magnifier. This is believed to be caused by an external interface. No known solution is currently available.
- Some entry and display fields lack individual labels. When entry fields are accessed using the Tab key, the entire individual line is read.
- Current Web-based reports are not easily navigated using the keyboard and lack table element coordinate tags. Additionally, some of these reports contain color-coded elements — for example, the color of some elements conveys meaning.

Solutions

When the screen reader fails to read the F Key information upon entry to a new screen, do one of the following:

- Use the arrow keys to move the cursor down to the lines with the F Key information. The screen reader reads each line as the cursor is placed on it.
- Press the Page Up key for the screen reader to reread the entire screen.

When the screen reader fails to read an error or warning message, an audio alert occurs if this feature is enabled on your system. Press the Up key to place the cursor on the line containing the error message, usually on the top or title line. The screen reader reads the line and its error message individually.

Getting Help

Compuware provides a variety of support resources to make it easy for you to find the information you need.

FrontLine Support Web Site

You can access online information for Compuware products via our FrontLine support site at http://frontline.compuware.com.

FrontLine provides access to critical information about your Compuware products. You can review frequently asked questions, read or download documentation, access product fixes, or e-mail your questions or comments. The first time you access FrontLine, you are required to register and obtain a password. Registration is free.

Compuware now offers User Communities, online forums to collaborate, network, and exchange best practices with other Compuware solution users worldwide. Go to **http://groups.compuware.com** to join.

Contacting Customer Support

If you have difficulty with Hiperstation, refer to the information in the appropriate user's guide for help or consult with the Hiperstation technical representative at your site. If the problem persists, please obtain the following information before calling Compuware:

1. The release number of the product being used
2. The release number of the transaction processing utility (such as CICS, IMS/DC, or ISPF) being used
3. The operating system being used to help determine operating system dependencies
4. If an abend occurs, note the displacement and the module in which it occurs, and if possible, obtain a copy of the system dump.
5. The sequence of issued transactions and/or commands that resulted in the problem and the data type involved.

Phone

- USA and Canada: 1-800-538-7822 or 1-313-227-5444.
- All other countries: Contact your local Compuware office. Contact information is available at **http://frontline.compuware.com**.

Web

You can report issues via the **Report and Track Calls** tab on the FrontLine home page.

Note: Please report all high-priority issues by phone.

Mail

Hiperstation Customer Support
Compuware Corporation
One Campus Martius
Detroit, MI 48226-5099

Corporate Web Site

To access Compuware's site on the Web, go to **http://www.compuware.com**.

The Compuware site provides a variety of product and support information.

Note: Hiperstation provides a report that may help Customer Support diagnose an issue. See Appendix A, "Customer Support Diagnostics" for details. Although it is not required, generating the report before calling may expedite diagnosis.

Chapter 1.
Product Overview

Introducing the Automated Testing Vehicle (ATV) Manager

An ATV, or vehicle, is a project environment that contains a number of individual test cases that collectively address a defined regression or performance testing requirement. By collecting the elements needed to accomplish a testing requirement into a vehicle it simplifies the management of that test project.

The ATV Manager employs a test case centric approach to address the requirements of a test project. Individual test cases are defined to accomplish a single, well defined testing goal. The test case contains the information needed to achieve the stated testing goal, including data instantiation, environment setup, exercising the application being tested, and success or failure determination at the conclusion of test case execution. Utilizing this approach, a set of test cases are used to address a wider scope requirement than an individual test case. For example, three individual test cases for the following three requirements, 1) Test ISPF Browse of a PDS member, 2) Test ISPF Browse of a PDSE member, and 3) Test ISPF Browse of a sequential dataset, taken together address the wider scope requirement to test the ISPF Browse function.

A project requirement for a complete regression or performance test for an application can be addressed using this paradigm. Running all of the test cases within a vehicle constitutes the full regression or performance test.

The ATV Manager has the ability to distribute test run reports via email to a defined set of recipients. Individual test case failure notices can be sent to the person or persons tasked with maintaining the failing test case. This proactive information delivery can be used to initiate the problem resolution process as soon as possible.

Care should be taken when defining the requirement scope to be addressed at the vehicle level. As the ATV Manager nomenclature suggests, a vehicle should be tasked with testing an application, though it is still up to the user to select the best scope. For example, you could consider a General Ledger an application, and Accounts Receivable as a function within the General Ledger application, or you could view Accounts Receivable as one application in your General Ledger system. Some considerations in defining the testing scope for your vehicles include:

1. Reusability of assets. All scripts and test assets, the building blocks for test cases, are shareable at the vehicle level.
2. Personnel using ATVs. Hiperstation's facility for securing access to ATV data is done at the vehicle level.
3. Report distribution. Test activity reporting and report distribution is performed via test run requests that range in scope from an individual test case to a single vehicle. If separate test or development teams maintain different areas within an application, it could be desirable to use separate vehicles along the same delineation.
4. Your application development process. Entire vehicles can be cloned using the copy function. This is useful for setting up a new vehicle to test a new development version of an application. Changes to support the application under development can be applied to the new vehicle while leaving the old vehicle intact to continue testing the older, production version of the application.

The ATV Manager provides a system in which you can compile the elements of your automated tests to organize and manage their use. The ATV Manager then reports on the execution of tests and can e-mail the reports to defined recipients.

The ATV Manager will build, execute, and manage regression and performance automated test vehicles. The ATV Manager performs the following tasks:

- Incorporate test assets and scripts within the ATV and control access to these elements.
- Associate test assets including Hiperstation scripts to create test cases.
- Execute tests by using the assets and scripts from the test cases.
- Allow a single Pass/Fail condition to be determined for a test case.
- Create test case groups to execute regression or performance testing of an element of the target application through a single request.
- Execute all test cases within an ATV to perform complete regression or performance testing of the target application through a single request.
- Collect the Pass/Fail condition for all test cases into a single test execution report.
- Distribute the test execution report to e-mail addresses as specified for the test execution.
- Allow viewing of individual test case reports.
- Assist in script repair using the test execution results.
- Assist in the dubbing of new scripts, when necessary, within the context of the test case.
- Allow the duplication of an entire ATV to support multiple versions of a target application.
- Allow for maintenance of test assets to keep them current.

Getting Started with the ATV Manager

The ATV Manager is a system for building, running and maintaining Automated Testing Vehicles (ATVs). It is a test environment that can be scaled to a single user with a few test cases or be shared by many testers and developers with hundreds or thousands of test cases. The ATV Manager helps to:

- Organize and manage elements to accomplish a set of tests over an extended period of time.
- Run batches of tests as needed.
- Report the success/failure of all tests in test runs.
- Assist test developers in upgrading test elements as the application being tested evolves.
- Ease implementing automated testing into your maintenance processes (production).

Create a Simple ATV

Listed below are the general steps you need to follow to create a small scale ATV for your own use including building and running some test cases to get familiar with the ATV Manager's capabilities. For specific information on how to perform the steps listed below, refer to the following chapters in this guide.

1. Define an ATV master index file using member HSATVJCL in the Hiperstation INSTALL dataset.
2. Create a Hiperstation User Profile, using option 0, (or use your current profile, if you have one). This will be used to load the ATV profile when you first create an ATV.

   Creating a profile is described in the *Hiperstation Installation and Configuration Guide*.
3. Set your ATV Master Index file parameter in that Hiperstation User profile. Make sure there is a valid job card in that profile also. You can set other Test Vehicle defaults in the Hiperstation profile if you wish.
4. Start Hiperstation for VTAM and select function 4, Hiperstation ATV Manager - Automated Testing Vehicle Manager.

   Use PF1 or the HELP command to view the help panels here and throughout the ATV Manager.
5. Use the CREATE command to create an ATV.

   This foreground process will build an ATV database file, asset file, script file and profile file. (Use your own profile or the profile created above as a model for the ATV Manager to copy.) See **Chapter 2, "Create an Automated Testing Vehicle (ATV)"** for details.
6. Open your new vehicle.
7. Select Test Script. Import one of your simple Hiperstation scripts that you know will play.
8. Select Test Case. Create a new test case and then use the "O" line command to open this test case.
9. Use the "R" line command to insert a replay (a replay will invoke a Hiperstation unattended replay during an ATV test run).

   This will show a list of scripts that have been imported into this ATV.
10. Use the "S" line command to select your script.
11. Replay session settings are now displayed. The Domain Destination, Logmode, and logon data are pre-filled with information retrieved from the script during Import. Set Compare option to 1 Stop on any compare check.

    Because replays use batch Hiperstation, the "Stop on" compare options do not stop the replay. They do set the return code. This return code can be tested using the Pass/Fail test setting on the replay step.
12. Back out to the Test Case List screen and use the "R" line command to run this test case.
13. Back out to the Automated Testing Vehicle menu and use the 7 Reports option to view the run report list. Use the "S" line command to select your run report.
14. Explore expanding your ATV as follows:
    a. Setting PASS/FAIL conditions to your test cases.
    b. Adding other assets to your vehicle and test cases.
    c. Adding E-mail addresses at the vehicle and/or test case level.

Plan Your ATV Manager Implementation

To plan the ATV Manager implementation in your area, consider the following:

1. Before building tests destined for production, decide how to share your master index file(s).
   – ATVs indexed by a master index can be hidden from view using Hiperstation security settings on your ATVs.

- Normal dataset security rules are enforced for ATV datasets.

2. Create one or more master indexes for your group.
   - Will individual users have their own vehicles for their own testing purposes?

     Users can create their own master indexes, if desired.
   - Will a group of software developers build their application unit test cases in a single ATV, leveraging each other's test assets (test files, test programs, JCL, etc.) as much as possible?

     If so, create a master index this development group will use. At completion of the development project this ATV would become a regression vehicle for the newly developed application.
   - Is security an issue?

     You may find it optimal to create ATV master index files for very small groups of users or for each individual ATV to easily segregate access to vehicles.
   - How large are Master Index Files?

     Master index files can be quite small. They contain one record (approximately 100 bytes) for each ATV created.
   - What permissions need to be set for ATV creators and users?

     Users who will be creating vehicles must have ALTER access to the master index file. Users who will work within a vehicle only need read access to the master index file.
   - How do I give individual users access to more than one index?

     If an individual needs to access more than one index, simply set up multiple profiles, each one addressing a different master index.

Create or Update Hiperstation Profile ATV Manager Default Settings

To create or update your Hiperstation Profile's ATV Manager Default settings:

1. Set the name of your ATV Master Index file.
2. Set the ATV High Level Qualifier. (HLQ).

   This value can be changed during vehicle creation. All vehicle users will create files using this HLQ.
3. Set dataset allocation parameters to fill the expected need.

   Keep in mind that a vehicle will be used as long as its targeted application is being maintained.

Note: See the *Hiperstation Installation and Configuration Guide* for complete instructions on updating your Hiperstation Profile's ATV Manager Default settings.

Chapter 2.
Create an Automated Testing Vehicle (ATV)

This chapter describes the basics of the Automated Testing Vehicle (ATV). It describes how to start the ATV Manager and create a new ATV. You will also learn how to open, copy, or delete an existing ATV. To view or modify an ATV Profile, see the "Hiperstation User Profiles" chapter in the *Hiperstation Installation and Configuration Guide*.

Note: Throughout this and the following chapters, the screen examples will be mostly examples of Regression testing. Where there is a difference on the screens between the two types of testing, the differences will be noted.

Getting Started

1. From the "Hiperstation - Product Menu" (Figure 2-1), type **4** on the Option line and press Enter to select Hiperstation ATV Manager.

Figure 2-1. Hiperstation - Product Menu

```
------------------------ Hiperstation - Product Menu --------------------------
 Option  ===>


  0  Hiperstation Profiles              Set user profiles
  1  Hiperstation for VTAM              VTAM Application Testing
  2  Hiperstation for Mainframe Servers SNA/APPC & HTTP Testing
  3  Hiperstation for WebSphere MQ      WebSphere MQ Message Testing
  4  Hiperstation ATV Manager           Automated Testing Vehicle Manager

      Profile         ===>
      Profile dataset ===>

      Leave Profile blank for selection list
      Leave Profile dataset blank to create new dataset
      Leave both blank to run with no Profile




               See Hiperstation frequently asked questions at:
                        http://frontline.compuware.com

     Copyright (C) 1994, 2015 Compuware Corporation.  All Rights Reserved.
```

The "Automated Testing Vehicle List Screen" appears (Figure 2-2). This screen lists the name of the vehicles along with their assigned test group, the application the test vehicle is testing and a description of the vehicle. If this screen is blank because no automated testing vehicles are available, you must create one to continue.

Figure 2-2. Automated Testing Vehicle List Screen

```
Hiperstation ---------- Automated Testing Vehicle List ---- Row 12 to 17 of 17
Command ===>                                                  Scroll ===> PAGE

Primary commands: Create ATV

Line commands:. . (O)pen, (C)opy, (D)elete

S ATV Name Test Grp Application being tested Description
- -------- -------- ----------------------- ----------------------------------
  PASSWORD          atv userid password     change password for vptst userid
  PERFORM1 DEVTEAM  Bolts 'N Things         Performance Vehicle for the Bolts
  REALTEST TCMS     Attempt to run TCMS case I'm going to attempt to duplicate
  REPORT1           HIPATVRE - Report       Report option of ATV
  TEST1             h10ac054
  TEST2    TSTGRP01 ATV TEST                all facets of atv code
****************************** Bottom of data ********************************
```

2. Select what you want to do:
   - **Create a new automated testing vehicle:** Type **C** (Create ATV) on the command line and press Enter. The “Create Automated Testing Vehicle (ATV) Screen” appears (Figure 2-3). You can create an ATV for regression or performance testing. See the next section, “Creating an ATV” for details.
   - **Open an existing ATV:** Type **O** on the ATV you want to open. The “Automated Testing Vehicle Screen” appears where you can configure, create, maintain, and delete the components of an ATV. See “Opening an Existing Automated Testing Vehicle” on page 2-6 for detailed information.
   - **Copy an existing ATV:** Type **C** on the ATV you want to copy. The “Copy Automated Testing Vehicle Screen” appears where you can specify the name for the new ATV. See “Copying an Automated Testing Vehicle” on page 2-7 for detailed information.
   - **Delete an existing ATV:** Type **D** on the ATV you want to delete. A confirm delete screen will appear. Press Enter to confirm the delete request or END to cancel the delete request. Delete removes the vehicle definition from your master index file and deletes the databases associated with the selected vehicle. See “Deleting an Automated Testing Vehicle” on page 2-9 for detailed information.

Creating an ATV

Creating a new ATV will define and initialize the databases required for your new vehicle.

1. On the “Automated Testing Vehicle List Screen” (Figure 2-2), type **C** (Create) on the command line. The “Create Automated Testing Vehicle (ATV) Screen” appears (Figure 2-3).

Figure 2-3. Create Automated Testing Vehicle (ATV) Screen

```
Hiperstation  ------ Create Automated Testing Vehicle (ATV) -------------------
Command ===>


 Identify new ATV:
  ATV Name . . . . . .
  Application Being Tested

  ATV Description

  ATV type . . . . . 1 1. Regression
                       2. Performance

 Access control settings:
  ATV Owner. . . . . USER2312
  Test Group . . . .
  Restrict access to 1 1. ATV Owner
                       2. Test Group
                       3. Public

 Press ENTER to continue.  Use END to return to ATV screen.
```

On this screen, you can provide information about the ATV and specify who can use it.

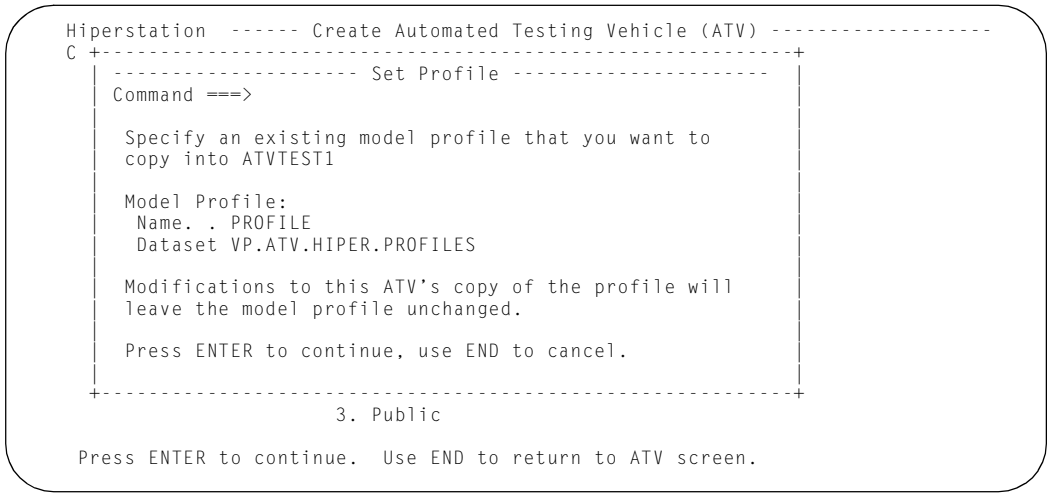
2. Type a name for your new ATV in the **ATV Name** field.
3. In the **Application Being Tested** field, specify the application that you want to test using this ATV.
4. Describe the testing goal, if desired, in the optional **ATV Description** field. A description makes it easier to locate the ATV when you want to use it, especially after you create many ATVs.
5. Select an **ATV Type** to specify the type of testing this ATV will perform. Your choices include **1** (Regression) or **2** (Performance). Based on your selection, some assumptions will be made and, as a result, some fields in later screens will be prefilled. Also, some performance and regression testing capabilities will be enabled based on your selection.
6. Specify who will have access to this ATV (required fields).

   The **ATV Owner** field is automatically prefilled with the currently logged on user ID. The **Test Group** field allows you to specify, as a security entity qualifier, a group of users who can access this ATV. This restricts their access to a subset of the vehicles in your system.
7. The **Restrict access to** field restricts who can access this ATV. Select: **1 (ATV Owner)**, **2 (Test Group)**, or **3 (Public)**. If you select **3. Public**, everyone will be able to access this ATV, and no security check (such as RACF) will be made.

   Note: Security checks are subject to enabling Hiperstation security. See the "Hiperstation Security" chapter in the *Hiperstation Installation and Configuration Guide* for details.
8. Press Enter to continue.

   The "Set Profile Screen" appears (Figure 2-4).

Figure 2-4. Set Profile Screen



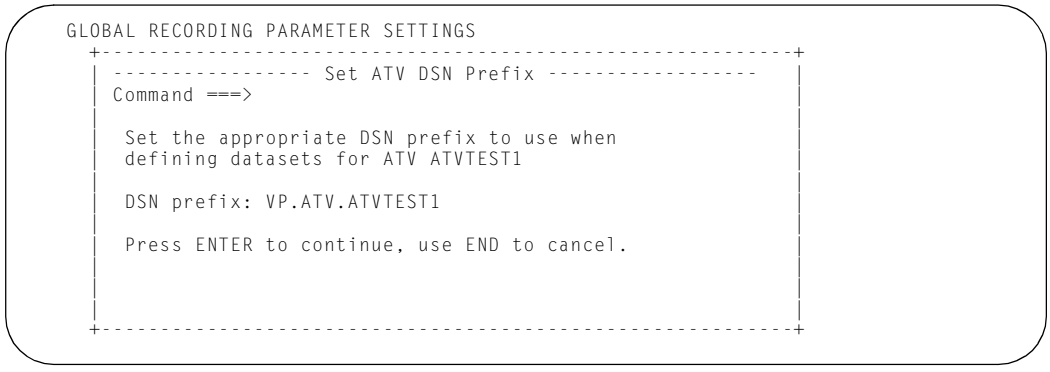
This pop-up screen is where you set the profile you want to use for this ATV.

9. Type a **Name** and **Dataset** name of an existing profile that you want to use for this ATV, and press Enter to continue. This profile is copied into the ATV to provide default values for future screens that you will access as you create your ATV. When you make changes to some of the values on these screens, it will modify the profile being used by the ATV, but will leave the original profile unchanged.

   These fields are prefilled based on the type of vehicle you are creating (Regression or Performance) and profile names set in your Hiperstation Profile ATV Manager settings. You can specify another valid profile member and dataset to which you have access.

   The "Set ATV DSN Prefix Screen" appears (Figure 2-5).

Figure 2-5. Set ATV DSN Prefix Screen



10. The **DSN prefix** is prefilled based on the information you provided in the previous screens and your Hiperstation Profile ATV Manager settings. You can change the prefix to any value, but you must ensure that all users of the ATV who will change or run the ATV have authority to create datasets with that high level qualifier (HLQ). Users who will only view reports will only need read access to these datasets.
11. Press Enter to continue.

    The "Allocate ATV 3270 Script File Screen" appears (Figure 2-6).

Figure 2-6. Allocate ATV 3270 Script File Screen

```
Hiperstation ----------- Allocate ATV 3270 Script File ------------------------
Command ===>

Press ENTER to allocate the dataset, or CANCEL to return.

Dataset name: VP.ATV.ATVTEST1.SCRIPTS

  Management class . . .             (Blank for default management class)
  Storage class  . . . .             (Blank for default storage class)
   Volume serial . . . .             (Blank for system default volume)
   Device type . . . . .             (Generic unit or device address)
  Data class . . . . . .             (Blank for default data class)
   Space units . . . . . CYLS        (BLKS, TRKS, CYLS, KB, MB, or BYTES)
   Primary quantity  . . 5           (In above units)
   Secondary quantity  . 15          (In above units)
```

This screen is where you set the script file specifications for this ATV. The Dataset name is prefilled based on your entries from previous screens and cannot be changed on this screen.

a. Enter a **Management class**, **Storage class**, and **Volume serial** number or leave these fields blank to accept the defaults for these fields.

b. Enter a generic unit or device address in the **Device type** field, if desired.

c. Enter a **Data Class** or leave blank for the default data class.

d. Enter the **Space units** and **Primary** and **Secondary** quantities. Allowed **Space unit** types include BLKS, TRKS, CYLS, KB, MB, or BYTES. The primary and secondary quantities are set in the specified space units.

12. Press Enter to allocate the dataset.

    The "Allocate ATV Database Screen" appears (Figure 2-7).

Figure 2-7. Allocate ATV Database Screen

```
Hiperstation ------------ Allocate ATV Database -------------------------------
Command ===>

Press ENTER to allocate the dataset, or CANCEL to return.

Cluster name: VP.ATV.ATVTEST1.ATVDBASE

 SMS Class information:
  Management class . . . ________    (Blank for default management class)
  Storage class  . . . . ________    (Blank for default storage class)
  Data class . . . . . . ________    (Blank for default data class)

 Data component space allocation:
   Space units . . . . . CLYS__      (TRKS, CYLS, KB, or MB)
   Primary quantity  . . 5_____      (In above units)
   Secondary quantity  . 10____      (In above units)

 Index component space allocation:
   Space units . . . . . CYLS__      (TRKS, CYLS, KB, or MB)
   Primary quantity  . . 5_____      (In above units)
   Secondary quantity  . 10____      (In above units)
```

On this screen you will set the SMS class and space allocation information for your ATV database. The dataset name is prefilled based on your entries from previous screens and cannot be changed on this screen.

a. **SMS Class information** includes **Management class**, **Storage class**, and **Data class**. Leave these fields blank to accept the defaults or enter specific information, if desired.

b. **Data component space allocation** and **Index component space allocation** includes **Space units**, **Primary quantity**, and **Secondary quantity**. These fields are prefilled with defaults set in your Hiperstation Profile ATV Manager settings. Allowed Space unit types include TRKS, CYLS, KB, or MB. The primary and secondary quantities are set in the specified space units. Accept the defaults or make changes, if desired.

13. Press Enter to allocate the database. The "Allocate ATV Assets Dataset Screen" appears (Figure 2-8).

Figure 2-8. Allocate ATV Assets Dataset Screen

```
Hiperstation --------- Allocate ATV Assets Dataset ----------------------------
Command ===>

Press ENTER to allocate the dataset, or CANCEL to return.

Cluster name: VP.ATV.ATVTEST1.ASSETS

 SMS Class information:
  Management class . . . ________    (Blank for default management class)
  Storage class  . . . . ________    (Blank for default storage class)
  Data class . . . . . . ________    (Blank for default data class)

 Data component space allocation:
   Space units . . . . . CYLS__      (TRKS, CYLS, KB, MB, or RECS)
   Primary quantity  . . 5_________  (In above units)
   Secondary quantity  . 10________  (In above units)

 Index component space allocation:
   Space units . . . . . CYLS__      (TRKS, CYLS, KB, MB, or RECS)
   Primary quantity  . . 5_________  (In above units)
   Secondary quantity  . 10________  (In above units)
```

a. Enter a **Management class**, **Storage class**, and **Data class** or leave these fields blank to accept the defaults for these fields.

b. The **Data Component space allocation** and **Index component space allocation** fields are prefilled. You can make changes, if desired.

14. Press Enter to allocate the dataset. You will return to the "Automated Testing Vehicle List Screen" (Figure 2-2 on page 2-2). The ATV you just created will now appear in the ATV list.

Opening an Existing Automated Testing Vehicle

You can open an existing ATV using the **O** line command.

1. Type **O** next to the ATV you want to open. The "Automated Testing Vehicle Screen" appears (Figure 2-9).

Figure 2-9. Automated Testing Vehicle Screen

```
Hiperstation ------------- Automated Testing Vehicle --------------------------
Option  ===>

 ATV name. . ATVTEST3        Application being tested Hiperstation
 ATV type. . Regression
 Description Hiperstation atv test

   0 ATV Settings      Configuration settings for ATV execution
   1 Test Assets       Create, maintain, delete assets
   2 Test Scripts      Import, maintain, delete 3270 scripts
   3 Test Cases        Create, execute, maintain test cases
   4 Playlists         Build, execute, delete sets of test cases
   5 Run Vehicle       Execute all test cases within this ATV
   6 Email list        Specify contacts to receive test resultS via email
   7 Reports           View test execution reports

 Enter selection or use END to return to ATV list screen.
```

The **ATV name**, **ATV type**, **Description**, and **Application being tested** fields identify the ATV and are prefilled based on information from the previous screen. If you want to select a different ATV, return to the previous screen and make another selection.

2. From this screen you can choose what you want to do with this ATV. Select one of the following:
   - Change the configuration settings and set substitution symbols — see Chapter 3, "ATV Configuration Settings" for information on how to update your configuration settings or set substitution symbols. Select option **0 ATV Settings**.
   - Create, maintain, and delete assets — see Chapter 4, "Test Assets" for information on how to manage your assets. Select option **1 Test Assets**.
   - Import, maintain, and delete 3270 scripts — see Chapter 5, "Create, Maintain, and Delete 3270 Test Scripts" for information on how to work with your scripts. Select option **2 Test Scripts**.
   - Create, execute, and maintain test cases — see Chapter 7, "Create, Execute, and Maintain Test Cases" for information on how to work with your test cases. Select option **3 Test Cases**.
   - Build, execute, and delete sets of test cases — see Chapter 8, "Build, Execute, and Delete Playlists" for information on how to create, copy, run, and delete playlists. Select option **4 Playlists**.
   - Execute all test cases within this ATV — see Chapter 9, "Execute All Test Cases within this ATV" for information on how to execute the test cases in your ATV. Select option **5 Run Vehicle**.
   - Specify which users will receive ATV test results via e-mail messages — see Chapter 10, "Notify Users of ATV Test Results" for information on how to create e-mail contact lists and notify users of test results. Select option **6 Email list**.
   - View test execution reports — see Chapter 11, "Test Execution Reports" for information on how to view test execution reports. Select option **7 Reports**.

Copying an Automated Testing Vehicle

1. On the "Automated Testing Vehicle List Screen", type **C** next to the ATV you want to copy. The "Copy Automated Testing Vehicle Screen" appears (Figure 2-10).

   Note: When you copy an ATV, the profile that the ATV originally used is copied along as an element in the new vehicle.

Figure 2-10. Copy Automated Testing Vehicle Screen

```
Hiperstation  ---------- Copy Automated Testing Vehicle -----------------------
Command ===>


  Source ATV Name. . . . . ATVTEST3
  New ATV Name . . . . . .
  Application being tested Hiperstation

  ATV Description Hiperstation atv test

 Access control settings:
  ATV Owner: . . . . USER2312
  Test Group . . . . DOC
  Restrict access to 1 1. ATV Owner
                       2. Test Group
                       3. Public

 Press ENTER to continue.  Use END to cancel.
```

From this screen, you can create a new ATV using data from the selected source ATV and specify who can use it. The new ATV will contain everything that the original ATV contained (scripts, assets, test cases, and playlists). The intended purpose for copying an ATV is to set up an ATV to test a new version of an application already being tested by an ATV. Changing items in the new ATV leaves the original source ATV unchanged.

2. The **Source ATV Name** is the ATV you want to copy. This field is prefilled based on your selection from the previous screen. If you want to copy a different ATV, use **END** to return to the "Automated Testing Vehicle List Screen" and select another ATV.
3. Type a name for the new ATV in the **New ATV Name** field.
4. The **Application Being Tested** field is prefilled from the information in the Source ATV that you selected on the previous screen. You can modify this field if desired.
5. The **ATV Description** is prefilled based on the description contained in the Source ATV. It can be changed if desired. A description is required and makes it easier to locate the ATV when you want to use it, especially after many ATVs have been created.
6. Specify who will have access to this ATV.

   The **ATV Owner** field is automatically prefilled with the currently logged on user ID. The **Test Group** field allows you to specify a group of users who can access this ATV.
7. The **Restrict access to** field restricts who can access this ATV. Select: **1 (ATV Owner)**, **2 (Test Group)**, or **3 (Public)**. If you select **3. Public**, everyone will be able to access this ATV, and no security check (such as RACF) will be made.
8. Press Enter to continue. The "Set ATV DSN Prefix Screen" appears (Figure 2-5 on page 2-4).
9. Update this screen, or accept the information from the original ATV, and press Enter to continue. The "Allocate ATV 3270 Script File Screen" appears (Figure 2-6 on page 2-5).
10. Accept the information from the original ATV, or enter a new DSN prefix, and press Enter to continue. The "Allocate ATV Database Screen" appears (Figure 2-7 on page 2-5).
11. Update this screen, or accept the information from the original ATV, and press Enter to continue. The "Allocate ATV Assets Dataset Screen" appears (Figure 2-8 on page 2-6).
12. Update this screen or accept the information from the original ATV, and press Enter to continue. The "Automated Testing Vehicle List Screen" reappears with the new ATV appearing in the list.

Deleting an Automated Testing Vehicle

Delete removes the vehicle definition from your master index file and deletes the databases associated with the selected vehicle.

Note: ATVs can only be deleted individually and they can only be deleted by the vehicle owner and users with ATVADMIN authority.

1. On the "Automated Testing Vehicle List Screen", type **D** next to the ATV you want to delete. The "Confirm Automated Testing Vehicle Delete Screen" appears (Figure 2-11).

Figure 2-11. Confirm Automated Testing Vehicle Delete Screen

```
Hiperstation  ----- Confirm Automated Testing Vehicle Delete ------------------
Command ===>

 ATV to be deleted:
  ATV Name . . . . . . . . ATVTEST4
  Application Being Tested test Hiperstation
  Description Hiperstation atv test


 Press ENTER to confirm delete request.

 Use END to cancel delete request.
```

2. All of the fields on this screen are prefilled from information on the previous screen. Press Enter to delete the ATV or **END** to cancel and keep your ATV. The "Automated Testing Vehicle List Screen" reappears.

Chapter 3.
ATV Configuration Settings

Updating an Automated Testing Vehicle (ATV)

1. From the "Hiperstation - Product Menu", select **Hiperstation ATV Manager**. The "Automated Testing Vehicle List Screen" appears.
2. Open an automated testing vehicle by typing an **O** beside the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select **0 ATV Settings**. The "Automated Testing Vehicle Configuration Screen" appears (Figure 3-1).

Figure 3-1. Automated Testing Vehicle Configuration Screen

```
Hiperstation ------ Automated Testing Vehicle Configuration -------------------
Option  ===>


   1 ATV Settings           Configuration settings for ATV execution
   2 Substitution Symbols   ATV scope substitution symbols

 Enter selection or use END to return to ATV list screen.
```

On this screen you can update your ATV settings or create, update, or delete substitution symbols. Continue with the next section, "Update ATV Settings", or go to "ATV Substitution Symbols" on page 3-2 for details.

Update ATV Settings

1. Select **1 ATV Settings**. The "Update Automated Testing Vehicle Screen" appears (Figure 3-2).

Figure 3-2. Update Automated Testing Vehicle Screen

```
Hiperstation  --------- Update Automated Testing Vehicle ----------------------
Command ===> ____________________________________________________________________

  ATV Name ATVTEST3
  Application Being Tested HIPERSTATION_____________
  ATV Description Hiperstation ATV test_____________________________________

  Vehicle Type . . . 1 1. Regression
                       2. Performance

 Access Control Settings:
  ATV Owner. . . . . USER2312
  Test Group . . . . DOC_____
  Restrict access to 1 1. ATV Owner
                       2. Test Group
                       3. Public

  Profile member PROFILE
  Profile DSN. . VP.ATV.ATVTEST3.PROFILE

  Prefix for ATV datasets VP.ATV.ATVTEST3

 Press ENTER to update settings.  Use END to cancel.
```

On this screen, you can change the text for the application being tested and the description, the Vehicle Type (regression or performance), and the access control settings.

Note: The ATV Name, Profile member, Profile dataset name, and Prefix for ATV datasets fields are prefilled from the previous screen and cannot be changed.

2. If desired, change the prefilled text for the **Application Being Tested** and **ATV Description**. The **ATV Name** is prefilled from information on the previous screen and cannot be modified.
3. Select a **Vehicle Type** based on the type of testing you want to perform. Your choices include **1. Regression** and **2. Performance**.
4. If desired, change the prefilled **ATV Owner** and **Test Group** fields. The Test Group field allows you to create a group of users to whom you can restrict access to this ATV.
5. Specify who will have access to this ATV in the **Restrict access to** field. You have three choices: **1. ATV Owner**, **2. Test Group**, or **3. Public**. If you select Test Group, the group you specified in the Test Group field are the only users who will have access to this ATV. If you select **3. Public**, everyone will have access and no security check (such as RACF) will be made.

   Note: Security checks are subject to enabling Hiperstation security. For details, see the "Hiperstation Security" chapter in the *Hiperstation Installation and Configuration Guide*.

6. Press Enter to update your ATV or use END to cancel and return to the "Automated Testing Vehicle Screen" without saving your changes.

Note: If you plan to perform both types of testing (regression and performance), you can choose one type of test (regression, for example). When the regression test is complete, you can copy the vehicle and change to performance testing. You cannot perform both regression and performance tests at the same time.

ATV Substitution Symbols

Substitution symbols are symbols to modify statements within a JCL asset during test runs. Before a JCL asset is submitted it will be scanned for any defined substitution

symbols. When a symbol is found in the JCL it is replaced by its assigned "Replacement Value" character string before it is submitted. Symbols and replacement values are case sensitive.

Three types of substitution symbols are available:

- **Test step scope symbols** — User-defined substitution symbols defined to an individual JCL asset test step. They are only in effect for substitution processing on the test case step where the symbol has been defined.
- **ATV scope symbols** — User-defined substitution symbols defined to the entire ATV. They are available for substitution processing on all JCL asset steps in all test cases within the ATV.
- **ATV system symbols** — System-defined substitution symbols that provide attributes of the ATV as their replacement values. They are available for substitution processing on all JCL asset steps in all test cases within the ATV.

The order of precedence for substitution processing is test step scope symbols, followed by ATV scope symbols, and finally ATV system symbols. Higher precedence symbols can use lower precedence symbols within their replacement values.

Example: An ATV scope symbol defined as *SYSIN* with a replacement value of FILEAID.SYSIN.CONTROL.CARDS(%TCSNAM%) is defined for use with a JCL asset that runs a File-Aid compare job. The JCL asset would select the sysin statements appropriate to each individual test case with the statement:

```
//SYSIN    DD  DISP=SHR,DSN=*SYSIN*
```

If this JCL asset was used in a test case named TCASE1, the sysin statement would be changed to:

```
//SYSIN    DD  DISP=SHR,DSN=FILEAID.SYSIN.CONTROL.CARDS(TCASE1)
```

when the JCL asset runs.

Substitution Symbols

Create a New ATV Scope Substitution Symbol

1. On the "Automated Testing Vehicle Configuration Screen", select **2 Substitution Symbols**. The "ATV Scope Substitution Symbols Screen" appears (Figure 3-3).

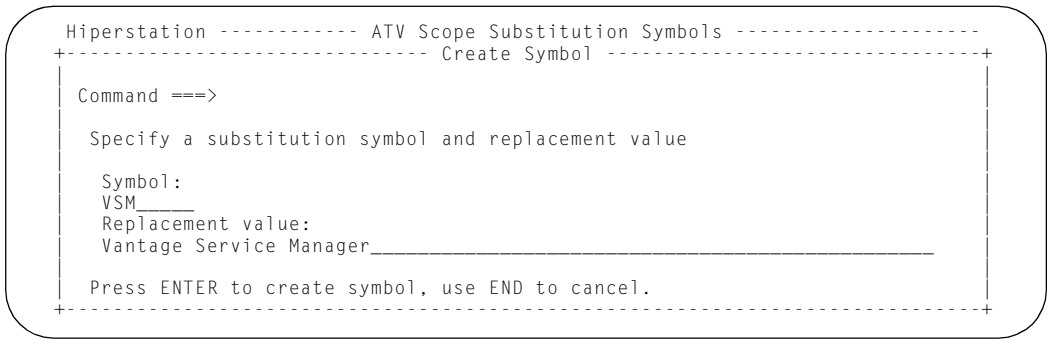
Figure 3-3. ATV Scope Substitution Symbols Screen

```
Hiperstation ------------ ATV Scope Substitution Symbols ----------------------
Command ===>                                                 Scroll ===> PAGE

Primary commands: Create symbol, System symbols

Line commands:. . (U)pdate, (D)elete

S  Symbol    Replacement Value
-  --------  ------------------------------------------------------------------
****************************** Bottom of data ********************************
```

On this screen, you can specify whether to work with user-defined substitution symbols or system substitution symbols.

2. To create a new symbol, type **C** on the command line. The "Create Symbol Screen" appears (Figure 3-4).

Figure 3-4. Create Symbol Screen



3. Type the symbol name in the **Symbol** field.
4. Type the replacement value in the **Replacement value** field.
5. Press Enter to create the symbol. You will return to the "ATV Scope Substitution Symbols Screen" and your new symbol will now appear in the symbol list.

Update a Substitution Symbol

After your symbol is created, you can update it by selecting the **U** line command on the "ATV Scope Substitution Symbols Screen". The "Update Symbol Screen" appears and is similar to Figure 3-4 except you can change only the replacement value, not the symbol name. After making your change, press Enter to save your change and return to the "ATV Scope Substitution Symbols Screen".

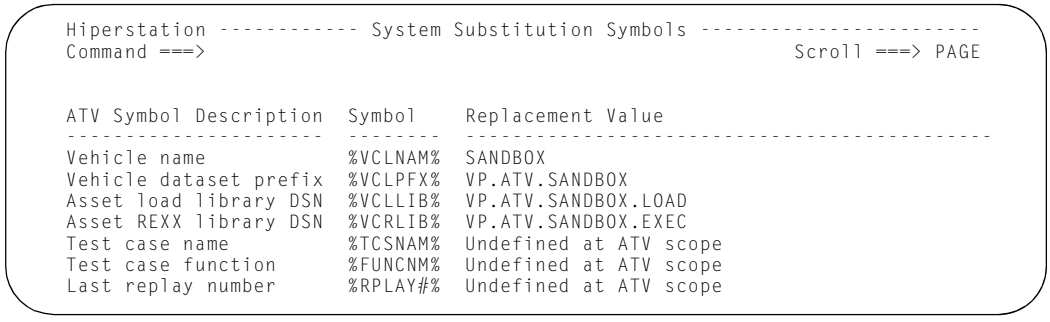
Delete a Substitution Symbol

After your symbol is created, you can delete it by selecting the **D** line command on the "ATV Scope Substitution Symbols Screen". The symbol is immediately deleted and there is no delete confirmation screen.

View System Symbols

1. On the "Automated Testing Vehicle Configuration Screen", select **2 Substitution Symbols**. The "ATV Scope Substitution Symbols Screen" appears (Figure 3-3).
2. To view the list of system symbols, type **S** on the command line. The "System Substitution Symbols Screen" appears (Figure 3-5).

Figure 3-5. System Substitution Symbols Screen



On this screen you can see the list of system symbols that are available for use in your ATV JCL.

3. Press END to return to the "ATV Scope Substitution Symbols Screen".

Chapter 4.
Test Assets

This chapter describes how to manage your test assets. There are two types of test assets: ATV level assets and function level assets. ATV level assets include user IDs, regions, and load modules. It is highly recommended that you use production regions unless you have a dedicated test environment. Function level assets include test asset datasets, test JCL, and REXX executables.

In addition, you can define functions to group your test assets (see "Option 7 - Functions" on page 4-15 for information on how to create a function).

Managing Test Assets

1. From the "Hiperstation - Product Menu", select **4 Hiperstation ATV Manager**. The "Automated Testing Vehicle List Screen" appears.
2. Open an ATV by typing an **O** for the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select option **1 Test Assets**. The "Asset Management Screen" appears (Figure 4-1).

Figure 4-1. Asset Management Screen

```
Hiperstation ----------------- Asset Management -------------------------------
Option  ===>

 ATV name. . ATVTEST3        Application being tested Hiperstation
 Description Hiperstation ATV test

      ATV Level - Asset Types:
   1  Userids                  Manage Tester Userids
   2  Regions                  Manage Test Regions
   3  Load Modules             Manage Load Modules

      Function Level - Asset Types:
   4  Datasets                 Manage Test Asset Datasets
   5  JCL Members              Manage Test JCL
   6  REXX Executables         Manage REXX Executables

   7  Functions                Manage Function Descriptions

      Enter END command to return to the ATV Main Vehicle panel.
```

   The ATV name, Description, and Application being tested fields are included as a visual indicator or reminder of which ATV the assets are associated with and cannot be changed on this screen.

4. Select the asset option you want to work with by typing its number on the Option line and press Enter.

The following sections describe the asset management options available on this screen.

ATV Level - Asset Types

The ATV level asset types include **User IDs**, **Regions**, and **Load Modules**. The following sections describe these asset types.

Option 1 - Userids

Userid assets are associated with specific LPARs and allow you to manage the associated passwords. These assets can automatically produce logon scripts for replays within the ATV.

Note: ATV Userids are created specifically for automated testing and are limited in scope. The ATV Userid functions do not support the use of RACF passphrases.

1. On the "Asset Management Screen", select **1 Userids**. The "Test Assets - Userids Screen" appears (Figure 4-2). This screen contains a list of testers' user IDs, the LPAR on which they are defined, an optional description for each user ID, and the status of each user ID within the ATV.

   There are four types of status:

   – **BLANK** indicates a newly added user ID or a manually updated user ID.

   – **Pending** indicates a batch job has been submitted to update the password for this user ID. View the user ID for job name and ID.

   – **Okay** indicates that this user ID's password was successfully updated via a batch job.

   – **Error** indicates there was an error attempting to update this user ID via a batch job. View the user ID for additional information.

Figure 4-2. Test Assets - Userids Screen

```
Hiperstation ------------- Test Assets - Userids ------------------ Row 1 of 4
Command ===>                                                 Scroll ===> PAGE

Primary commands: UPDATE
Line commands...: (A)dd (D)elete (U)pdate (V)iew

ATV name. . ATVTEST3        Application being tested Hiperstation

S Userid   LPAR     Description                                    Status
- ******** ******** ********************************************* *******
  USER2312 MACH1                                                  Okay
  USER2312 MACH2                                                  Okay
  USER241  MACH1                                                  Okay
  USER153  MACH1                                                  Okay
```

On this screen, you can view, add, update, and delete test users from the selected ATV. In addition, you can update the password for all users on the ATV.

2. To change the password (at the same time) for all users who have a shared password to a new shared password, type **UPDATE** on the command line. The "Test Assets - Userids - Mass Update Screen" appears (Figure 4-3 on page 4-3).

3. Type **A** (add), **D** (delete), **U** (update), or **V** (view) next to the userid you want to work with. The Add and Update screens contain the same fields.

   a. **A** opens the "Test Assets - Userids - Add Screen" (Figure 4-4 on page 4-4). On this screen, you can add a new tester's user ID to the list of user IDs.

   b. **D** deletes a user ID from the list of user IDs. Delete does not offer a delete confirmation screen.

c. **U** opens the "Test Assets - Userids - Update Screen" (Figure 4-5 on page 4-4). On this screen, you can change the password for a single user or the description.

d. **V** opens the "Test Assets - Userids - View Screen" (Figure 4-6 on page 4-5). On this screen, you can view the information for a single user, but you cannot make changes.

Update the Password for All of an ATV's Testers

On this screen you can change all of the passwords (at one time) for a set of testers' userids who have the same password. Type your old password, your new password, and your new password a second time for validation. Then press Enter to complete the update. Enter END or CANCEL to exit without changing the password.

For security purposes, you might want to use this option periodically or whenever one or more testers are removed from the list of testers.

Note: The update searches the Userid list for user IDs with a current password matching the requested old password. For each user ID, a batch job will be submitted that executes a Hiperstation batch playback that attempts to log on as that user ID and issue a password update to the new password. In order to execute the batch playbacks, at least one region must be defined to the ATV for the LPAR on which the user ID resides.

1. In the "Test Assets - Userids Screen" (Figure 4-2 on page 4-2), type UPDATE on the command line and press Enter. The "Test Assets - Userids - Mass Update Screen" appears (Figure 4-3).

Figure 4-3. Test Assets - Userids - Mass Update Screen

```
Hiperstation ------------- Test Assets - Userids ------------------------------
C +-------------------------------------------------------------------+  ===> PAGE
  | -----------  Test Assets - Userids - Mass Update  ----------- |
P | Command ===>                                                      |
L |                                                                   |
  |  Old Password:                                                    |
A |  New Password:             Confirm Password:                      |
  |                                                                   |
S | Press the ENTER key to update.  Enter END or CANCEL to abort. |
- +-------------------------------------------------------------------+
  USRDHRO  CW01
  USRDHRO  CW40
```

2. Type your old password, your new password, and your new password a second time for validation.

3. Press Enter to update the password or use **END** or **CANCEL** to return to the previous screen without changing the password.

Add, View, Update, or Delete User IDs for an ATV

From the "Test Assets - Userids Screen" (Figure 4-2 on page 4-2), you can choose to add, view, update, or delete user IDs for the selected ATV.

Type a line command beside a user ID to select it and press Enter to open the appropriate screen.

– Type **A** to add a new user ID. The "Test Assets - Userids - Add Screen" appears (Figure 4-4). Enter a Userid, Password, LPAR, and optional user ID description. The password will not show on the screen when you type it.

  Press Enter to add the user ID and open another Add screen to add additional

user IDs or use **END** or **CANCEL** to return to the "Test Assets - Userids Screen" without adding a new user ID.

Figure 4-4. Test Assets - Userids - Add Screen

```
Hiperstation ------------- Test Assets - Userids -----------------------------
C +-------------------------------------------------------------+  ===> PAGE
  | ----------------  Test Assets - Userids - Add --------------- |
P | Command ===>                                                |
L |                                                             |
  |  Userid: USER2424      Password:              LPAR: MACH1___  |
A |  Description:  User's name_____________________________     |
  |                                                             |
S | Press ENTER to add.  END or CANCEL to exit.                 |
- +-------------------------------------------------------------+
  USRDHRO  MACH1
  USRDHRO  MACH3
  USRDHRO  MACH1    TEST AN ADD WITH THE NEW POPUP
  USRDHR1  MACH1
```

– Type **U** to change a single user's password or description. The "Test Assets - Userids - Update Screen" appears (Figure 4-5). The fields except Password are prefilled with the information you entered on the Add screen. You can only add or change a Description or change the password. The password will not show on the screen when you type it. To change the password via a batch job (similar to the UPDATE primary command), you must enter the old password and the new password twice for verification. To update the password on the database only (for cases where the password associated with the user ID was changed outside of the ATV), you only need to provide the new password in the Password field. Do not enter any values in the New or Confirm Password fields.

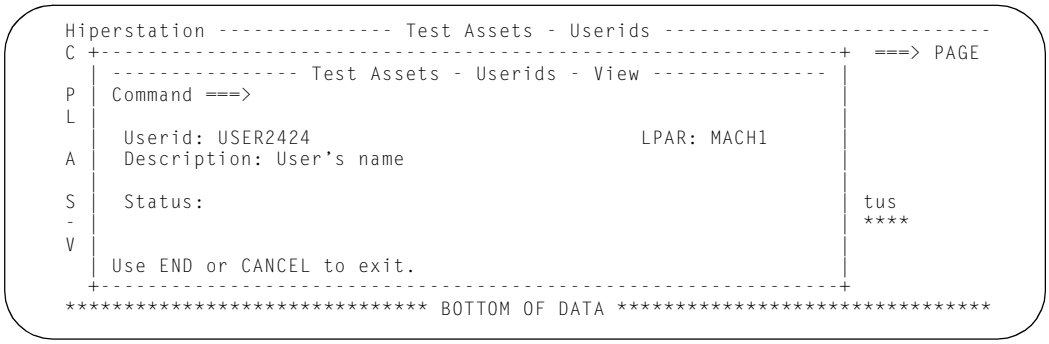
  Press Enter to update the password and/or description, or use **END** or **CANCEL** to return to the "Test Assets - Userids Screen" without updating the password or description.

Figure 4-5. Test Assets - Userids - Update Screen

```
Hiperstation ------------- Test Assets - Userids -----------------------------
C +-------------------------------------------------------------+  ===> PAGE
  | --------------  Test Assets - Userids - Update -------------- |
P | Command ===>                                                |
L |                                                             |
  |  Userid: USER2424     Password:              LPAR: CW01      |
A |  Description: User's name_____________________________      |
  |                                                             |
S |  Update Asset and Change Password (via BATCH job):          |  TUS
- |  New Password:             Confirm New Password:            |  ****
  |                                                             |
  | Press ENTER to update. END or CANCEL to exit.               |
  +-------------------------------------------------------------+
  USER2526 MACH1
u USER2424 MACH1
******************************* BOTTOM OF DATA ********************************
```

– Type **V** to view the user ID information. The "Test Assets - Userids - View Screen" appears (Figure 4-6). View does not show password information and you cannot change any information on this screen.

Figure 4-6. Test Assets - Userids - View Screen



The "Test Assets - Userids - View Screen" displays extended status information for Pending and Error statuses. Available statuses include:

- blank indicates a newly added user ID or a manually updated user ID.
- Pending indicates a batch job has been submitted to update the password for this user ID. The job name and job ID of the batch job to change the password may be displayed.
- Okay indicates this user's password was successfully updated via a batch job. A message confirming the last password change was successful may be displayed.
- Error indicates there was an error attempting to update this user ID via a batch job. Additional information about the problem encountered while attempting to change the password may be displayed.

Use **END** or **CANCEL** to return to the "Test Assets - Userids Screen".

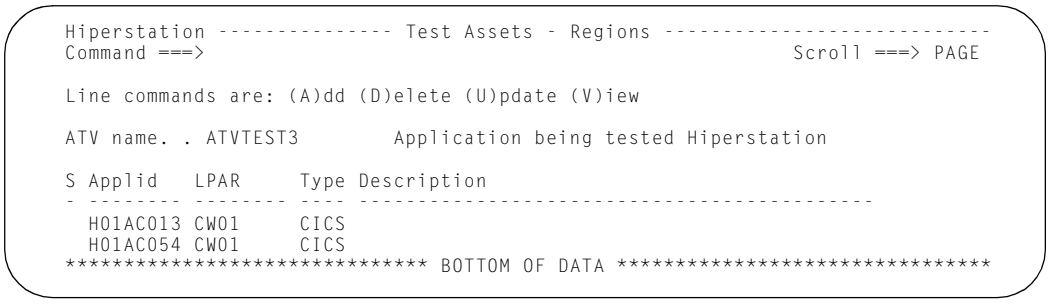
– Type **D** beside the user ID you want to delete and press Enter. Delete does not provide a confirmation screen.

Option 2 - Regions

Region assets allow you to define the regions that will be used during replays. If the region is a CICS region, you can specify startup JCL that will be run if the region is not already running (CICS regions defined this way must be on the same LPAR as the ATV). In addition, these regions are used to update passwords via a batch job as part of Userid maintenance.

1. On the "Asset Management Screen" (Figure 4-1 on page 4-1), select **2 Regions**. The "Test Assets - Regions Screen" appears (Figure 4-7). This screen contains a list of regions for this ATV, the LPAR on which they exist, the region type, and an optional description if available.

Figure 4-7. Test Assets - Regions Screen

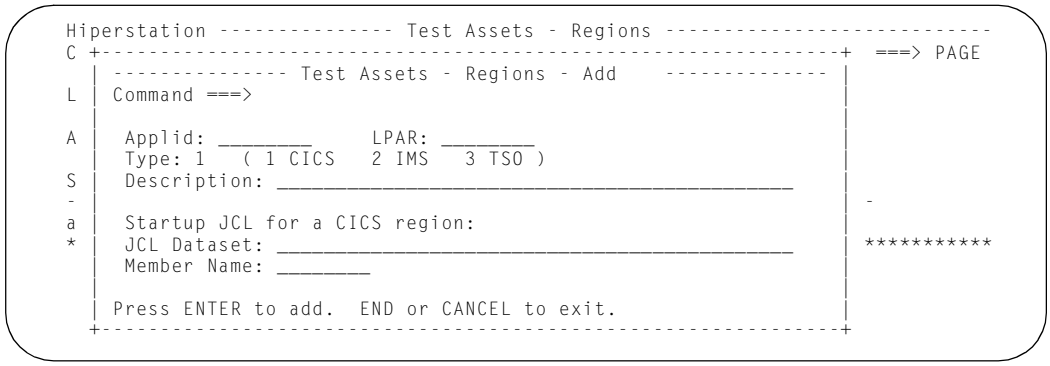


On this screen you can choose to add, update, delete, or view a region from the selected ATV.

2. To view or change the region information, type **A** (add), **D** (delete), **U** (update), or **V** (view) next to the region you want to work with.

   a. **A** opens the "Test Assets - Regions - Add Screen" (Figure 4-8). On this screen, you can add a new region to the list of regions for this ATV.

Figure 4-8. Test Assets - Regions - Add Screen



Note: The Add, Update, and View screens contain the same fields.

   b. **U** opens the "Test Assets - Regions - Update Screen". All of the fields are prefilled with the information you entered on the Add screen. You can add or change the description or startup JCL (for a CICS region).

   c. **V** opens the "Test Assets - Regions - View Screen". All of the fields are prefilled with the information you entered on the Add screen. You cannot make any changes to the information.

   d. **D** deletes a region from the list of regions. Delete does not offer a delete confirmation screen, it deletes the region immediately.

3. On the "Test Assets - Regions - Add Screen" type a name for the new ATV region and the LPAR where it will be located. On the Update screen you can change the information that is there.

4. Type **1** for CICS, **2** for IMS, or **3** for TSO to select the region type. The region type controls the scripts used for automatic logon/logoff during replays and the script used for batch password updates.

5. Type an optional **Description** for this region if desired.

6. Specify the JCL for starting this ATV region and enter a member name if applicable. Startup JCL is an option only for a CICS region.

   For Performance Vehicle testing, if the Performance Vehicle starts the CICS region, it will attempt to stop the CICS region when the Performance Test is complete. This allows CICS region statistics to be used as part of the Pass/Fail criteria. To accomplish a CICS region stop, a Console Terminal must be installed in the CICS regions that the Performance Vehicle will use.

   Note: For more information, see the "Terminal Definitions for CICS" section in the manual installation chapter in the *Hiperstation Installation and Configuration Guide*.

7. If you are on the "Test Assets - Regions - Add Screen", press Enter to add a new region and open another Add screen to add another region, or use **END** or **CANCEL** to return to the "Test Assets - Regions Screen" without adding a new region.

If you are on the "Test Assets - Regions - Update Screen", press Enter to save your changes and return to the "Test Assets - Regions Screen", or use **END** or **CANCEL** to return without saving your changes.

If you are on the "Test Assets - Regions - View Screen", use **END** or **CANCEL** to return to the "Test Assets - Regions Screen".

Option 3 - Load Modules

Load module assets give you a common place to store all custom modules needed for the execution of a test vehicle.

1. On the "Asset Management Screen", select **3 Modules**. The"Test Assets - Load Modules Screen" appears (Figure 4-9). This screen contains a list of load modules for this ATV.

Figure 4-9. Test Assets - Load Modules Screen

```
Hiperstation ----------- Test Assets - Load Modules --------------- Row 1 of 1
Command ===>                                                 Scroll ===> PAGE

Line commands are: (A)dd (D)elete (U)pdate (V)iew

ATV name. . ATVTEST3        Application being tested Hiperstation

S Function Module   Description
- ******** ******** ******************************************
  COMMON   ATVA     The ATVA program (imported!)
****************************** BOTTOM OF DATA ********************************
```

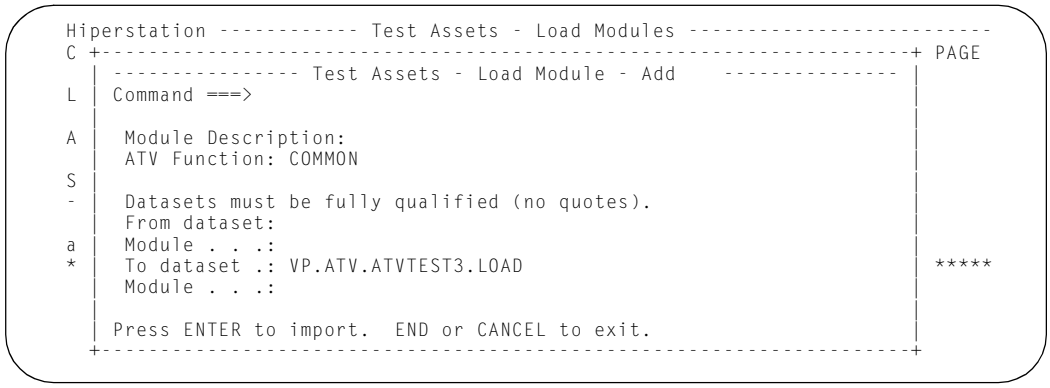
On this screen you can choose to add, update, view, or delete a load module from the selected ATV.

Note: When you add the first load module to the test assets for this ATV, an Allocate dataset screen will appear. Allocate your dataset to continue.

2. To add or change the load modules information, type **A** (add) or **U** (update) next to the load module you want to work with. To view a load module without making any changes to it, type **V** (view). To delete a load module, type **D** (delete).
   a. **A** opens the "Test Assets - Load Module - Add Screen" (Figure 4-10). On this screen, you can add a new load module to the list of load modules for this ATV. Type a name for the new ATV load module and an optional description. Enter a from dataset and module, and a To module. The To dataset is preloaded.

      Press Enter to add a new load module and open another Add screen to add another Load Module. Use **END** or **CANCEL** to return to the "Test Assets - Load Modules Screen" without adding a new load module.

Figure 4-10. Test Assets - Load Module - Add Screen



Note: The Add, Update, and View screens contain the same fields.

b. **U** opens the "Test Assets - Load Module - Update Screen". On this screen, you can modify a load module's description or function. All of the fields are prefilled with the information you entered on the Add screen. You can modify the Module Description and ATV function.

   Press Enter to save your changes and return to the "Test Assets - Load Modules Screen", or use **END** or **CANCEL** to exit without saving your changes.

c. **V** opens the "Test Assets - Load Module - View Screen". This screen contains the same information as the Update screen, but you cannot make any modifications.

   Use **END** or **CANCEL** to return to the "Test Assets - Load Modules Screen".

d. **D** deletes a load module from the list of load modules. Delete does not offer a delete confirmation screen.

Function Level - Asset Types

Option 4 - Datasets

Dataset assets allow you to organize the input and output data used by your Test Cases. The ATV will handle the processing for your datasets at run time depending on the usage of the dataset:

- Input datasets are unmigrated and verified accessible.
- Work datasets are reallocated and initial data restored.
- Output datasets are deleted and reallocated.

1. On the "Asset Management Screen", select **4 Datasets**. The "Test Assets - Datasets Screen" appears (Figure 4-11). This screen contains a list of existing test asset datasets.

Figure 4-11. Test Assets - Datasets Screen

```
Hiperstation -------------- Test Assets - Datasets ---------------- Row 1 of 2
Command ===>                                                  Scroll ===> PAGE

Line commands are: (A)dd (D)elete (V)iew

ATV name. . ATVTEST3        Application being tested Hiperstation

S Function Dataset                                        Type
- ******** ***************************************** ******
  COMMON   VP.ATV.ATVTEST3.COMMON.ATV                    Input
  COMMON   VP.ATV.ATVTEST3.COMMON.ATV.TCPSCRP            Output
****************************** BOTTOM OF DATA ********************************
```

On this screen, you can add, view, or delete test asset datasets from the selected ATV.

2. To view or add test asset information, type **V** (view) or **A** (add) next to a test asset dataset and press Enter. To delete a test asset dataset, type **D** (delete) and press Enter.
   - **V** opens the "View Dataset Asset Screen" (Figure 4-12) or the "View VTAM Dataset Asset Screen" (Figure 4-13). You cannot make changes on the View screens.

     Figure 4-12 shows the result of a View issued against a flat file. Figure 4-13 shows the result of a View issued against a sequential/PDS/PDSE or VSAM file.

Figure 4-12. View Dataset Asset Screen

```
Hiperstation -----------------View Dataset Asset -------------------------------
Command ===>

Dataset name: VP.ATV.ATVTEST3.COMMON.ATV

  Management class . . . STANDARD    (Blank for default management class)
  Storage class  . . . . BASE        (Blank for default storage class)
   Volume serial . . . . SU900D      (Blank for system default volume)
   Device type . . . . . 3390        (Generic unit or device address)
  Data class . . . . . .             (Blank for default data class)
   Space units . . . . . CYLS        (BLKS, TRKS, CYLS, KB, MB, or BYTES)
   Primary quantity  . . 1           (In above units)
   Secondary quantity  . 1           (In above units)
   Record Format . . . . U
   Directory blocks. . . 0           (Zero for sequential or LIBRARY)
   Record length . . . . 9000
   Block size. . . . . . 9004
   Organization. . . . . PS
   Data set name type. .             (LIBRARY, PDS, or blank)
```

Figure 4-13. View VTAM Dataset Asset Screen

```
Hiperstation --------------View VTAM Dataset Asset ----------------------------
Command ===>

Component names:
Cluster:                 VP.ATV.ATVTEST3.COMMON.VSAM
Data component      ===> VP.ATV.ATVTEST3.COMMON.VSAM.D
Index component     ===> VP.ATV.ATVTEST3.COMMON.VSAM.N
Dataset type        ===> KSDS      (KSDS; ESDS; RRDS; LINEAR)

Specify SMS Class Information:
Storage    ===>          Data ===>          Management ===>

Space Allocation:   DATA Component  KSDS INDEX Component (Blank for default)
Volume serial       ===>            ===>
Units               ===> TRKS       ===> CYLS      (TRKs; CYLs)
Primary             ===> 100        ===> 1         (Amount in above units)
Secondary           ===> 50         ===> 2         (Amount in above units)
Reusable            ===>            (Y = Yes; N = No)
Key length          ===> 40         (1 - 255 - Required for KSDS only)
Key position        ===> 1          (0 - maximum record - KSDS only)
Average Recordsize  ===> 160        (Not allowed for LINEAR)
Maximum Recordsize  ===> 400        (Not allowed for LINEAR)
```

– **D** removes a test asset dataset from the list of datasets and deletes the related datasets from the system. Delete does not offer a delete confirmation screen.

– **A** opens the “Test Assets - Dataset - Add Screen” (Figure 4-14). On this screen, you can add a new test asset dataset to the list of datasets for this ATV.

Figure 4-14. Test Assets - Dataset - Add Screen

```
Hiperstation -------------- Test Assets - Datasets ----------------------------
C +-------------------------------------------------------------------+ PAGE
  | -------------------- Test Assets - Datasets - Add ------------------ |
L | Command ===>                                                      |
  |                                                                   |
A |  High Level Qualifier: VP.ATV.ATVTEST3                            |
  |  Function: COMMON      Usage: 1   ( 1 Input   2 Output   3 Work)  |
S |  Unique Asset Qualifier(s):                                       |
- |                                                                   |
a |  Dataset name of the asset will be (in order, left to right):     |
* |  the High Level Qualifier, the Function Name, and the Unique      | *****
  |  Asset Qualifier(s) up to a maximum of 42 characters total        |
  |  (2 characters of the DSN are reserved for ATV usage).            |
  |                                                                   |
  | Press ENTER to add, END or CANCEL to exit.                        |
  +-------------------------------------------------------------------+
```

The information you fill in these fields will comprise the name of the test asset dataset. The High Level Qualifier is prefilled from the previous screen and cannot be changed.

3. The **Function** field is prefilled with the default Function name but can be changed, if desired. This will be used to group your test asset datasets.

4. Select the use to which this test asset will be put. Choices include: **1 Input**, **2 Output**, and **3 Work**.

   The type of dataset controls how it is utilized within a test case and the usage type you select determines the next screen that appears.

   – If you select **2 Output**, the “Test Assets - Dataset - Output Dataset Screen” appears (Figure 4-15).

     Output datasets are meant to be used solely for output by a test case. When specified as an asset in a test case, the ATV will delete the Output dataset and reallocate it using the dataset criteria specified.

– If you select **1 Input** or **3 Work**, the "Test Assets - Dataset - Source Dataset Screen" appears (Figure 4-16).

  Input datasets are meant to be used solely for input by a test case. These datasets are left as is and are not modified by the ATV.

  Work datasets are a combination of Input/Output and can be used for any purpose. When specified as an asset in a test case, the ATV will delete the Work dataset, reallocate it using the dataset criteria specified, and restore its data from a backup made at the time it was added to the Assets.

5. Specify **Unique Asset Qualifiers**.

Note: The dataset name of the asset will comprise the High Level Qualifier, the Function Name, and the Unique Asset Qualifiers up to a maximum of 42 characters total. Two characters are reserved for ATV usage.

Figure 4-15. Test Assets - Dataset - Output Dataset Screen

```
Hiperstation -------------- Test Assets - Datasets ----------------------------
C +-------------------------------------------------------------------+ ==> PAGE
  | ----------- Test Assets - Datasets - Output Dataset ----------- |
L | Command ===>                                                      |
  |                                                                   |
A |  How should the Output dataset be allocated.                      |
  |                                                                   |
S |  1   1. Use a model dataset (fully qualified, no quotes):         |
- |        _____________________________________________              |
a |      2. Allocate a sequential file, PDS, or PDSE                  |
* |      3. Allocate a VSAM file                                      | *********
  |                                                                   |
  | Press the ENTER key to continue.  Enter END or CANCEL to abort.   |
  +-------------------------------------------------------------------+
```

Figure 4-16. Test Assets - Dataset - Source Dataset Screen

```
Hiperstation -------------- Test Assets - Datasets ----------------------------
C +-------------------------------------------------------------------+ ===> PAGE
  | ----------- Test Assets - Datasets - Source Dataset ---------- |
L | Command ===>                                                      |
  |                                                                   |
A |  Please specify the source dataset to import data from.           |
  |  (Dataset must be fully qualified)                                |
S |                                                                   |
- |  Dataset: ____________________________________________            |
a |                                                                   |
* | Press the ENTER key to modify.  Enter END or CANCEL to abort.     | **********
  +-------------------------------------------------------------------+
```

If you specified a model dataset (Figure 4-15) for an Output dataset, an allocation screen based on the dataset criteria of the model will appear. If you specified to allocate a new sequential or VSAM dataset, a blank allocation panel of the appropriate type will appear (Figure 4-17).

Figure 4-17. Allocate ATV Dataset Asset (VSAM) Screen

```
Hiperstation ----------   Allocate ATV Dataset Asset   ------------------------
Command ===>

Component names:
Cluster:                VP.ATV.ATVTEST3.COMMON.VSAM
Data component      ===> VP.ATV.ATVTEST3.COMMON.VSAM.D
Index component     ===> VP.ATV.ATVTEST3.COMMON.VSAM.N
Dataset type        ===> ________  (KSDS; ESDS; RRDS; LINEAR)

Specify SMS Class Information:
Storage    ===> ________ Data ===> ________ Management ===> ________

Space Allocation:   DATA Component  KSDS INDEX Component (Blank for default)
Volume serial       ===> SU9009     ===> ______
Units               ===> CYLS       ===> ____       (TRKs; CYLs)
Primary             ===> 2_______   ===> ________   (Amount in above units)
Secondary           ===> 1_______   ===> ________   (Amount in above units)
Reusable            ===> _          (Y = Yes; N = No)
Key length          ===> ___        (1 - 255 - Required for KSDS only)
Key position        ===> _____      (0 - maximum record - KSDS only)
Average Recordsize  ===> _____      (Not allowed for LINEAR)
Maximum Recordsize  ===> _____      (Not allowed for LINEAR)
```

When specifying a source dataset (Figure 4-16) for an Input or Work dataset, an allocation screen based on the dataset criteria of the model will appear. In addition, for Input and Work datasets, data will be copied from the source dataset into the new ATV dataset.

6. Press Enter to save your changes and return to the “Test Assets - Datasets Screen”, or use **END** or **CANCEL** to exit without adding a new test asset dataset or saving your changes.

Option 5 - JCL Members

Similar to Load Modules, JCL member assets provide a common place to store custom JCL for execution as part of a vehicle.

1. On the “Asset Management Screen”, select **5 JCL**. The “Test Assets - JCL Screen” appears (Figure 4-18). This screen contains a list of existing JCL members available to use with this ATV.

Figure 4-18. Test Assets - JCL Screen

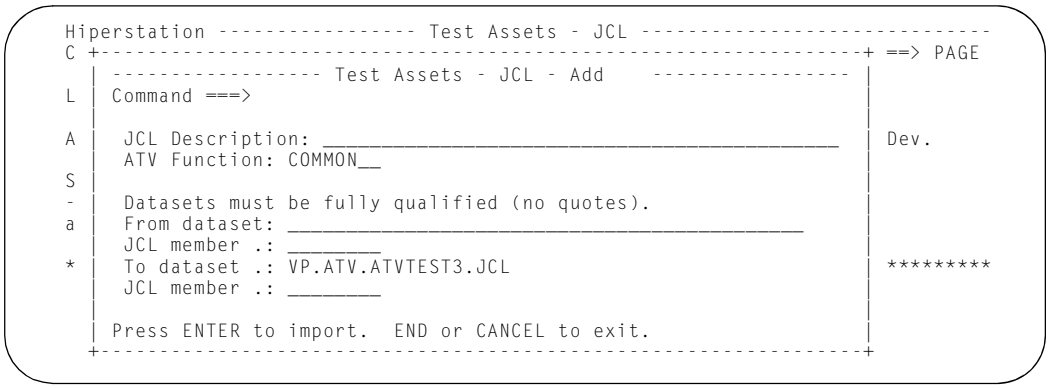
```
Hiperstation ----------------- Test Assets - JCL ------------------ Row 1 of 1
Command ===>                                                Scroll ===> PAGE

Line commands are: (A)dd (D)elete (U)pdate (V)iew (B)rowse (E)dit

ATV name. . ATVTEST3        Application being tested Hiperstation

S Function Member   Description
- ******** ******** ******************************************
  COMMON   JOBGENR  Hiperstation job generator jcl
****************************** BOTTOM OF DATA ********************************
```

On this screen, you can choose to add, update, view, delete, browse, or edit JCL members from the selected ATV.

Note: When you add the first JCL dataset to the test assets for this ATV, an Allocate dataset screen will appear. Allocate your dataset to continue.

2. To add or change JCL information, type **A** (add) or **U** (update) next to a JCL Function and press Enter. To view JCL information without changing it, type **V** (view) and press Enter. To delete a JCL member, type **D** (delete) and press Enter.
   – **A** opens the "Test Assets - JCL - Add Screen" (Figure 4-19). On this screen, you can add a new JCL member to the list of datasets for this ATV.

Figure 4-19. Test Assets - JCL - Add Screen



Note: The Add, Update, and View screens contain the same fields.

1. Type a description for the JCL member if desired.
2. An ATV Function name is prefilled but can be changed if desired.
3. In the **From dataset** and **JCL member** fields, type the name of the dataset and member containing the JCL you want to use for this ATV.
4. In the **JCL member** field (following the **To dataset**), type the name of the member you want to create for use with this ATV. The ATV JCL **To Dataset** is fixed and cannot be modified.

   Note: The dataset must be fully qualified and entered without quotes.

5. Press Enter to save your changes and open a new Add screen to add additional Test Assets JCL, or use **END** or **CANCEL** to exit without adding a new JCL member or saving your changes and return to the "Test Assets - JCL Screen".

– **U** opens the "Test Assets - JCL - Update Screen". The fields on this screen are prefilled with the information you entered on the Add screen. You can add or change the JCL Description or change the ATV Function.

  Press Enter to save your changes and return to the "Test Assets - JCL Screen", or use **END** or **CANCEL** to exit without saving your changes.

– **V** opens the "Test Assets - JCL - View Screen". This screen contains the same information as the Update screen, but you cannot make any changes to it.

  Use **END** or **CANCEL** to return to the Test Assets - JCL.

– **D** deletes a JCL member from the list of datasets. Delete does not offer a delete confirmation screen.

– **B** invokes the ISPF browser to display the selected JCL asset member.

– **E** invokes an ISPF edit session on the selected JCL asset member.

Option 6 - REXX Executables

REXX executables provide a location to store custom REXX modules for use by your test cases.

1. On the "Asset Management Screen", select **6 REXX**. The "Test Assets - REXX Executables Screen" appears (Figure 4-20). This screen contains a list of existing REXX programs to use with this ATV.

Figure 4-20. Test Assets - REXX Executables Screen

```
Hiperstation ---------- Test Assets - REXX Executables ------------ Row 1 of 1
Command ===>                                                  Scroll ===> PAGE

Line commands are: (A)dd (D)elete (U)pdate (V)iew

ATV name. . ATVTEST3        Application being tested Hiperstation

S Function Member   Description
- ******** ******** ******************************************
  COMMON   SCRPENHR super duper script enhancer
****************************** BOTTOM OF DATA ********************************
```

On this screen, you can choose to add, update, delete, or view REXX programs from the selected ATV.

Note: When you add the first REXX Executable to the test assets for this ATV, an Allocate dataset screen will appear. Allocate your dataset to continue.

2. To add or change REXX executables, type **A** (add) or **U** (update) next to a REXX executable and press Enter. To view REXX executables without changing them, type **V** (view) and press Enter. To delete a REXX executable, type **D** (delete) and press Enter.
   - **A** opens the "Test Assets - REXX Executable - Add Screen" (Figure 4-21). On this screen, you can add a new REXX executable to the list of executables for this ATV.

Figure 4-21. Test Assets - REXX Executable - Add Screen

```
Hiperstation ---------- Test Assets - REXX Executables ------------------------
C +-------------------------------------------------------------------+ => PAGE
  | ------------ Test Assets - REXX Executable - Add    ------------ |
L | Command ===>                                                     |
  |                                                                  |
A |  Exec Description: ____________________________________________  |
  |  ATV Function: COMMON__                                          |
S |                                                                  |
- |  Datasets must be fully qualified (no quotes).                   |
a |  From dataset: ________________________________________________  |
* |  Member . . .: ________                                          | ********
  |  To dataset .: VP.ATV.ATVTEST3.EXEC                              |
  |  Member . . .: ________                                          |
  |                                                                  |
  | Press ENTER to import.   END or CANCEL to exit.                  |
  +------------------------------------------------------------------+
```

Note: The Add, Update, and View screens contain the same fields.

1. Type a description for the REXX executable if desired.
2. Enter an ATV Function name if desired.

3. In the **From dataset** and **member** fields, type the name of the dataset and member containing the REXX executable you want to use for this ATV.
4. In the **member** field (following the **To dataset**), type the name of the member you want to create for use with this ATV. The REXX Executable **To Dataset** is fixed and cannot be modified.
5. Press Enter to Add a new REXX executable and open another Add screen to add additional REXX executables, or use **END** or **CANCEL** to return to the "Test Assets - REXX Executables Screen" without adding a new REXX executable.

– **U** opens the "Test Assets - REXX Executable - Update Screen". On this screen, all of the fields are prefilled with the information you entered on the Add screen. You can add or change the Exec Description or change the ATV Function.

  Press Enter to save your changes and return to the "Test Assets - REXX Executables Screen", or use **END** or **CANCEL** to exit without saving your changes.

– **V** opens the "Test Assets - REXX Executable - View Screen". This screen contains the same information as the Update screen, but you cannot update the REXX executable's information.

  Use **END** or **CANCEL** to return to the "Test Assets - REXX Executables Screen".

– **D** deletes a REXX executable from the list of datasets. Delete does not offer a delete confirmation screen.

Asset Functions

Option 7 - Functions

Functions are created as a grouping mechanism. After you create your functions, as defined below, you can reference them when creating test assets by selecting option 3, 4, 5, and 6 on the "Asset Management Screen" (Figure 4-1 on page 4-10). Alternatively, you can create your functions as you need them by specifying a new function name when creating or updating a test asset. When a non-existent function is specified, an Add Function popup will appear. The purpose of functions is to group assets.

1. On the "Asset Management Screen", select **7 Functions**. The "Test Assets - Functions Screen" appears (Figure 4-22). This screen contains a list of existing Functions to use with this ATV.

Figure 4-22. Test Assets - Functions Screen

```
Hiperstation ------------ Test Assets - Functions ----------------- Row 1 of 1
Command ===>                                                 Scroll ===> PAGE

Line commands are: (A)dd (D)elete (U)pdate

ATV name. . ATVTEST3        Application being tested Hiperstation

S Function Description
- -------- ---------------------------------------------
  COMMON   assets used across many or all app. function
****************************** BOTTOM OF DATA ********************************
```

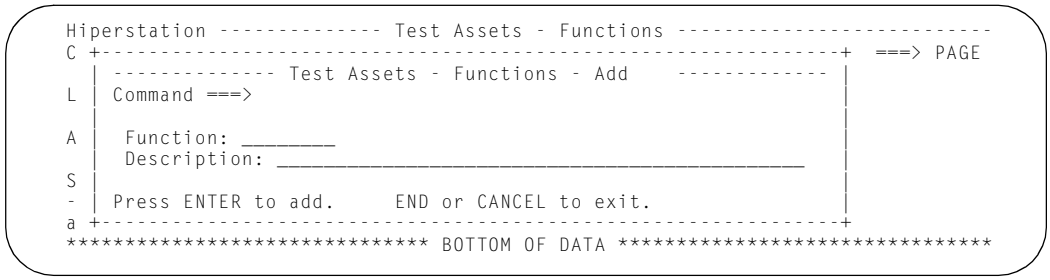
On this screen you can choose to add, update, or delete a function from the selected ATV.

2. To add or change functions, type **A** (add) or **U** (update) next to a function and press Enter. To delete a function, type **D** (delete) and press Enter.

   – **A** opens the "Test Assets - Functions - Add Screen" (Figure 4-23). On this screen, you can add a new function to the list of functions for this ATV. Fill in the Function name and optional Description for the selected ATV.

     Press Enter to add a new function and open another Add screen to add additional Functions. Use **END** or **CANCEL** to return to the "Test Assets - Functions Screen" without adding a new function.

Figure 4-23. Test Assets - Functions - Add Screen



Note: The Add and Update screens contain the same fields.

   – **U** opens the "Test Assets - Functions - Update Screen". On this screen, the fields are prefilled with the information you entered on the Add screen. You can change the Description.

     Press Enter to save your changes and return to the "Test Assets - Functions Screen", or use **END** or **CANCEL** to exit without saving your changes.

   – **D** deletes a function from the list of functions. Delete does not offer a delete confirmation screen.

Chapter 5.
Create, Maintain, and Delete 3270 Test Scripts

3270 ATV Scripts

1. From the “Hiperstation - Product Menu”, select **4 Hiperstation ATV Manager**. The “Automated Testing Vehicle List Screen” appears.
2. Open an ATV by typing an **O** on the desired ATV. The “Automated Testing Vehicle Screen” appears.
3. Select option **2, 3270 Test Scripts** on the “Automated Testing Vehicle Screen”. The “ATV 3270 Scripts Screen” appears (Figure 5-1).

Figure 5-1. ATV 3270 Scripts Screen

```
Hiperstation ----------------- ATV 3270 Scripts ----------------- Row 1 from 2
Command ===>                                                    Scroll ===> CSR

Primary commands: Import, Capture, Tools

Line commands:. . (I)nformation, (U)pdate, (S)ession demo, (E)dit, (D)elete

ATV Name. . TRAINING        Application Being Tested acme
Description for training

S Name     TPF      Function Description
- ******** ******** ******** ************************************************
_ SCR00000          COMMON
****************************** Bottom of data ********************************
```

4. On the “ATV 3270 Scripts Screen”, issue a primary or line command.

   To create a new ATV 3270 script, issue a primary command:

   – **Import** an already existing script (see “Import 3270 ATV Scripts” on page 5-2)

   – Connect to a domain via Domain Traveler to **Capture** a script on another domain (see “Capture 3270 ATV Scripts” on page 5-2).

   – Use **Tools** to access one of the Hiperstation Script Processors (“3270 ATV Scripts — Tools” on page 5-3).

   To work with an existing ATV 3270 script, use one of the line commands.

   – (**I**)nformation — The “ATV 3270 Script Information Screen” appears (see “3270 ATV Script Information” on page 5-4).

   – (**U**)pdate — The “Update ATV 3270 Script Information Screen” appears (see “Update 3270 ATV Script Information” on page 5-5).

   – (**S**)ession demo — The “Hiperstation * Demonstration Setup Screen” appears (see “Session Demonstration Setup” on page 5-6).

   – (**E**)dit — The desired script appears allowing you to edit it (see “Edit a 3270 ATV Script” on page 5-7).

   – (**D**)elete — The ATV 3270 script is deleted (see “Delete a 3270 ATV Script” on page 5-7).

CAUTION:
Deleted scripts will be unavailable for any test cases that use them.

Import 3270 ATV Scripts

Import retrieves scripts from an existing Hiperstation script file, searches the script for some identifying information, catalogs the script in the ATV database, and stores the script in the ATV's script file.

1. Type **I** on the "ATV 3270 Scripts Screen" command line (Figure 5-1). The "Import 3270 Script Screen" appears (Figure 5-2).

Figure 5-2. Import 3270 Script Screen

```
Hiperstation  ---------------- Import 3270 Script ----------------------------
Command ===> ____________________________________________________________

Script Data Set:
 Project . . . . . USER3270
 Group . . . . . . HIPER __
 Type  . . . . . . SCRIPT__
 Member. . . . . . ________ (Blank or pattern for member selection list)

Other Partitioned Data Set:
 Data Set Name . . . ____________________________________________________

  N Enter "/" to replace like-named members

    Press Enter to continue or END to terminate
```

2. On this screen, enter the name of an existing script dataset. You can leave the member field blank. When you press Enter, the "Import 3270 Script - Member List Screen" will appear containing a list of members for the script you entered (Figure 5-3).

Figure 5-3. Import 3270 Script - Member List Screen

```
Hiperstation ------ Import 3270 Script - Member List ------ Row 00001 of 00378
Command ===>                                                 Scroll ===> CSR

Select member to import then press ENTER or END to return.

Line Command: (S)elect

   Name     Prompt          Size    Created          Changed            ID
  LOG00000                 1543   2006/12/19   2006/12/19 15:04:26    USER3270
  SCR00000                  373   2004/06/07   2006/07/13 11:10:06    USER3270
  SCR00001                  458   2004/03/23   2004/03/23 15:17:16    USER3270
```

3. Type an **S** to select the scripts you want to import. A message will appear in the prompt column stating that the member was imported.
4. Use END to return to the "Import 3270 Script Screen".

Capture 3270 ATV Scripts

Capture links to the Hiperstation Domain Traveler facility to capture new scripts.

1. Type **C** (capture) on the "ATV 3270 Scripts Screen" command line (Figure 5-1). The "Hiperstation * Domain Traveler Screen" appears (Figure 5-4).

Notes:

1. For detailed information on how to use the Domain Traveler, refer to the online help or the "Online Testing of 3270 Applications" chapter in the *Hiperstation for VTAM User Guide*.
2. Newly captured scripts must still be imported to be used by the ATV.

Figure 5-4. Hiperstation * Domain Traveler Screen

```
------------------------ Hiperstation * Domain Traveler -----------------------
Command ===>

  Use this panel to connect to one of your site's domains.  When
  connected you can record your session or play back previous sessions.

   Domain Destination .

   _ Change session options (Enter "/")


    Start = ISPF , Zoom = PF23 , LUName = Default  , Restore Keyboard
    Logmode = SNX32702 , Model = 2-(24X80) , SNA = Yes , Queriable = Yes
    Application Profiling(Off) , IMS = Y
```

The Domain Traveler allows you to stay within ISPF and access Domain Destinations such as CICS or IMS/DC regions under which your business applications are run. On this screen you can select the Domain Destination you want to connect to.

2. Enter a Domain Destination.
3. To change your session options, enter a "/". The "Session Options Screen" appears where you can change your PF key settings and numerous other session options.
4. Make your desired changes and press END to return to the "Hiperstation * Domain Traveler Screen" or press Enter to navigate to the Domain Destination you specified. At this point you can record, play, or perform other Domain Traveler tasks.

3270 ATV Scripts — Tools

Tools links to Hiperstation Script Processing tools.

1. Type **T** (Tools) on the "ATV 3270 Scripts Screen" command line (Figure 5-1 on page 5-1). The "Script Processors Screen" appears (Figure 5-5).

Figure 5-5. Script Processors Screen

```
Hiperstation ---------------- Script Processors -------------------------------
Option  ===>


  1  REXX Processor              Create "Smart" Script(s)
  2  Date Change                 Change Year Formats for Date Testing
  3  Date Find                   Report Location(s) of Date Field(s)
  4  Input Field Formats         Change Input Fields to Row/Column Format
  5  MultiChange Processor       Update Scripts to Reflect Application Changes
  6  Security Script Processor   Locate and Modify Passwords
  7  Euro                        Euro Script Utility
  8  GST                         GST Testing Utility
  9  Message Filtering           Message Filtering Utility
```

Note: See **Chapter 6, "Script Processors"** for an overview of the script processors. See the online help or the *Hiperstation for VTAM User Guide* for detailed information on how to use the Hiperstation script processors.

The Hiperstation script processors help you work with your scripts. You can automate:

- REXX code generation
- Input date changing and date field location reporting for date processing tests
- Input field reformatting for changing script input field formats from relative sequence numbers to row and column positions

2. Type the number of the script processor you want to use on the Option line and press Enter.
   - 1. REXX Processor — helps you prepare scripts for playback. It automatically writes REXX routines into previously recorded Hiperstation scripts.
   - 2. Date Change — simplifies testing for projects where date fields are changed or altered. It can change the year portion of a date to a four-digit year. It can also change dates appearing on output screens.
   - 3. Date Find — simplifies testing for projects where date fields are changed. It can search a recorded script and find date fields in its output screens. It then lists the date fields that it finds in a report.
   - 4. Input Field Formats — changes input fields from the relative sequence number format <Inn> to the row,column location format <I(rr,cc)>.
   - 5. MultiChange Processor — automates modification of scripts. You can add inputs to a screen, move input data, replace data contained in an input field, and delete input fields. You can also add scripts to existing scripts and remove specific interactions from a script.
   - 6. Security Script Processor — searches for and updates obsolete passwords so that scripts can be played back in batch mode.
   - 7. Euro — allows you to modify screens. You can change the contents of a field, delete a field, copy a field to a different part of the screen, change a currency value, add a new field to a screen, and move a field to a different part of a screen.
   - 8. GST — processes outputs in Hiperstation scripts and identifies fields in the user interface to use in calculating an expected GST result.
   - 9. Message Filtering — removes unwanted screens and user inputs from a script. You can use this feature for existing scripts by running EHSFLTR or for new scripts from within Global Recording.
3. After performing your script processor tasks, press END until you return to the "ATV 3270 Scripts Screen".

3270 ATV Script Information

Information displays the catalogue information for the selected script.

1. Type **I** (information) next to the desired script on the "ATV 3270 Scripts Screen" (Figure 5-1 on page 5-1) and press Enter. The "ATV 3270 Script Information Screen" appears (Figure 5-6).

Figure 5-6. ATV 3270 Script Information Screen

```
Hiperstation  ---------- ATV 3270 Script Information --------------------------
Command ===>

 ATV name. . ATVTEST3        Application being tested Hiperstation

  Script Name SCR00000
  Function .  COMMON
  Description

  Terminal processing facility (TPF)
  Terminal logmode . . . . . . . . .

  Script version . . . 7
  Script imported from USER3270.HIPER.SCRIPT


 Use END to return.
```

The fields on this screen are prefilled based on the ATV 3270 script selected and cannot be edited.

2. After viewing the information, press END to return to the "ATV 3270 Script Information Screen".

Update 3270 ATV Script Information

Update displays the catalogue information for the selected script and allows appropriate fields to be updated.

1. Type **U** (update) next to the desired script on the "ATV 3270 Scripts Screen" (Figure 5-1) and press Enter. The "Update ATV 3270 Script Information Screen" appears (Figure 5-7).

Figure 5-7. Update ATV 3270 Script Information Screen

```
Hiperstation  ------- Update ATV 3270 Script Information ----------------------
Command ===>

 ATV name. . ATVTEST3        Application being tested Hiperstation

  Script Name SCR00000
  Function .  COMMON__
  Description ____________________________________________________________

  Terminal processing facility (TPF) ________
  Terminal logmode . . . . . . . . . ________

  Script version . . . 7
  Script imported from USER3270.HIPER.SCRIPT

 Use ENTER to update, use END to return.
```

Note: The fields on this screen are prefilled based on the script selected and are initially set during script import. You can change the Function, Description, Terminal Processing Facility (TPF), and Terminal logmode. You cannot change the other information. To use different information, press END to return to the "ATV 3270 Scripts Screen" and select a different script. This information will be used when adding a replay step to a test case.

2. After making your changes, press Enter to save your changes and return to the "ATV 3270 Scripts Screen" or press END to return without saving your changes.

Session Demonstration Setup

Session Demo is a script demonstration tool. It plays 3270 scripts without running the application from which the scripts were derived. You can use it to inspect a script's contents, train personnel, and demonstrate the screen flows of application prototypes.

1. Type **S** (Session Demo) next to the desired script and press Enter. The "Hiperstation * Demonstration Setup Screen" appears (Figure 5-8).

Figure 5-8. Hiperstation * Demonstration Setup Screen

```
---------------------- Hiperstation * Demonstration Setup --------------------
OPTION  ===>

Select the Recording and press ENTER  to start the Demo.

RECORDING FILE NAME:
   PROJECT ===>
   GROUP   ===>
   TYPE    ===>
   MEMBER  ===>                  (Blank or pattern for member selection list)

OTHER PARTITIONED DATA SET:
   DATA SET NAME  ===> 'VP.ATV.ATVTEST3.SCRIPTS(SCR00000)'

"ZOOM" key ===> PF23
Begin demo in ZOOM mode ==> N (Y/N)     Begin demo in POP-UP mode ==> N (Y/N)

DEMO/THINK TIME OPTION ===> 1
1 Demo interactively
2 Demo at full speed
3 Demo at Think Time recorded on script
4 Demo at Think Time specified below
Time(ss th) => 01 50 Percent ===> 100
```

2. Specify the **Recording File Name** by entering the dataset name of an existing script in the PROJECT, GROUP, and TYPE fields. MEMBER is the name of the script. If your dataset name does not conform to ISPF naming standards, enter the dataset name, including the member name, in the **Other Partitioned Data Set** field.
3. In the Zoom key field, specify the key that will toggle between Zoom and ISPF display modes. The default is PF23.
4. Specify whether to begin your demo in Zoom mode. Enter **Y** or **N**.
5. Specify whether to start the demo in pop-up mode. Enter **Y** or **N**.
6. Select one of the DEMO/THINK TIME OPTIONs:
   - **1 Demo interactively** — demo proceeds each time your press Enter.
   - **2 Demo at full speed** — transactions play back as quickly as the system can run them.
   - **3 Demo at Think Time recorded on script** — think time is simulated using the thing time recorde4d on the script.
   - **4 Demo at Think Time specified below** — think time for all transactions is the amount of time set in the **Time(ss th)** field.
   - **Time (ss th)** — only valid when you select option 4. Sets the think time for each transaction. Time is measured in seconds and hundredths of a second. For example, 00 75 is three-fourths of a second think time.
   - **Percent** — only valid when you select option 3 or 4. Allows a percentage to be applied to the think time. For example, to play back a script with half of the original think time, set THINK TIME OPTION = 3 and Percent = 50.

7. Press Enter to start the demo, or END to return to the "ATV 3270 Scripts Screen" without playing the demo.

Edit a 3270 ATV Script

Edit invokes ISPF Edit on the selected script.

1. Type **E** (Edit) next to the desired script and press Enter. The "Edit 3270 Script File Screen" appears (Figure 5-9) allowing you to modify the script.

Figure 5-9. Edit 3270 Script File Screen

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
-------------------------------------------------------------------------------
EDIT       VP.ATV.ATVTEST3.SCRIPTS(SCR00000)) - 01.00      Columns 00001 00072
Command ===>                                                 Scroll ===> CSR
****** ***************************** Top of Data ******************************
000001 ********************************************************************
000002 * CREATED BY USER: USER3270 TPF: H01AC013 TIME: 09:06 DATE: 07/14/06   *
000003 * DESC:                                                               *
000004 ********************************************************************
000005 * LU: CW010037   TPF: H01AC013   LOGMODE: SNX32702                    *
000006 ********************************************************************
000007 <VERSION>7
000008 <IMSUNLOK>N
000009 <OUTPUT>0000001
000010 <RESPONSE>00.00.000
000011 <S01>
000012 <S02>
000013 <S03>
000014 <S04>
000015 <S05>
000016 <S06>
000017 <S07>
000018 <S08>
000019 <S09>
```

2. Type **SAVE** on the command line to save changes to your script and use END to return to the "ATV 3270 Scripts Screen".

Delete a 3270 ATV Script

Type **D** (delete) next to the desired script and press Enter. The script is deleted from the ATV and a message appears stating that the script was deleted from the ATV.

CAUTION:

Deleted scripts will be unavailable for any test cases that use them, and there is no delete confirmation.

Chapter 6.
Script Processors

Introduction to the Hiperstation Script Processors

1. To access the Script Processors, select **4 Hiperstation ATV Manager** on the "Hiperstation - Product Menu". The "Automated Testing Vehicle List Screen" appears.
2. Open an ATV by typing an **O** beside the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select option **2 Test Scripts** on the "Automated Testing Vehicle Screen". The "ATV 3270 Scripts Screen" appears (Figure 5-1 on page 5-1).
4. Select **Tools**. The "Script Processors Screen" appears (Figure 6-1).
5. Select option 1 through 9 for the type of script processor you want to use.

Note: This chapter provides an overview of the script processors. For complete details on how to use the script processors, see the online help or the *Hiperstation for VTAM User Guide*.

Figure 6-1. Script Processors Screen

```
Hiperstation ---------------- Script Processors -------------------------------
Option  ===>


  1  REXX Processor              Create "Smart" Script(s)
  2  Date Change                 Change Year Formats for Date Testing
  3  Date Find                   Report Location(s) of Date Field(s)
  4  Input Field Formats         Change Input Fields to Row/Column Format
  5  MultiChange Processor       Update Scripts to Reflect Application Changes
  6  Security Script Processor   Locate and Modify Passwords
  7  Euro                        Euro Script Utility
  8  GST                         GST Testing Utility
  9  Message Filtering           Message Filtering Utility
```

The following sections give a brief description of the Hiperstation Script Processors.

REXX Processor

The REXX script processor automates writing REXX routines in Hiperstation for VTAM scripts. It helps you create "smart" scripts. The REXX script processor modifies previously recorded scripts and inserts REXX instructions and routines into them. REXX provides logic in the scripts to enhance the playback process. The logic in these processed scripts automatically handles common obstacles that occur when testing applications such as SAP.

For detailed information on the REXX Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **1 REXX Processor**. The "REXX Script Processor * Primary Options Screen" appears (Figure 6-2).

Figure 6-2. REXX Script Processor * Primary Options Screen

```
Hiperstation --------- REXX Script Processor * Primary Options --------------
Option ===>

   1 Data Replacement                3 List Processing
   2 Date Recalculation              4 Synchronization
  Go Begin Execution                 5 Multi-Field Date Recalculation
                                     C Convert Control File

Specify the name of the control file below, then press Enter key

  Project . . .
  Group . . . .
  Type  . . . .
  Member. . . .

Other Data Set Name:
  Data Set Name . . .
```

2. Enter the name of the control file.

   The control file can be a PDS member or a sequential file. Fixed block record format and a record length of 80 bytes is recommended. If your control file name does not conform to ISPF naming standards, enter the dataset name, including the member name, in the Other Data Set Name field.

3. After the control file is specified, select one of the following options.

   – **1 Data Replacement** — When a recorded Hiperstation script contains an application-generated field on a screen that is keyed in an input field later in the script, the data replacement feature will replace the original recorded input field value with the value that is generated by the application during the playback.

   – **2 Date Recalculation** — When a recorded Hiperstation script contains user-keyed or application-generated dates, the date recalculation feature replaces specified dates with new dates when the script is played back. The new date is recalculated relative to the date of the playback. Saturdays and Sundays can be bypassed with the WEEKDAY ONLY option.

   – **3 List Processing** — When a recorded Hiperstation script contains a screen that provides rows that can be selected, the list processing feature selects the same row during playback that was selected during recording even if the row has changed its position in the list. The row can even be on a different list screen page.

   – **4 Synchronization** — When unexpected application messages pop up, the script can easily get out of synch as it is played back. The synchronization feature detects these messages in the recorded script and when they pop up during the playback, it takes the appropriate action to handle the message and to stay in synch with the application being tested.

   – **5 Multi-Field Date Recalculation** — When a recorded Hiperstation script contains user-keyed or application-generated dates, the date recalculation feature replaces all of those dates with new dates when the script is played back. The new date is the original date recalculated relative to the date of the playback.

   – **C Convert Control File** — This utility converts control files used by Hiperstation REXX Script Processors at releases prior to 6.1.0 to the format required by releases 6.1.0 or more current. If the control file is PDS, you can convert all PDS members at once, or perform a selective conversion. Also, processing can be done either in foreground or background (batch) mode. It does not validate control file entries. Any unknown keywords found in the control file will be written as they are to the output file.

   – **Go Begin Execution** — After adding the appropriate data replacement, input date recalculation, output date replacement, list processing, synchronization,

and multi- field date recalculation entries to the control file, the Script Processor is ready for execution.

4. Enter the **GO** command on the command option field on the REXX Script Processor Primary Options Panel to begin Script Processor execution.

Date Change Script Processor

The date change script processor allows you to move dates forward in baseline Hiperstation for VTAM scripts. The date change script processor finds date input and output fields (such as a delivery date) in recorded scripts, then transforms the year portion of the date from a two-digit to a four-digit number.

For detailed information on the Date Change Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **2 Date Change**. The "Hiperstation Script Processor * Date Change Options Screen" appears (Figure 6-3).

Figure 6-3. Hiperstation Script Processor * Date Change Options Screen

```
------------- Hiperstation Script Processor * Date Change Options -------------
Option ===>


  1  Single Field Dates  Dates with separators
  2  Multi-Field Dates   Month, Day and Year contained in
                         separate fields
  3  Embedded Dates      Manipulation of Month, Day and Year
                         Fields separately

     Userid . USER2312   Date . . 10/05/10     Time . . 15:37



  Enter END command to return to Hiperstation Script Processor Menu.
```

2. Enter the number of the option you want to use on the Option line.
   - Select **1 Single Field Dates** to convert year values to four-digit format. The "Single Field Date Change Screen" appears. If you use the Single Field Date Change option, specify the Screen ID to process and the dates and date formats to change.
   - Select **2 Multi-Field Dates** to convert year values to four-digit format for dates split into more than one field. The "Multi-Field Date Change Screen" appears. If you use the Multi-Field Date Change option, specify the Screen ID to process and the input and output date change information.
   - Select **3 Embedded Dates** to replace the data for a date. The "Embedded Dates Change Screen" appears. If you use the Embedded Dates Change option, specify the Screen ID to process and the date information to change.
3. Enter the **Go** command to process your date change, or use **END** to cancel the Date Change Script Processor option and return to the "Script Processors Screen" without saving changes.

Date Find Script Processor

The Date Find Script Processor assists in testing applications where dates are important. It searches through the output screens of recorded Hiperstation scripts and finds date fields. The date fields that it finds are listed in a report.

For detailed information on the Date Find Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **3 Date Find**. The "Hiperstation Script Processor * Date Find Screen" appears (Figure 6-4).

Figure 6-4. Hiperstation Script Processor * Date Find Screen

```
------------------ Hiperstation Script Processor * Date Find ------------------
Command ===>

       Go Begin Date Find Execution
      END Return to Hiperstation Script Processor Primary Option Panel

Enter date find information:
   Date Separator Character. .    (Enter N for no date separator)
   Date Format . . . . . . . .    (1-14)
      1. MMDDYY   5. MMDDYYYY    9. DDMONYY    13. YYYYMON
      2. DDMMYY   6. DDMMYYYY   10. DDMONYYYY  14. MMYYYY
      3. YYMMDD   7. YYYYMMDD   11. YYMON
      4. YYDDD    8. YYYYDDD    12. MMYY

Specify the date find report file name:

   Project . . .
   Group . . . .
   Type  . . . .
   Member. . . .
Other Data Set Name:
   Data Set Name . . .
```

2. Enter the date separator character. This is the character that separates the day, month, and year.
3. Select a date format that describes the format of the date field to be found. This is the arrangement of the day, month, and year date parts. Valid date formats are **1** through **14** (Figure 6-4).
4. Specify the Date Find Report File Name. This is the name of the dataset used to store the Date Find Location Report. If the file does not exist, you are prompted to provide one with a dataset allocation screen. The dataset must be a dataset member or a sequential file. The recommended record format is fixed block with 80-byte record length.
5. If your Date Find Report File Name does not conform to ISPF naming standards, enter the dataset name, including the member name, in the Other Data Set Name field.
6. Enter **GO** to begin the date find execution or press **END** to return to the Hiperstation "Script Processors Screen".

Input Field Formats Script Processor

The Input Field Reformat Script Processor changes input field formats in Hiperstation scripts from the relative sequence number format, **<Inn>**, to the row and column location format, **<I(rr,cc)>**.

Example reformat:

```
BEFORE                                  AFTER
<INPUT>0000004                          <INPUT>0000004
<THINK>00.07.922 AT 00:00:12.557        <THINK>00.07.922 AT 00:00:12.557
<KEY>ENTER                              <KEY>ENTER
<CURSOR>00,04                           <CURSOR>00,04
<I01>"cemt"                             <I(1,1)>"cemt"
</INPUT>                                </INPUT>
```

Each format type has advantages and disadvantages. For example, the **<Inn>** format makes it easy for scripts to play back correctly, even if the application input fields have a different location on the screen, as long as the fields remain in the original sequence. The **<I(rr,cc)>** format makes it easy for scripts to play back correctly, even if new input fields are added to the application screens.

For detailed information on the Input Field Formats Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **4 Input Field Formats**. The "Hiperstation Script Processor ***** Change Input Field Formats Screen" appears.

Figure 6-5. Hiperstation Script Processor * Change Input Field Formats Screen

```
---------- Hiperstation Script Processor * Change Input Field Formats ---------
Command ===>

       Go Begin Input Field Reformat Processing
      END Return to Hiperstation Script Processor Primary Option Panel

Type the names of the script data sets below, then press Enter key
Do not specify the script/member name

Input Script Data Set:
   Project . . .
   Group . . . .
   Type  . . . .

Other Partitioned Data Set:
   Data Set Name . . . 'VP.ATV.ATVTEST3.SCRIPTS(SCR00000)'
Output Script Data Set:
   Project . . .
   Group . . . .
   Type  . . . .
Other Partitioned Data Set:
   Data Set Name . . . 'VP.ATV.ATVTEST3.SCRIPTS(SCR00000)'
```

2. Type the name of the dataset containing the scripts to be processed and the dataset name to use for storing processed scripts. Enter only file names, not member/script names.
3. Enter the **GO** command to process the change request or use **END** to exit the input field reformat script processor and return to the "Script Processors Screen".

MultiChange Script Processor

The MultiChange script processor allows you to change scripts to reflect application changes without re-creating those scripts. This script processor creates and maintains these modification requests and runs them in background or foreground mode.

Note: Hiperstation for VTAM determines century dates based on the LOW_YEAR and HIGH_YEAR parameters set by the installer. For more information, refer to the *Hiperstation Installation and Configuration Guide*.

For detailed information on the MultiChange Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **5 MultiChange Processor**. The "MultiChange Script Facility Primary Options Screen" appears (Figure 6-6).

Figure 6-6. MultiChange Script Facility Primary Options Screen

```
Hiperstation --- Multichange Script Facility Primary Options ----------------
Option ===>

   1 Maintain Input Fields Values          3 Add Script
   2 Modify Output Screen                  4 Erase Interaction
  Go Process Requests

Specify the name of the control file below, then press Enter key

   Project . . .
   Group . . . .
   Type  . . . .
   Member. . . .

Other Data Set Name:
   Data Set Name . . .
```

2. Enter the name of the script processor control file.

   The control file can be a PDS member or a sequential file. Fixed block record format and a record length of 80 bytes is recommended. If your control file name does not conform to ISPF naming standards, enter the dataset name, including the member name, in the Other Data Set Name field.

3. After the control file is specified, type the number for one of the following options on the Option line and press Enter or, if you do not wish to select one of these options, go to step 4.

   – Option **1 Maintain Input Fields Values —** the "Maintain Input Field Value Item List Screen" appears. If the control file already contains Modify Output screen entries, they appear on the screen. If no entries exist, the message **** none **** appears.

   – Option **2 Modify Output Screen —** the "Modify Output Screen Item List Screen" appears. If the control file already contains Modify Output Screen entries, they are listed on the screen. If no entries exist, **** none **** appears.

   – Option **3 Add Script —** the "Add Script Item List Screen" appears.

   – Option **4 Erase Interaction —** the "Erase Interaction Screen" appears. An **interaction** is an output from the TPF and the subsequent input from the user. Use the erase interaction request to remove specific interactions from a script (for example, a sign-on screen and the subsequent user ID and password).

4. If you do not wish to select any of the options listed on the "MultiChange Script Facility Primary Options Screen", enter **GO** on the Option line and press Enter to begin execution.

Security Script Processor

As scripts age, the passwords they contain can become invalid when users change their passwords. If a script contains obsolete passwords, you cannot play them back without user intervention, and you cannot play them back in unattended mode. To correct this, use the Security Script Processor to search for and update obsolete passwords.

For detailed information on the Security Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the “Script Processors Screen”, select option **6 Security Script Processor**. The “Security Script Processor Screen” (Figure 6-7).

Figure 6-7. Security Script Processor Screen

```
Hiperstation -------------  Security Script Processor ---------------
Command ===>

   Enter to continue

Specify the dataset which contains the scripts:
   Project . . .
   Group . . . .
   Type  . . . .
   Other DSN . . 'VP.ATV.ATVTEST3.SCRIPTS(SCR00000)'
   Member. . . .              (Blank or '*' to list all members
                                  or pattern for member selection list)

Specify the dataset to which the modified scripts will be written:
   Project . . .
   Group . . . .
   Type  . . . .
   Other DSN . . 'VP.ATV.ATVTEST3.SCRIPTS(SCR00000)'
```

2. Enter one or more of the following on this screen:
   - Name of the source script whose passwords have expired
   - Script or script name pattern (for example, MYSCR*)
   - Name of the dataset where Hiperstation for VTAM stores the modified scripts
3. Press Enter. If all entries are valid, the “Security Password Modification Screen” appears.

Euro Script Utility

The Euro script utility is an optional feature. If you are not licensed for the Euro script utility, you will not be able to access it.

The EURO script utility is a feature that allows you to change Hiperstation for VTAM 3270 formatted scripts. It searches selected scripts for any user-defined currencies and, if desired, makes the conversion from one currency to another. This utility enables you to add, delete, alter, copy, and move fields within a screen. The fields can be part of an OUTPUT or INPUT message. The utility is able to add new screens as well.

The EURO script utility presents a series of ISPF screens in a preset sequence. These screens are used to set up the following:

- Input Hiperstation for VTAM script
- Output Hiperstation for VTAM script
- Control cards
- Currency cards

Note: If no output Hiperstation for VTAM script is present, the EURO script utility runs in report mode. Report mode executes all of the control cards given, but does not save any changes to the scripts.

After setting up these items, you can run the utility in TSO foreground or background (batch) mode.

For detailed information on the Euro Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. On the "Script Processors Screen", select option **7 Euro**. The "Euro Script Utility Screen" appears. (Figure 6-8).

Figure 6-8. Euro Script Utility Screen

```
Hiperstation ------------ EURO Script Utility -------------------------
Command ===> ____________________________________________________________

Input Script:
 Data Set Name . . . ____________________________________________
   Member Name . . . ________    (Blank or pattern for member selection list,
                                  "*" for all members)

Output Script:
 Data Set Name . . . ____________________________________________

Control File:
 Data Set Name . . . ____________________________________________
   Member Name . . . ________

Currency File:
 Data Set Name . . . ____________________________________________
   Member Name . . . ________

 _ Replace Like Script Member(s)
 _ Update control file only
 _ Update currency file only
```

2. Enter your input and output script dataset names, an input member filter, and the control file names for your control cards and/or currency cards.
3. Select Replace Like Script Member(s), Update Control File only, or Update Currency File only, if desired.

Note: If the currency file and control file are different datasets, they must have the same record format, record length, and block size.

GST (Goods and Services Tax) Testing Utility

Note: The GST Testing Utility is an optional feature. If you are not licensed for the GST Testing Utility, you will not be able to access it.

The GST Testing Utility locates up to five fields that you specify on output screens and makes them available for use in REXX routines that you write. The fields include an item code, three user-defined fields, and an actual result.

The GST Testing Utility also allows you to read a VSAM file in a REXX routine. The VSAM read command, HSCMDS "GETVSAMR", allows random access of an external VSAM file.

For detailed information on the GST Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. Select option **8 GST**. The "REXX Script Processor ***** GST Testing Utility Screen" appears (Figure 6-9).

Figure 6-9. REXX Script Processor * GST Testing Utility Screen

```
Hiperstation --- REXX Script Processor * GST Testing Utility ---  ------------
Option ===>

   1 GST Testing Utility
  Go Begin Execution

Specify the name of the control file below, then press Enter key

  Project . . .
  Group . . . .
  Type  . . . .
  Member. . . .

Other Data Set Name:
  Data Set Name . . .

Execution Parameters:
GST VSAM DATASET NAME . . .
 (full name)
User GST Proc Name    . . .          (Default: GSTPROC)
```

2. Enter the Control File name.

   Note: If your Control File Name does not conform to ISPF naming standards, enter the dataset name, including the member name, in the Other Data Set Name field.

3. Enter a GST VSAM Dataset Name — the VSAM dataset the new script will retrieve. If you do not provide this name, Hiperstation inserts 'xxxxxxxx.xxxxxxxx.xxxxxxxx'.
4. Enter a User GST Proc Name — the REXX routine and member name of the output script dataset to call from the new script. If you do not provide this name, Hiperstation uses GSTPROC.
5. Select whether you want to execute an existing request or go to an entry screen to create or update GST requests.
   - **1** accesses the "Hiperstation REXX Script Processor - GST Screen", where you can add, update, delete, or browse GST requests.
   - **GO** executes the GST request. This creates a new script containing the information specified in the GST request.

Message Filtering Script Processor

Hiperstation for VTAM's Message Filtering function creates new scripts by taking existing scripts and removing certain messages. This function determines which messages to include and which to exclude. You can use this function to:

- Simplify testing by producing scripts that contain a single message allowing you to test one message at a time
- Remove messages that contain confidential data
- Reduce script size by eliminating messages of no interest

To filter a script, choose the messages to include or exclude by describing the screens in those messages. You do not have to describe the screens exactly, and you do not have to describe every screen. Often, you can describe just the first and last screens of a message, and Hiperstation includes or excludes everything in between.

In addition to filtering based on screen descriptions, you can filter based on the user input contained in the script, such as pressed function keys and typed data. For example, If you know that a message starts when the user types **PAYR** and presses Enter, you can

have Hiperstation start including screens from the script when those conditions are met.

The message filter function can also filter unformatted scripts. These types of scripts are usually produced for sessions involving LU0 devices, such as financial terminals. In these cases, there are no recorded screens. You choose the start and end of the messages by describing the content of the unformatted data streams.

For detailed information on the Message Filtering Script Processor, see the online help or the *Hiperstation for VTAM User Guide*.

1. Select option **9 Message filtering**. The "Message Filtering * Primary Options Screen" appears (Figure 6-10).

Figure 6-10. Message Filtering * Primary Options Screen

```
Hiperstation ----------- Message Filtering * Primary Options -----------------
Option ===>

Enter Filter dataset name and select option, then press ENTER

   Filter dataset . .

 1 Generate Message Filtering REXX exit for   Formatted Scripts
 2 Generate Message Filtering REXX exit for Unformatted Scripts
 3 Execute Message Filtering
 4 Override Defaults
```

2. Enter the name of a PDS to hold the filters, select the option you wish to use, and press Enter.

   If the dataset name you have entered does not exist, the "Allocate Filter Dataset Screen" appears. The filter dataset is the dataset that will contain the REXX exit programs you will use to filter your scripts. Enter the volume serial, space units, primary and secondary quantities, directory blocks, record format, record length, and block size press Enter to allocate the dataset.

   Note: Specifications (the information you type or select on the various message filtering forms) are contained in a control script located in a member with the same name as your message/transaction, prefixed by a # sign. For example, if your message/transaction is named test1, the control script for this dataset is named #test1.

   These scripts are created when you issue the **GO** primary command to create the REXX exit program that will filter your scripts. If this control script already exists, Hiperstation reads it when you enter the Message/Transaction name you supply in the next step, and will display the specifications on all subsequent screens for you to view or change.

3. The "Message Filtering * Primary Options Screen" reappears. Type one of the four option numbers on the Option line and press Enter.
   - Option **1** generates the REXX exit program for formatted scripts.
   - Option **2** generates the REXX exit program for unformatted scripts.
   - Option **3** runs the REXX exit program.
   - Option **4** allows you to change some message filtering defaults.

Chapter 7.
Create, Execute, and Maintain Test Cases

Working with Test Cases

1. From the "Hiperstation - Product Menu", select **4 Hiperstation ATV Manager**. The "Automated Testing Vehicle List Screen" appears.
2. Open an ATV by typing an **O** on the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select option **3 Test Cases**. The "Test Cases Screen" appears showing a list of test cases in this ATV (Figure 7-1).

Figure 7-1. Test Cases Screen

```
Hiperstation -------------------- Test Cases -------------------- Row 1 from 1
Command ===>                                                  Scroll ===> PAGE

Primary commands: Create

Line commands:. . (O)pen, (C)opy, (D)elete, (R)un

ATV Name. . HLM0608A        Application Being Tested HIPERSTATION
Description PERFORMANCE VEHICLE

S TestCase Function Status    Description
- *******  ******** ********  ************************************************
  TST10A   COMMON   Incomplet
  TST10B   COMMON   Approved
  TST10C   COMMON   Hold
  TST10D   COMMON   Incomplet
****************************** Bottom of data ********************************
```

From this screen you can decide what you want to do with test cases — create a new test case or open, copy, run, or delete an existing test case. See the following sections for information on how to perform these tasks.

Note: A safeguard prevents inadvertent test case updates of test cases in production status (Approved, Pass, Fail, or Bug). To make changes to test cases in production status, you must first change the test case status from a production status to Repair or Hold. A note appears at the bottom of the screen for test cases that you cannot modify without changing the status.

Creating a New Test Case

1. Type **C** (create) on the "Test Cases Screen" command line. The "Create Test Case Screen" appears (Figure 7-2).

Figure 7-2. Create Test Case Screen

```
Hiperstation  ----------------- Create Test Case ------------------------------
Command ===>

ATV Name . . . ATVTEST3

 Identify new test case:
  Test Case Name
  Function . . . COMMON

  Description

 Specify new test case name, function and description.
 Press ENTER to create new test case, use END to cancel.
```

2. Type a name for your test case. The name can be up to seven characters long.
3. The Function is prefilled with the function specified in your ATV. You can change it if desired. The function can be up to eight characters long.
4. Type a description (optional) for the test case. The description makes it easier to locate the correct test case when needed.
5. Press Enter to create your new test case. The "Test Case Notepad Screen" appears (Figure 7-3)

Figure 7-3. Test Case Notepad Screen

```
Hiperstation  ---------------- Test Case Notepad -------------------------------
Command ===>

ATV name .  ATVTEST3
Test Case.  NEWTST1    Function COMMON__
Description  HLM's first test case_____________________________________________

Notes: ____________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

Enter notes, special instructions, or any other information
you wish to keep with this test case into the Notes section.

Press ENTER to save, use END to cancel.
```

6. Enter any notes, special instructions, or any other information that you need to keep with your test case and press Enter to save the notes and continue. You will return to the "Test Cases Screen" where your test case will now appear in alphabetical order in the list of test cases.

Deleting a Test Case

On the "Test Cases Screen" (Figure 7-1 on page 7-1), type D (delete) next to the test case you want to remove from the list of test cases. It will be removed immediately, and there will be no confirmation screen.

Copying a Test Case

1. On the "Test Cases Screen", type **C** (copy) beside the desired test case. The "Copy Test Case Screen" appears (Figure 7-4).

Figure 7-4. Copy Test Case Screen

```
Hiperstation------------------- Copy Test Case ------------------------------
Command ===> ____________________________________________________________

Identify new test case:
 Source Test case . NEWTST1
 New Test case name NEWTST2
 Function . . . . . COMMON__

 Description ANOTHER TEST CASE ____________________________________________

 Specify new test case name, function and description.
 Press ENTER to create new test case, use END to cancel.
```

2. Type a **Name** for the new test case. The name can be up to seven characters long.
3. The **Function** and **Description** fields are prefilled from the original test case. Modify these fields if desired.
4. Press Enter to create the new test case and return to the "Test Cases Screen". Your new test case will appear in the list of test cases.

Opening an Existing Test Case

1. On the "Test Cases Screen", type **O** (open) beside the test case you want to review or modify. The "Test Case Screen" appears (Figure 7-5).

Figure 7-5. Test Case Screen - Regression Testing

```
Hiperstation --------------------- Test Case ---------------------- Row 1 of 5
Command ===>                                                 Scroll ===> PAGE

Primary commands: Run, RESults, Approve, Hold, REMediate, Notepad

Line commands:    (I)nsert asset, (R)insert replay, (U)pdate
                  (D)elete, (M)ove (A,B), (P)ass/fail condition

Test Case   MQSCTS1     Test Case Status Pass
Description FIRST TEST CASE FOR MQSC

S Object   Type/TPF P/F? Asset name or Replay 3270 script list
- -------- -------- ---- ------------------------------------------------------
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.INPUT.REPO
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.OUTPUT.LOG
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.OUTPUT.SCR
_ Asset    JCL      None VP.ATV.USER2312.JCL(MQCSTS1)
_ Asset    JCL      Pass VP.ATV.USER2312.JCL(MQCSTS1C)
****************************** Bottom of data ********************************
```

Figure 7-6. Test Case Screen - Performance Testing

```
Hiperstation ---------------------- Test Case ----------------- Row 1 to 1 of 1
Command ===>                                                   Scroll ===> PAGE

Primary commands: Run, RESults, Approve, Hold, Notepad

Line commands:    (I)nsert asset, (R)insert replay, (U)pdate
                  (D)elete, (M)ove (A,B)

Test Case   PERF1       Test Case Status Incomplete
Description TEST CASE FOR PERFORMANCE TESTING

S Object   Type/TPF Asset name or Replay 3270 script list
- -------- -------- ------------------------------------------------------
  Asset    Userid   MACH1   :USER242
****************************** Bottom of data ********************************
```

2. Issue the command to perform the desired task.

   Notes:

   – The “Test Case Screen” is slightly different for performance testing. The Pass/Fail line command is not available since test results are based on communication speed and response times from the application and not detail data. Therefore, the return code from a job is irrelevant and the P/F? column also does not appear on the screen. Since Pass/Fail is determined by timings, the Performance Vehicle requires timing thresholds and percentages in order to determine if a test passed or not. These values are required on the same screen that displays the playback parameters. Also, the Remediate primary command is not available since mismatches are unimportant.

   – The Performance Vehicle uses different playback parameters than the Regression Vehicle. The type of vehicle selected dictates the playback parameters displayed.

   – Replays added to performance test cases will be run serially (one after the other) unless they are ordered next to each other in the “Test Case Screen”. If they are grouped together, they will run in parallel (at the same time). Therefore, it is important to group your Replays together for your test cases to run more quickly.

   You can perform many tasks from these screens including:

   Line Commands

   - **(I)nsert asset:** Includes an asset defined to this ATV into this test case (see “Insert Assets” on page 7-5).
   - **(R)insert replay:** Defines a Hiperstation script replay session to this test case (see “Insert Replay” on page 7-6).
   - **(U)pdate:** Further specifies test run information on selected test case step (see “Update Replay” on page 7-10).
     - On **Replay**, adds or removes scripts from this test case, change the order the scripts will be played, and update session settings for this replay session.
     - On **JCL**, specifies JCL test case step settings (opens the “JCL Test Step Settings Screen”). Provides test step scope substitution symbolics and allows viewing the JCL to be run with symbolics resolved.
     - In a performance ATV, on a **Region** asset, Update opens the “Strobe Session Settings Screen”.
   - **(D)elete:** Removes the indicated step item from this test case (see “Delete an Asset or Replay Object” on page 7-11)
   - **(M)ove (A,B):** Moves the indicated step to the step after or before the line selected with the A or B line command, respectively (see “Move an Asset or Replay Object” on page 7-11)
   - **(P)ass/fail condition:** Defines or updates the detection of conditions that indicate this test case step has passed or failed — regression testing only (see “Set Test Case Pass/Fail Conditions” on page 7-12)

Primary Commands

- **Run:** Runs the open test case (see "Run a Test Case" on page 7-13).
- **RESults:** Displays a list of files associated with this test case (see "View Test Case Results" on page 7-14).
- **Approve:** Sets test case status to APPROVED allowing the test case to run with Playlist and Vehicle test run requests (see "Approve Test Case Results" on page 7-16).
- **Hold:** Sets test case status to Hold to restrict execution of the test case on Playlist and Vehicle test run requests (see "Put a Test Case on Hold" on page 7-17).
- **REMediate:** Lets you review script replay mismatch results and apply corrective measures to scripts — regression testing only (see "Remediate Scripts" on page 7-17).
- **Notepad:** Area to document any information specific to this test case (see "Updating the Test Case Notepad" on page 7-20).

Issuing Line Commands

Insert Assets

A Userid asset within a test case can be utilized by a future Replay step. It is available to automatic logon scripts when used in coordination with a Region asset.

A Region asset allows automatic logon/logoff scripts to be utilized by a future replay step. In addition, if the region is a CICS region with Startup JCL specified, this step in the test case will check the availability of the CICS region and, if it is not available, submit the Startup JCL and wait for the region to become available. For this particular case, a return code of zero (0) indicates the region was available, a return code of one (1) indicates the region was not available but was successfully started using the Startup JCL.

For Performance Vehicle testing, if the Performance Vehicle starts the CICS region, it will attempt to stop the CICS region when the Performance Test is complete. This allows CICS region statistics to be used as part of the Pass/Fail criteria. To accomplish a CICS region stop, a Console Terminal must be installed in the CICS regions that the Performance Vehicle will use.

Note: For more information, see the "Terminal Definitions for CICS" section in the manual installation chapter in the *Hiperstation Installation and Configuration Guide*.

A Dataset asset prepares the dataset for use by the test case. Input datasets are recalled from migration if necessary. Output datasets are deleted and reallocated. Work datasets are deleted, reallocated, and restored from a backup.

A JCL asset is submitted, and its return code can be tested using the Pass/Fail option.

1. On the "Test Case Screen", type **I** next to an object to insert an asset. The "Asset Selection Screen" appears (Figure 7-7). See Chapter 4, "Test Assets" for information about test assets.

Figure 7-7. Asset Selection Screen

```
Hiperstation ------------------ Asset Selection -------------------------------
Option  ===>

 ATV name  ATVTEST3        Application being tested Hiperstation
 Test Case NEWTST1         Test Case Status . . . . Incomplete

      Asset Types:
   1  Userids                   Select a tester userid
   2  Regions                   Select a test region
   3  Datasets                  Select an asset dataset
   4  JCL Members               Select test JCL

           Enter END command to return to the Test Case panel.
```

Only the asset types that can be inserted into the selected test case appear in the list.

2. Type a number for the desired asset type on the Option line and press Enter.
   - **1. Userids:** the "Test Assets - Userids Screen" appears with a list of available user IDs from which you can select for this test case.
   - **2. Regions:** the "Test Assets - Regions Screen" appears with a list of available regions from which you can select for this test case.
   - **3. Datasets:** the "Test Assets - Datasets Screen" appears with a list of available datasets from which you can select for this test case.
   - **4. JCL Members:** the "Test Assets - JCL Screen" appears with a list of available JCL members from which you can select for this test case.

   After selecting an asset, you will return to the "Test Case Screen" where your assets will now appear in the asset list. You can insert multiple assets by repeating this step until all of the necessary assets have been added to the test case.

Insert Replay

1. On the "Test Case Screen", type **R** (insert replay) next to an object. The replay will be inserted after the selected object. The "Select a 3270 Script Screen" appears (Figure 7-8).

Figure 7-8. Select a 3270 Script Screen

```
Hiperstation --------------- Select a 3270 Script ------------ Row 1 to 3 of 3
Command ===>                                                  Scroll ===> CSR

Line commands:. . (S)elect

ATV Name. . BRENTREG    Test Case:. TEST1       Domain Destination:
Description

S Name     TPF      Function Description
- -------- -------- -------- ----------------------------------------------------
_ ADDATLA  H01AC013 COMMON    ADD ORDERS FOR AMERICAN FASTENERS
_ ADDBEST  H01AC013 COMMON    ADD ORDERS FOR AMERICAN FASTENERS
_ ADDBOLT  H01AC013 COMMON    ADD ORDERS FOR AMERICAN FASTENERS
```

2. Select a script by typing **S** next to a script name on the "Select a 3270 Script Screen" and press Enter.
   a. Whether you want to perform Regression or Performance testing determines the screens that follow. For Regression testing, the "Session Replay Settings Screen" appears (Figure 7-9). Continue with the next section, "Regression Vehicle Testing".

b. For Performance testing, the "Add Session Replay Screen" appears (Figure 7-10 on page 7-8). Continue with "Performance Vehicle Testing" on page 7-8.

Regression Vehicle Testing

Note: For easier display, the Session Replay Settings screens have been combined. Figure 7-9 shows all of the session replay settings for regression testing. On your actual screen, press **FORWARD** (PF8) or **BACKWARD** (PF7) to view all of the fields.

Figure 7-9. Session Replay Settings Screen for Regression Testing

```
Hiperstation  ------------- Session Replay Settings --------------------------
Command ===> ____________________________________________________________

Specify replay settings for this session.
                                                                  More:     +
 Connection information:
  Domain Destination A01TSO__
  LU name . . . . .  ________   (blank for pool terminals)
  Logmode . . . . .  SNX32702   (blank for automatic selection)
  Logon Data  . . .  ____________________________________  (Optional)
  Infirst . . . . .  N     (Y if no welcome screen on connect to domain)
  Max Wait Time. . .       (Hundredths of seconds)

 Think Time Option
   1 1. Play at full speed
     2. Think time recorded on script
     3. User-specified think time
          Think Time(mm,ss)  __ , __
          Think Time Percent ____

Comparison information:
 Option.  1
 1. Flag on any compare check            2. Flag on alpha differences
 3. Flag only on field number mismatches  4. Ignore all compare differences
 Ignore Numeric Differences  N  (Y/N)
 Lastonly . . . . . .  N  (Y/N)


 Press ENTER to continue, use END to cancel.
```

1. Enter the connection information for your replay. The Domain Destination and Logmode fields will be pre-filled with script information if available. See the online help for descriptions of the individual fields if necessary.
2. Select one of the Think Time Options:
   - **1. Play at full speed:** play the transactions as quickly as the system can run them.
   - **2. Think time recorded on script**: use the think time recorded on the script.
   - **3. User-specified think time:** use think time specified in the Think Time field.

     Think Time (mm,ss): With option **3**, you need to specify the think time value for each transaction. Time can be specified in seconds (ss), tenths (t) of a second, and hundredths (h) of a second. For example, 00 75 specifies 3/4 of a second think time.

     Think Time Percent: Applies a percentage figure to the think time. This option is applicable when option 2 or 3 is selected. For example, to play back a script with half the original think time, select option **2** and type **50** in this field.
3. Select one of the Comparison Information options for flagging mismatches during the replay session:
   - **1. Flag on any compare check:** This option will flag on any compare check. Option 1 is the default.
   - **2. Flag on alpha differences**: This option will flag only on alpha mismatches.

- **3. Flag only on field number mismatches:** This option will flag only on field number mismatches.
- **4. Ignore all compare differences**: This option will ignore all compare differences.

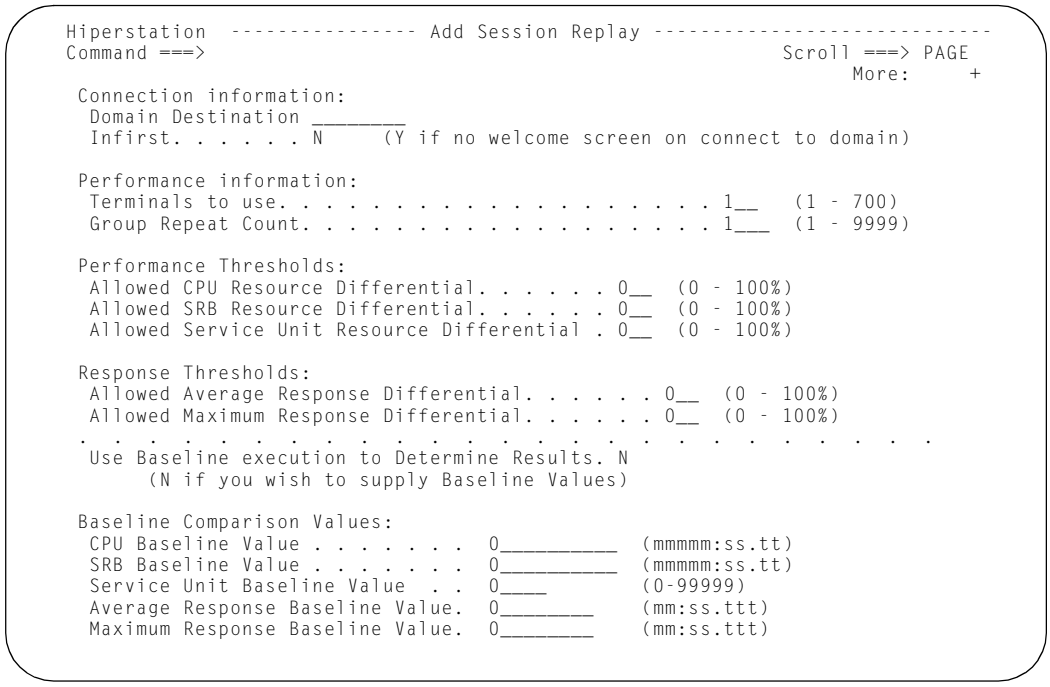
  Note: A return code of 8 is set for the replay test step if a mismatch is flagged. This return code can be tested for a Pass/Fail condition.

- **Ignore Numeric Differences:** Does not consider numeric values when testing for mismatches.
- **Lastonly:** Compares only on the final or compiled screen images set by the application in response to an input.

4. Press Enter to continue and return to the "Test Case Screen". Your replay will now appear in the object list on the "Test Case Screen".

Performance Vehicle Testing

Figure 7-10. Add Session Replay Screen for Performance Testing



The Connection Information fields allow you to specify the Domain Destination the Performance Vehicle will connect to, whether the Domain initiates the session, and how long to wait for a response considering the test is for Region Performance.

1. Enter the **Domain Destination** for this performance vehicle's VTAM application. There is no default.
2. Specify (in the **Infirst** field) whether you want Hiperstation to wait for the domain destination to send data before beginning the script playback or initiate playback without waiting for the initial data stream from the domain destination. Enter **Y** or **N**. **N** is the default.
3. Enter a **Maximum Wait Time** that Hiperstation will wait for the completion of any I/O from connected partners before terminating the playback. Enter a time that is greater than or equal to 1/100th of a second.

The Performance Information fields allow you to specify the number of terminals and the number of times to repeat this entire group of scripts during the performance vehicle execution.

4. In the **Terminals to use** field, enter the number of terminal connections to simulate during the Performance Vehicle execution. This specifies the number of simultaneous connections the playback will establish during the performance vehicle execution. Valid values are **1** to **700**. The default is **1**.
5. In the **Group Repeat Count** field, enter the number of times to run this Replay. This specifies the number of times the performance vehicle will be repeatedly run in a serial manner. Valid values are **1** to **999**. The default is **1**.

The Performance Threshold fields allow you to specify the amount of allowable variance each specific measurement field can have before the result is identified as having failed the Performance Vehicle playback.

6. Enter the amount of allowable variance during the performance vehicle playback in the following fields: **Allowed CPU Resource Differential**, **Allowed SRB Resource Differential**, and **Allowed Service Unit Resource Differential**.

   These values apply to the targeted CICS regions specified for the unattended playback. The validation for these thresholds is only calculated if the performance vehicle has control of the CICS regions for the playback. Valid values are 0 to 100 percent. Zero (0) percent identifies that this resource will be bypassed for calculation. Zero is the default.
7. Enter the amount of allowable variance for the Average and Maximum transaction response time it takes for the targeted CICS regions to reply during the performance vehicle playback. Valid values are between 0 and 100 percent. Zero (0) identifies that this resource will be bypassed for calculation. Zero is the default.

   The response times are determined using the Hiperstation Summary report, which is generated during script playback.
8. Specify whether to **Use Baseline execution to Determine Results**. Enter **Y** if you want to use a previous Baseline execution's results to determine the Pass/Fail status of the current execution. Enter **N** to use the values specified under **Baseline Comparison Values** to determine the Pass/Fail status of subsequent runs. The default is **Y**.

   If you change the value of this field and press Enter, you will return to the "Update Replay Session Screen". Enter the primary command, (**S**)ession settings to return to the "Add Session Replay Screen". The Baseline Comparison fields only appear when they can be used. When **Y** is selected, the Baseline Comparison fields do not appear on this screen. When **N** is selected, the Baseline Comparison fields do appear.

The Baseline Comparison fields allow you to specify the baseline values to use when determining the Pass/Fail status of a Performance Vehicle. These values are normally determined from a baseline execution, however, these fields give the option of bypassing a baseline execution and allowing the values to be determined by the client.

9. When bypassing the use of a baseline execution for performance vehicle validation, specify the values to be used to determine the Pass/Fail status by entering a:
   - **CPU Baseline Value:** the amount of CPU to use for a baseline value when determining Pass/Fail status. The value is Minutes:Seconds:Thousandths in the format mmmm:ss:tt.
   - **SRB Baseline Value:** the amount of SRB to use for a baseline value when determining Pass/Fail status. The value is Minutes:Seconds:Thousandths in the format mmmm:ss:tt.
   - **Service Unit Baseline Value:** the amount of Service Units, in K, to use for a baseline value when determining Pass/Fail status. The value can be up to five numeric characters long.

– **Average Response Baseline Value:** the acceptable Average Response Time to use for a baseline value when determining Pass/Fail status for the application being tested. The value is Minutes:Seconds:Thousandths in the format mm:ss:ttt.

– **Maximum Response Baseline Value:** the acceptable Maximum Response Time to use for a baseline value when determining Pass/Fail status for the application being tested. The value is Minutes:Seconds:Thousandths in the format mm:ss:ttt.

Update Replay

1. On the "Test Case Screen" (Figure 7-5 on page 7-3 or Figure 7-6 on page 7-4), type **U** (update replay) next to the desired Replay object. The "Update Replay Session Screen" appears (Figure 7-11 for regression ATV or Figure 7-12 for performance ATV).

Figure 7-11. Update Replay Session Screen — Regression

```
Hiperstation ---------------- Update Replay Session ---------- Row 1 to 1 of 1
Command ===>                                                  Scroll ===> PAGE

Primary commands: Session settings

Line command: . . (I)nsert 3270 script, (M)ove (A,B),
                  (R)emove 3270 script from replay session

Replay TPF A01TSO

S Script   Function Description
- -------- -------- ----------------------------------------------------------
_ DOCTEST  COMMON
****************************** Bottom of data ********************************
```

Figure 7-12. Update Replay Session Screen — Performance

```
Hiperstation ---------------- Update Replay Session ---------- Row 1 to 1 of 1
Command ===>                                                  Scroll ===> PAGE

Primary commands: Session settings

Line command: . . (I)nsert 3270 script, (M)ove (A,B),
                  (R)emove 3270 script from replay session

Replay TPF

S Script   Repeat Function Description
- -------- ------ -------- ------------------------------------------------------
_ NEW3     1      COMMON
****************************** Bottom of data ********************************
```

Note: The "Update Replay Session Screen" is slightly different for performance testing. There is an additional column where you can specify the number of times to repeat the replay.

On this screen, you can insert or remove a script from a replay session, or move it to another position in the list of scripts. You can also update the replay session settings.

2. Issue the appropriate line command:

   – Type **I** next to a script to insert a script defined to this ATV in this replay session after the selected script.

   – Type **R** remove the selected script from this replay session.

   – Rearrange the order of the scripts to be replayed. Type **M** (Move) on the object you want to move. Type **A** (After) or **B** (Before) on the line you want the object moved before or after. Press Enter. The list will be rearranged. Move is only valid if there are multiple scripts in this replay session.

You can also access the "Session Replay Settings Screen" (Figure 7-9 on page 7-7) for regression testing or "Add Session Replay Screen" (Figure 7-10 on page 7-8) for performance testing by typing **S** on the command line.

3. Enter **END** to return to the "Test Case Screen".

Delete an Asset or Replay Object

On the "Test Case Screen" (Figure 7-5 on page 7-3 or Figure 7-6 on page 7-4), type **D** (delete) beside the object you want to remove. The object is deleted from the list of objects, and there is no confirmation screen.

Move an Asset or Replay Object

Test case steps will be run in the order shown on the "Test Case Screen" (Figure 7-13). Use the Move line command to rearrange the order of the objects in your Test Case. The line command is **M**, **A** represents after, and **B** represents before. For example, in Figure 7-13, the Replay will be moved after the last Asset.

Figure 7-13. Test Case Move Screen

```
Hiperstation --------------------- Test Case ----------------- Row 1 to 4 of 4
Command ===>                                                  Scroll ===> PAGE

Primary commands: Run, RESults, Approve, Hold, REMediate, Notepad

Line commands:    (I)nsert asset, (R)insert replay, (U)pdate
                  (D)elete, (M)ove (A,B), (P)ass/fail condition

Test Case   NEWTST1     Test Case Status Incomplete
Description HLM's first test case

S Object   Type/TPF P/F? Asset name or Replay 3270 script list
- -------- -------- ---- ------------------------------------------------------
  Asset    Userid   None CW40    :USER242
m Replay   H01AC054 None SCR00000
  Asset    Dataset  None VP.ATV.ATVTEST3.COMMON.ATV
a Asset    JCL      None VP.ATV.ATVTEST3.JCL(JOBGENR)
****************************** Bottom of data ********************************
```

1. Type **M** (Move) on the object you want to move.
2. Type **A** (After) or **B** (Before) on the line you want the object moved before or after.
3. Press Enter. The list will be rearranged.

Update a Region Asset for a Performance ATV

1. When you use the Update line command for a region asset on the "Test Case Screen" (Figure 7-5 on page 7-3), the "Strobe Session Settings Screen" appears (Figure 7-14).

Figure 7-14. Strobe Session Settings Screen

```
HIPERSTATION  -------------- Strobe Session Settings----------------------------
Command ===>                                                  Scroll ===> PAGE

 Region:  A06TSO

 Halt Test Execution if this
 Region is not started by the ATV. . . . . . . . N  (Y)es or (N)o

 Issue a Strobe Measurement for this Region. . . >  (Y)es or (N)o

 Create an iStrobe Report for this Region. . . . N  (Y)es or (N)o

 CICS Transaction Information, Detail Transaction (TRAN or TR*):
  =>      =>      =>      =>

 Continue Collecting Data if the Target Sample Size is reached, but
 the Performance Test is still executing. . . Y     (Y)es or (N)o
```

The Region field is prefilled from previous screens and cannot be changed.

2. Specify whether to halt test execution if this region is not started by the ATV. Enter **Y** (yes) or **N** (no). Specifying **Y** will cause test case execution to halt if the CICS region is not started by the ATV. The default is **N** — execution will continue.
3. Specify whether to issue a Strobe measurement for this region. Enter **Y** or **N**. This will determine whether a Strobe measurement is executed for the CICS region. The default is **Y** — a measurement will be executed.
4. Specify whether to create an iStrobe report for this region. Enter **Y** or **N**. The default is **N** — an iStrobe report will not be created.
5. Specify whether to measure CICS Transaction Information and Detail Transactions. Enter the Strobe transaction ID — masking is allowed. These fields allow you to identify specific CICS transactions to measure with Strobe, if the Strobe Measurement was requested. The default is not to measure any CICS transactions.
6. Specify whether to continue collecting data if the target sample size is reached, but the performance test is still executing. Enter **Y** or **N**. The default is **Y** which is equivalent to setting NOLIMIT on the LIMIT-NOLIMIT operand.

Set Test Case Pass/Fail Conditions

Note: The “Test Case Pass/Fail Condition Screen” is only available for regression vehicles, not performance testing, which is based on timing.

1. On the Test Case screen, type **P** next to the object you want to set. The “Test Case Pass/Fail Condition Screen” appears (Figure 7-15).

Figure 7-15. Test Case Pass/Fail Condition Screen

```
Hiperstation  ---------- Test Case Pass/Fail Condition -----------------------
Command ===> ____________________________________________________________

 Specify condition checking on test case:
  Name . . . .  TCASE1

 Test case step:
  Replay to TPF A01TS0
  Script list   TEST

 Indicate status to set upon execution of this test case step:
  1 1.None Always Pass this test case step
    2.Fail Indicate test case has failed if return code is within range
    3.Pass Indicate test case step has passed if return code is within range

 Specify return code range:
  Minimum return code ___0
  Maximum return code __99

 Press ENTER to continue. Use END to return to Test Case screen.
```

Note: The Test case step fields, which are prefilled based on the test case object selected, are different depending on the type of object selected, and you cannot set a pass/fail condition for a Userid Asset type.

2. You can select from three choices for pass/fail status:
   - **1. None:** Always pass this test case step.
   - **2. Fail:** Test case has failed if the return code is within the range you specify.
   - **3. Pass:** Test case step has passed if the return code is within the range you specify.
3. Set your minimum and maximum return code range.
4. Press Enter to continue. You will return to the "Test Case Screen" and the pass/fail condition you set will appear in the **P/F?** column.

Issuing Primary Commands

Run a Test Case

1. On the "Test Case Screen", type **R** (Run) on the command line and press Enter. The "Run Test Case Screen" appears (Figure 7-16).

Figure 7-16. Run Test Case Screen

```
HIPERSTATION -------------------- Run Test Case -------------------------------
Command ===>

 ATV Name. . .  . . . . . HLMTST01
 Application Being Tested Hiperstation

Test case to run:
 Test case name TEST05
 Test case description TCPPLAY TCMS TEST CASE CN31E51-R02

Run completion notification:
 Email address ____________________________________________________

 _ Suppress email distribution of failure notice.(Enter "/")

 Press ENTER to run this test case, use END to cancel.
```

2. The test case name and description fields are prefilled with the information from the selected test case and cannot be changed.
3. Enter an e-mail address to receive a notice when this test case run has completed.
4. Enter a slash (/) in the **Suppress email distribution of failure notice** field to disable automatic distribution of test case failure notices.
5. Press Enter to confirm your request and run this test case, or use **END** to cancel the run and return to the "Test Case Screen".

   If you press Enter, you return to the "Test Case Screen" and a message appears stating that the job was submitted.

View Test Case Results

From this screen you can view your test case results, view a history for this test case, see expanded information about the last test case run, assign a status, see a reason for test case failure, and designate a specific test case as a baseline against which you will compare other test case results.

1. On the "Test Case Screen", type **RES** (Results) on the command line and press Enter. The "Test Case Run Results Screen" appears (Figure 7-17).

Figure 7-17. Test Case Run Results Screen

```
Hiperstation -------------- Test Case Run Results ------------ Row 1 to 3 of 3
Command ===>                                                  Scroll ===> PAGE

Primary commands: Assign status, History, Run details

Line commands:. . (V)iew, (P)romote to Baseline

Test Case TEST05   Test Case Status Incomplete
Last Run Date 04/11/10   Time 13:31:55  Result PASS
Failure Reason

S Data Type     Dataset name
- ------------  -------------------------------------------
  Baseline      VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.LOG.B
  Asset-Output  VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.PRT
  Baseline      VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.PRT.B
****************************** Bottom of data ********************************
```

Note: The result datasets you see on your screen will differ depending on the type of vehicle you ran — regression or performance. Also, individual test case run requests will run the test case regardless of its current status.

2. Select what you want to do:
   – Type **A** (assign status) on the command line and press Enter. The "Assign Status Screen" appears (Figure 7-18).

Figure 7-18. Assign Status Screen

```
Hiperstation -------------- Test Case Run Results ------------ Row 1 to 3 of 3
C +-------------------------------------------------+         Scroll ===> PAGE
  | ---------------- Assign Status ---------------- |
P |                                                 |
  |  Select appropriate status:                     |
L |  1 1.Application problem                        |
  |    2.Test case error                            |
T |                                                 |
L |  Press ENTER to set status, use END to cancel.  |
F |                                                 |
  +-------------------------------------------------+
S Data Type     Dataset name
- ------------  -------------------------------------------
  Baseline      VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.LOG.B
  Asset-Output  VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.PRT
  Baseline      VP.ATV.HS780REG.TCPPLAY.C31E51B.OUTPUT.PRT.B
****************************** Bottom of data ********************************
```

When selecting the appropriate status, there are two options from which to choose: **1. Application problem** and **2. Test case error**.

If you select **1**, **Bug** will appear on the Test Case Status field for those screens that contain this field. If you select **2**, **Repair** will appear in this field.

– Type **H** (History) on the command line. The "Run History Screen" appears (Figure 7-19).

Figure 7-19. Run History Screen

```
Hiperstation ------------------- Run History --------------- Row 1 to 11 of 11
Command ===> ____________________________________________________ Scroll ===> PAGE

Line commands:. . (R)un Details

Test Case TST10A   Test Case Status Pass
Description .

S Date     Time     Req Result Reason
- -------- -------- --- ------ ----------------------------------------------
_ 06/11/09 17:10:35  T  Pass
_ 06/11/09 17:02:28  V  Pass
_ 06/11/09 17:01:55  P  Pass
_ 06/11/09 16:57:47  T  Pass
_ 06/11/09 16:56:06  T  Pass
_ 06/11/09 10:39:50  V  Skip   Status = Incomplete
_ 06/11/09 10:08:17  T  Fail   Processing Error
_ 06/10/09 15:39:56  T  Pass
_ 06/10/09 10:15:17  T  Pass
_ 06/10/09 10:15:13  V  Skip   Status = Incomplete
_ 06/10/09 10:15:09  V  Skip   Status = Incomplete
****************************** Bottom of data ********************************
```

This screen displays a list of test run results for the selected test case. The list is limited to approximately the last 180 runs of the test case.

Issue the Run details line command to display expanded information about the selected run of this test case.

The Req field shows whether a vehicle (V), test case (T), or playlist (P) was run.

– Type **R** (Run details) next to the desired run. The "Test Case Run Result Detail Screen" appears (Figure 7-20).

Figure 7-20. Test Case Run Result Detail Screen

```
Hiperstation ----------- Test Case Run Result Detail -------------------------
Command ===>


Test Case Name . TST10A
Test Case Status Pass

Run Details:
 Run Requested. TEST CASE
 Run Requestor. USR2503
 Function . . . COMMON
 Start Date . . 05/11/10  Start Time 17:10:35
 End Date . . . 05/11/10  End   Time 17:10:57
 Prior status . PASS
 Result . . . . PASS
 Failure Reason:


Enter END command to return to the previous panel.
```

The "Test Case Run Result Detail Screen" shows all of the details of this test case run: The name, status, what was run, user who requested the run, the function, start and end dates and times, prior status, result, and if it failed, the reason for failure.

– Type **V** (view) next to the results you want to view. Figure 7-21 is an example of one type of results screen.

Figure 7-21. View Screen

```
 File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
-------------------------------------------------------------------------------
VIEW       VP.ATV.ATVTEST6.PERF1.JCL                    Columns 00001 00072
Command ===>                                              Scroll ===> PAGE
****** ***************************** Top of Data ******************************
==MSG> -Warning- The UNDO command is not available until you change
==MSG>           your edit profile using the command RECOVERY ON.
000001 //XXXXXXX2 JOB ('ACCOUNT',5M-0000),'HIPERSTN',
000002 //       CLASS=Q,MSGCLASS=R,NOTIFY=&SYSUID
000003 //*
000004 //*
000005 //*
000006 //*  HIPERSTATION ATV REPLAY EXECUTION
000007 //*
000008 //REPLAY1  EXEC PGM=EHSBATCH,REGION=0M
000009 //SYSUDUMP DD SYSOUT=*
000010 //STEPLIB  DD DISP=SHR,DSN=VP.TECH.QQF160.SQQFLOAD
000011 //SYSLIB   DD DISP=SHR,DSN=VP.ATV.ATVTEST6.SCRIPTS
000012 //         DD DISP=SHR,DSN=VP.TECH.QQF160.SQQFSCRP
000013 //         DD DISP=SHR,DSN=VP.ATV.ATVTEST6.EXEC
000014 //SYSPRINT DD DISP=OLD,DSN=VP.ATV.ATVTEST6.PERF1.SYSPRINT
000015 //SYSIN    DD  *
000016    PARMS 'USER2312 D22C4EF44EFF'
000017    CONTROL PREFIX(CW40) SUFFIX(4)
```

After reviewing your results, use END to return to the "Test Case Run Results Screen".

– Type **P** (Promote to Baseline) to designate that individual test case result datasets will be used for comparison by other test case datasets, if desired. For example, you might want to set pass/fail conditions for another test case dataset by comparing it against this test case dataset.

Approve Test Case Results

1. On the "Test Case Screen", type **A** (Approve) on the command line and press Enter. The "Approve Test Case Screen" appears (Figure 7-22).

Figure 7-22. Approve Test Case Screen

```
Hiperstation  ---------------- Approve Test Case ------------------------------
Command ===> ____________________________________________________________________

 Test case approval allows a test case to run along with Playlist
 and ATV runs.

Test case to be approved:
 Name. . . . DOCTEST
 Description Test case to use for doc activity

 Press ENTER to approve test case, use END to cancel.
```

2. Press Enter to approve the test case and return to the "Test Case Screen", or use END to return to the "Test Case Screen" without approving the test case.

   Approving a test case changes the Test Case Status to APPROVED. This means that your test case is ready to run.

Put a Test Case on Hold

1. On the "Test Case Screen", type **H** on the command line and press Enter. The "Hold Test Case Screen" appears (Figure 7-23).

Figure 7-23. Hold Test Case Screen

```
Hiperstation  ------------------ Hold Test Case -------------------------------
Command ===> ____________________________________________________________________

 Holding a test case will stop it from running with Playlist
 and ATV runs.

Test case to be held:
 Name. . . . DOCTEST
 Description Test case to use for doc activity

 Press ENTER to hold test case, use END to cancel.
```

   Your test case status changes to **HOLD**. You might want to put a test case on hold if the application has changed and the test case requires updates.

2. To change a test case status after you have put it on hold, return to the "Test Case Screen" and type **A** (Approve) on the command line. Status will change to APPROVED and the test case can be used.

Remediate Scripts

Remediation allows you to specify the action to take to remove any unwanted mismatches from the Hiperstation scripts that comprise the selected ATV test case. When executed, the base test case scripts are updated to include the specified remediation. Remediation actions can be specified globally, for each mismatch individually, or for each combined mismatch. Remediation is valid only for regression testing, not performance testing.

Note: Remediation is only available for regression vehicles. See the online help for a description of all of the fields and commands available on the remediation screens.

1. On the "Test Case Screen", type **REM** (Remediate) on the command line and press Enter. The "Remediation Member List Screen" appears (Figure 7-24).

Figure 7-24. Remediation Member List Screen

```
Hiperstation ---------- Remediation Member List ----------- Row 00001 of 00001
Command ===>                                                 Scroll ===> PAGE

Select replay result member for script remediation,
then press ENTER or END to return.

Line Command: (S)elect

   Name     Prompt          Size    Created           Changed            ID
  REPLAY1
  **End**
```

On this screen you can select a replay result member for script remediation.

2. Type **S** (Select) next to the desired member and press Enter. The "ATV - Hiperstation Remediation Screen" appears (Figure 7-25).

Figure 7-25. ATV - Hiperstation Remediation Screen

```
Hiperstation --------- ATV - Hiperstation Remediation ------- Row 1 to 9 of 41
Command ===>                                                 Scroll ===> PAGE

Enter the GO command to execute the remediation instructions for the mismatches
listed. For test case outputs enter either BROwse to see the comparison log
the Base line command to view the original Hiperstation script, or the New line
command to see the new or dubbed Hiperstation script. The Toggle command
switches between showing the full mismatch set and a list of unique mismatches.

 Script . . . . : REPLAY1      Default Remediation Action : A  (Asis/Dub/Mask)

Line commands are: (A)sis,(B)ase,(C)log,(D)ub,(M)ask,(N)ew or (V)iew.

S C   Base    Dub/New  Screen  Row Col Len      Actual          Expected
* * ******** ******** ******** *** *** *** ***************** *****************
    DOCTEST  DOCTEST  0000001  7   70  9   16:58             09:44
    DOCTEST  DOCTEST  0000005  3   1   79  DSLIST - Data Se DSLIST - Data Se
    DOCTEST  DOCTEST  0000006  3   1   79  DSLIST - Data Se DSLIST - Data Se
    DOCTEST  DOCTEST  0000006  13  55  26      75    5   1      75    0   1
    DOCTEST  DOCTEST  0000006  14  1   54           USER2312         USER2312
    DOCTEST  DOCTEST  0000006  14  55  26      75    0   1      30    ?   1
    DOCTEST  DOCTEST  0000006  15  1   54           USER2312         USER2312
    DOCTEST  DOCTEST  0000006  15  55  26      30    ?   1       1    ?   1
    DOCTEST  DOCTEST  0000006  16  1   54           USER2312         USER2312
```

Figure 7-25 shows a list of the mismatches recorded in the comparison log for the selected execution of the ATV test case. Each mismatching field is listed either separately for each occurrence or combined into one entry. You can use the **Toggle** command to switch between the display modes.

In the Full Mismatch List, mismatching fields on any Hiperstation test case script's <OUTPUT> screens are listed individually for each occurrence. In the Combined/Unique Mismatch List, if a screen appears multiple times, they are consolidated into a single mismatch entry. In this way, a single remediation action can cover all mismatches for that field.

The Actual and Expected field content shown for combined mismatches are taken from the first mismatch found for this field.

Note: Mismatches are listed only if the Actual and Expected comparison log screen pairs record the same screen (for example, output fields have the same start position and are of the same length, and the two screens either have the same number of output fields or all of the output fields on one of the screens are contained within the other screen.

3. Select the desired remediation action line command.

- The default action is (**A)sis**, which will not modify the base/expected scripts.
- **(D)ub** copies the content of mismatching fields in the new/actual scripts into the corresponding base/expected script fields and overlaying the previous field content.
- **(M)ask** applies Hiperstation ignore column masking to mismatching fields in the base/expected scripts. Ignore masking lines are inserted into the script immediately under the <OUTPUT> screen line containing the mismatching fields.

Note: The **Default Remediation Action** field shows the global or default remediation action for mismatching fields where no remediation was specified. Entering a remediation action in the **S** column specifies the remediation action for a specific mismatch.

4. Other line commands allow you to indicate your remediation action or view the mismatch and associated scripts and comparison log. Type the desired line command and press **Enter**, **END**, or **CANCEL**. You can use different line commands on different lines.
   - **(B)ase** views the original script named in this mismatch entry, using the ISPF View command, starting at the beginning of the script.
   - **(C)log** views the comparison log, positioned at the Actual screen from which this mismatch was extracted.
   - **(N)ew** views the new or dubbed script named in this mismatch entry, via the ISPF View command, starting at the beginning of the script.
   - **(V)iew** views the mismatch detail in a pop-up window. This window provides more space to show the mismatching contents of the actual and expected fields.
5. Enter **GO** on the command line to execute the remediation base/expected script using the combination of the individual and combined/global remediation actions specified.

   You can also use **BROwse** to view the comparison log (Figure 7-26). This is just an example of a comparison log. Your log will be different.

Figure 7-26. Remediation Comparison Log

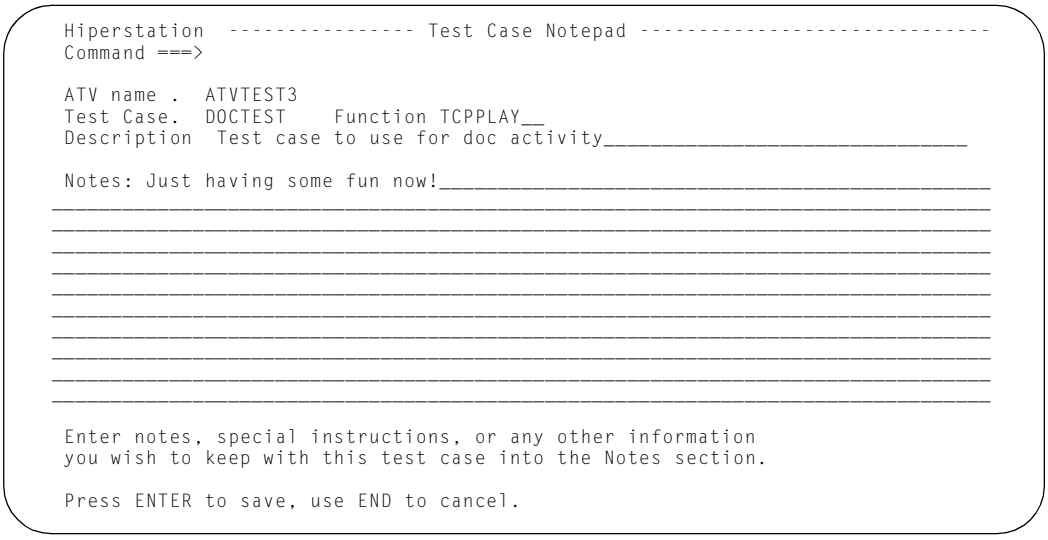
```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
sssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
VIEW       VP.ATV.ATVTEST3.DOCTEST.OUTPUT(LOG1) - 01.00    Columns 00001 00072
Command ===>                                                 Scroll ===> PAGE
****** ***************************** Top of Data ******************************
==MSG> -Warning- The UNDO command is not available until you change
==MSG>           your edit profile using the command RECOVERY ON.
000001 1                                                          COMPUWARE COR
000002 OTRANSACTION COMPARISON LOG                    TERMINAL ID: CW400001 TPF
000003 OACTUAL RECEIVED SCREEN #:          SCRIPT: LOGNTSO    DATASET: VP.ATV.A
000004    ----+----1----+----2----+----3----+----4----+----5----+----6----+----
000005  |  IKJ56700A ENTER USERID -
000006 +  *IKJ56700A ENTER USERID -*
000007  |
000008  |
000009  |
000010  |
000011  |
000012  |
000013  |
000014  |
000015  |
000016  |
000017  |
```

6. After you finish reviewing your log, use **END** until you return to the “Test Case Screen”.

Updating the Test Case Notepad

1. Type **N** (Notepad) on the "Test Case Screen". The "Test Case Notepad Screen" appears (Figure 7-27).

Figure 7-27. Test Case Notepad Screen



2. Type a **Description** (optional).
3. Type the **Function** this test case applies to.
4. Type the desired **Notes**, instructions, or any other information you want to keep with this test case.
5. Press Enter to save your notes and return to the "Test Case Screen".

Strobe and iStrobe Performance Vehicle Notes

If you have Strobe and/or iStrobe installed, you can perform performance tests and get reports on those products. If Strobe and/or iStrobe is not installed at your site, the following note is not relevant.

Note: The Performance Vehicle will automatically attempt to execute a Strobe measurement session and paper Profile Report for each Domain Asset listed in the Test Case. For the execution to succeed, the Strobe module STRBCSR, the session requestor program, needs to be located in a linklist concatenation. See the *Strobe MVS Installation and Customization Guide* for additional information.

The iStrobe report generated will follow the naming conventions used by Strobe. The generated iStrobe report dataset name will appear in the "Test Case Run Results Screen" (Figure 11-7 on page 11-5). To view the Report, it must be downloaded and imported into iStrobe. For details on this procedure, see the *iStrobe Getting Started Guide*.

Chapter 8.
Build, Execute, and Delete Playlists

To build a playlist, you first need to create it using the Create command. At this point you are only creating an empty playlist. After it is created, you need to open it so you can add test cases to it. After you have added your test cases, you can run it.

Creating Playlists

1. From the "Hiperstation - Product Menu", select **4 Hiperstation ATV Manager**. The "Automated Testing Vehicle List Screen" appears.
2. Open an ATV by typing an **O** on the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select option **4 Playlists**. The "Automated Testing Vehicle Playlists Screen" appears (Figure 8-1).

Figure 8-1. Automated Testing Vehicle Playlists Screen

```
Hiperstation ------- Automated Testing Vehicle Playlists ------- Row 1 from 20
Command ===>                                                  Scroll ===> PAGE

Primary commands: Create

Line commands:. . (O)pen, (C)opy, (R)un, (D)elete

ATV Name. . HLMTST01        Application Being Tested Hiperstation
Description Hiperstation Regression Vehicle

S List Name Description
- ********  ********************************************************************
_ ATVTESTS  ALL ATV TEST CASES
_ BUILD7    ALL INCOMPLETE TEST CASES NEEDING APPROVAL FOR BUILD 7
_ BUILD8    ALL INCOMPLETE TEST CASES NEEDING APPROVAL FOR BUILD 8
_ CHRIS1    TESTING E-MAIL DELIVERY
_ DOMTRAV   TEST CASES FOR DOMAIN TRAVELER
```

From this screen you can create a new playlist, and open, copy, run, or delete an existing playlist.

4. On the "Automated Testing Vehicle Playlists Screen", type **C** (create) on the command line. The "Create Playlist Screen" appears (Figure 8-2).

Figure 8-2. Create Playlist Screen

```
Hiperstation  ----------------- Create Playlist -------------------------------
Command ===> ____________________________________________________________________

 ATV Name . . . . . . . . ATVTEST3
 Application Being Tested Hiperstation

 ATV Description Hiperstation atv test

Identify new Playlist:
 Playlist name ________
 Description. . ____________________________________________________________

 Press ENTER to create new playlists, use CANCEL to terminate.
```

5. Type a **Playlist name** and optional **Description** for the new playlist.
6. Press Enter to create the new playlist or use CANCEL to return to the "Automated Testing Vehicle Playlists Screen" without creating the new playlist.

   If you press Enter, you will return to the "Automated Testing Vehicle Playlists Screen" and the new playlist will appear in the list.

   Note: At this point, you have created a play list, but it does not contain any test cases to play. Continue with the next section, "Opening an Existing Playlist" to add test cases to your play list.

Opening an Existing Playlist

1. On the "Automated Testing Vehicle Playlists Screen", type **O** (open) next to the playlist you want to review or to which you want to add test cases. The "Playlist Screen" appears (Figure 8-3).

Figure 8-3. Playlist Screen

```
Hiperstation --------------------- Playlist ------------------ Row 1 to 1 of 1
Command ===>                                                  Scroll ===> PAGE

Primary commands: Add, Email list, Run

Line command: . . (D)elete from playlist

Playlist. . HLMPLAY2
Description SECOND PLAY LIST

S TestCase Function Status     Description
- -------- -------- ---------- -------------------------------------------------
_ DOCTEST  TSOSAMPL APPROVED   Test case to use for doc activity
****************************** Bottom of data ********************************
```

   Note: The first time you access the "Playlist Screen", it will be blank.

2. To add a test case to your playlist, type **A** (add) on the command line. The "Select Test Case Screen" appears (Figure 8-4).

Figure 8-4. Select Test Case Screen

```
Hiperstation ----------------- Select Test Case ----------------- Row 1 from 2
Command ===>                                                    Scroll ===> PAGE

Playlist. . HLMPLAY2
Description SECOND PLAY LIST

Use line command S to add a test case to this playlist.
Use END to return to the Automated Testing Vehicle Playlist screen.

S TestCase Function Status     Description
- *******  ******** ********   ***********************************************
_ DOCTEST  TSOSAMPL APPROVED   Test case to use for doc activity
_ NEWTST1  COMMON   Repair     HLM's first test case
****************************** Bottom of data ********************************
```

3. Type **S** next to the test case to be added to the playlist and press Enter. You will return to the "Playlist Screen" where your test case is now in the list of test cases that will be run when you execute your playlist.

   Note: You can add only one test case at a time. To add multiple test cases, repeat step 3 until all of the desired test cases have been added to the playlist.

Copying an Existing Playlist

1. On the "Automated Testing Vehicle Playlists Screen", type **C** (copy) next to the playlist you want to copy. The "Copy Playlist Screen" appears (Figure 8-5).

Figure 8-5. Copy Playlist Screen

```
------------------------------- Copy Playlist --------------------------------
Command ===> ____________________________________________________________________

 Identify new playlist:
  Source Playlist HLMPLAY_
  New Playlist. . ________

  Description HLM'S PLAYLIST_____________________________________________

 Specify new playlist name and description.
 Press ENTER to create new playlist, use END to cancel.
```

2. Enter a name and optional description for the new playlist.
3. Press Enter to create the new playlist or use END to cancel and return to the "Automated Testing Vehicle Playlists Screen" without creating a new playlist.

   If you press Enter, you will return to the "Automated Testing Vehicle Playlists Screen" and the new playlist will appear in the list.

Creating a Playlist E-Mail Contact List

1. On the "Playlist Screen", type **E** (Email list) on the Command line. The "Email Contact List for Playlist Screen" appears (Figure 8-6).

Figure 8-6. Email Contact List for Playlist Screen

```
Hiperstation ---------- Email Contact List for Playlist ------ Row 1 to 2 of 2
Command ===>                                                  Scroll ===> PAGE

Primary commands: Add

Line commands:. . (U)pdate, (R)emove

Playlist name PLY0610A        Application being tested HIPERSTATION
Description .

S Contact Name                                          Report    Send Trigger
- ------------------------------------------------  --------  ------------
_ Usr10 - Detail                                     Detail    Always
_ USR15 - Summary                                    Summary   Always
****************************** Bottom of data ********************************
```

Note: The first time you access this screen, there will be no e-mail contacts in the list.

2. Type **A** (Add) on the command line. The "Select Contact Screen" appears (Figure 8-7).

Note: The Update command allows you to change the type of report to send and when to send it to the contact. Remove will remove an e-mail contact from the list, but it will not delete the e-mail contact from use elsewhere in the ATV.

Figure 8-7. Select Contact Screen

```
Hiperstation ------------------ Select Contact ------------- Row 1 to 15 of 22
Command ===>                                                  Scroll ===> CSR

Primary commands: New contact

Line commands:. . (S)elect contact

S Contact Name                  Email Address
- ----------------------------- ----------------------------------------------
_ jack                          jack.peterson@Compuware.Com
_ jesse franklin                jesse.franklin@compuware.com
_ nick johnson                  nick.johnson@compuware.com
_ peter williams                peter.williams@compuware.com
_ nancy wilson                  nancy.wilson@compuware.com
```

3. Type **S** next to the e-mail contacts you want to appear on the "Email Contact List for Playlist Screen" and press Enter. The "Set Report Delivery Options Screen" appears.

Figure 8-8. Set Report Delivery Options Screen

```
Hiperstation  ----------- Set Report Delivery Options -------------------------
Command ===> ____________________________________________________________________


 Specify contact information:
  Contact Name:  Jack
  Run report delivery options for Vehicle PLAYLST1

 Specify when to notify this contact:  2 1. Always
                                         2. Failure

 Select type of report to send:  1 1. Summary
                                   2. Detail


 Press ENTER to update contact information. Use END to cancel.
```

4. Specify when to notify this contact. The choices are **1** Always or **2** Failure. The default is 1.
5. Select the type of report to send. The choices are **1** Summary or **2** Detail. The default is 1.
6. Press Enter to update your contact information and return to the "Email Contact List for Playlist Screen".
7. After your updates are complete, press END to return to the "Playlist Screen".

Running a Playlist

1. On the "Playlist Screen", type **R** (run) on the Command line. The "Run Playlist Screen" appears (Figure 8-9).

Figure 8-9. Run Playlist Screen

```
Hiperstation  -------------------- Run Playlist --------------------------------
Command ===> ____________________________________________________________________

 ATV Name. . .  . . . . . HLM0608A
 Application Being Tested HIPERSTATION

Playlist to run:
 Playlist Name PLY0610A
 Playlist Description HLM PLAYLIST

 _ Suppress email distribution of run report (Enter "/")

 _ Run all test cases regardless of status (Enter "/")

 Press ENTER to run this playlist, use END to cancel.
```

2. If you do not want an e-mail notification to be sent, enter a slash (/) in the Suppress email distribution of run report field.
3. All test cases referenced by this Playlist will be run with the exception of any with a status of HOLD or Incomplete. If you want to override this behavior and run all test cases regardless of their status, enter a slash (/) in the Run all test cases regardless of status field.
4. Press Enter to run the playlist or use END to cancel and return to the "Playlist Screen".

   If you press Enter, you will receive a job submitted message and return to the "Playlist Screen".

   When the Playlist has finished running, and if you set an e-mail notification, you will receive the notification you requested.

Deleting a Playlist from the ATV

1. On the "Automated Testing Vehicle Playlists Screen" (Figure 8-1 on page 8-1), type **D** (Delete) next to the playlist you want to delete from the ATV. A "Confirm Playlist Delete Screen" will appear (Figure 8-10).

Figure 8-10. Confirm Playlist Delete Screen

```
Hiperstation  ------------- Confirm Playlist Delete ----------------------------
Command ===>

 Playlist to be deleted:
  Name. . . . HLMPLAY2
  Description

 Press ENTER to confirm delete request.

 Press END to cancel delete request.
```

2. Press Enter to confirm the delete request and return to the “Automated Testing Vehicle Playlists Screen”, or use END to cancel the delete request and keep the playlist in the ATV.

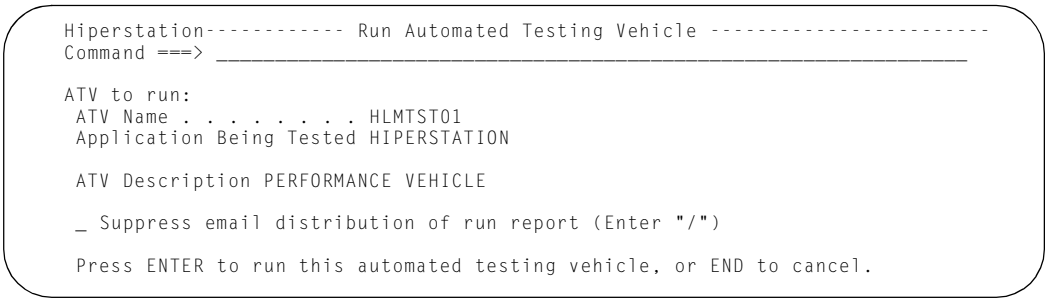
Chapter 9.
Execute All Test Cases within this ATV

Running an ATV

Run Vehicle will run all of the test cases within the ATV. Test cases that have a status of Incomplete or Hold will be skipped during the run.

1. From the "Hiperstation - Product Menu", select **4 Hiperstation ATV Manager**. The "Automated Testing Vehicle List Screen" appears.
2. Open an ATV by typing an **O** on the desired ATV. The "Automated Testing Vehicle Screen" appears.
3. Select option **5 Run Vehicle**. The "Run Automated Testing Vehicle Screen" appears (Figure 9-1).

Figure 9-1. Run Automated Testing Vehicle Screen



4. To suppress receiving an e-mail notification for this ATV, enter a slash (/) in the suppress email distribution of run report field.
5. Press Enter to run the ATV. You will return to the "Automated Testing Vehicle Screen" and a message will appear stating that the job was submitted.
6. To view the results of your ATV run, see Chapter 11, "Test Execution Reports" or to see how to send an e-mail notification of the test results, see Chapter 10, "Notify Users of ATV Test Results".

Chapter 10.
Notify Users of ATV Test Results

You can notify users of ATV test results by setting up e-mail contact lists. You can set up e-mail contacts in the following ways:

- E-mail contact list for Automated Testing Vehicle — see “Working with E-mail Contacts” on page 10-1
- E-mail contact list for Playlists — see “Creating a Playlist E-Mail Contact List” on page 8-3

Note: The e-mail list associated with the vehicle or playlist you request to run will be used to send the run report.

Working with E-mail Contacts

1. From the “Hiperstation - Product Menu”, select **4 Hiperstation ATV Manager**. The “Automated Testing Vehicle List Screen” appears.
2. Open an ATV by typing an **O** on the desired ATV. The “Automated Testing Vehicle Screen” appears.
3. Select option **6 Email Contacts**. The “Email Contacts Screen” appears (Figure 10-1).

Figure 10-1. Email Contacts Screen

```
Hiperstation ------------------ Email Contacts --------------- Row 1 to 3 of 3
Command ===>                                                   Scroll ===> PAGE

Primary commands: New contact, Vehicle email list

Line commands:. . (E)mail lists, (F)unctions, (U)pdate, (T)ransfer, (D)elete

ATV name. . HS780REG     Application being tested Hiperstation
Description Hiperstation Regression Vehicle

S Contact Name                   Email Address
- ------------------------------ ---------------------------------------------
  chris                          christopher.mcmillan@compuware.com
  nick                           nick.johnson@compuware.com
  john                           john.jackson@compuware.com
```

From this screen, you can navigate to additional screens allowing you to add, update, or delete an e-mail contact, create an e-mail contact list for the current vehicle, add users to e-mail lists, assign or remove users to functions to which test cases failure notices can be sent, and copy the assignments defined to one e-mail contact to another e-mail contact.

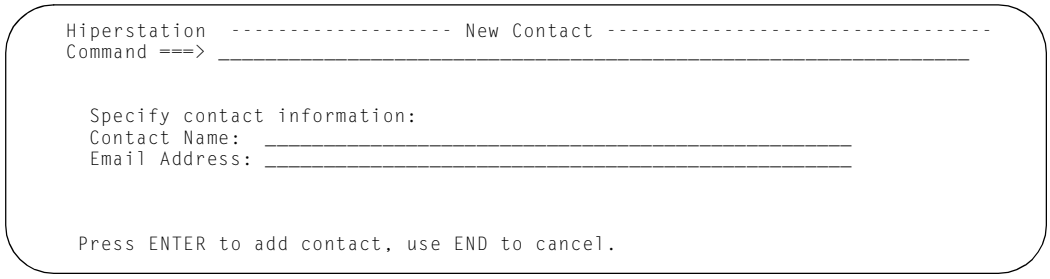
See the following sections for information on how to use e-mail contacts and e-mail contact lists.

Create a New E-mail Contact

The “New Contact Screen” allows you to add an e-mail contact to the vehicle database. It associates an e-mail address to the contact to be used for report distribution.

1. From the "Email Contacts Screen" (Figure 10-1), type **N** (New) on the command line. The "New Contact Screen" appears (Figure 10-2).

Figure 10-2. New Contact Screen

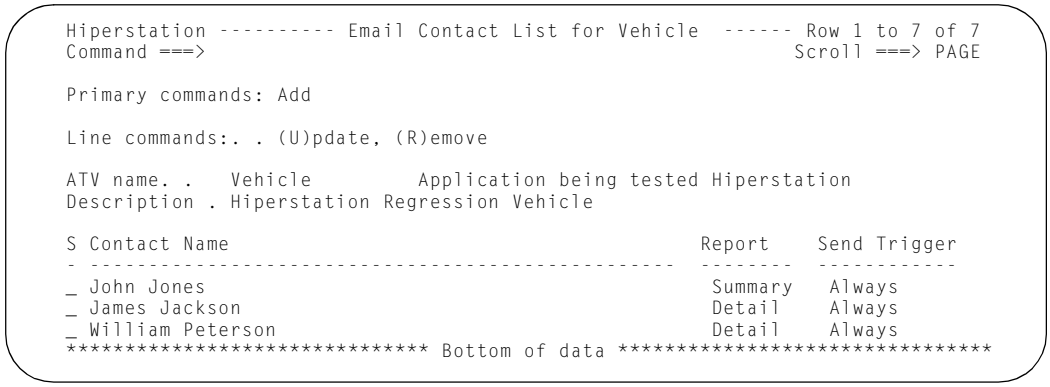


2. Enter a unique identifier for this e-mail contact. You can use a title for an area of responsibility rather than an individual's name, if desired, so report distribution an easily be redirected as areas of responsibility change.
3. Enter an e-mail address to use when a report or notice is sent to the associated contact.
4. Press Enter to add the contact or use END to cancel without saving your new contact.

E-mail Contact List for Vehicle

1. From the "Email Contacts Screen" (Figure 10-1), type **V** (vehicle e-mail list) on the command line. The "Email Contact List for Vehicle Screen" appears (Figure 10-3).

Figure 10-3. Email Contact List for Vehicle Screen



This screen lists all the contacts assigned to receive run reports via e-mail for the current vehicle. You can add, update, or remove e-mail contacts from this list. The ATV name, application, and description are prefilled from information on the previous screen.

2. Update your contact list:
   - To add a new e-mail contact, type **A** on the command line. The "Select Contact Screen" appears (Figure 10-4).

Figure 10-4. Select Contact Screen

```
Hiperstation ------------------ Select Contact ------------- Row 1 to 15 of 21
Command ===>                                                  Scroll ===> CSR

Primary commands: New contact

Line commands:. . (S)elect contact

S Contact Name                  Email Address
- ------------------------------ ---------------------------------------------
_ jack                          jack.peterson@Compuware.Com
_ jesse franklin                jesse.franklin@compuware.com
_ nick johnson                  nick.johnson@compuware.com
_ peter williams                peter.williams@compuware.com
_ nancy wilson                  nancy.wilson@compuware.com
_ richard daniels               richard.daniels@Compuware.Com
```

1. Fill in the name and e-mail address for the contact.
2. Specify whether to notify this contact always or only when there is a failure.
3. Select the type or report to send (Summary or Detail).
4. Press Enter to add the contact to the contact list and return to the "Email Contacts Screen", or use **END** to cancel.

– To update an existing contact on the list, type **U** next to the contact you want to modify. The "Set Report Delivery Options Screen" appears (Figure 10-4).

Figure 10-5. Set Report Delivery Options Screen

```
Hiperstation  ----------- Set Report Delivery Options -------------------------
Command ===> ____________________________________________________________


 Specify contact information:
  Contact Name:  Jack
  Run report delivery options for Vehicle PLAYLST1

 Specify when to notify this contact:  2 1. Always
                                         2. Failure

 Select type of report to send:  1 1. Summary
                                   2. Detail


 Press ENTER to update contact information. Use END to cancel.
```

1. Specify when to notify this contact. The choices are **1** Always or **2** Failure. The default is 1.
2. Select the type of report to send. The choices are **1** Summary or **2** Detail. The default is 1.
3. Press Enter to update your contact information and return to the Email Contact List for Vehicle.

– To remove an e-mail contact from the contact list, type R next to the desired contact. The contact is removed immediately from this list, without a delete confirmation screen. The contact is not deleted, however, it will still remain in the Email Contacts list.

3. After your updates are complete, press END to return to the "Email Contacts Screen".

E-Mail Distribution Lists

1. From the "Email Contacts Screen" (Figure 10-1 on page 10-1), type **E** for one of the contacts. The "Email Distribution Lists Screen" appears (Figure 10-6).

Figure 10-6. Email Distribution Lists Screen

```
Hiperstation ------------- Email Distribution lists ---------- Row 1 to 6 of 6
Command ===>                                                  Scroll ===> PAGE

Contact name:  Helen

Line commands: (A)dd to list, (R)emove from list, (U)pdate options

ATV Name. . HS780REG        Application Being Tested Hiperstation 8.0.0

S Sel List Name  Description
- --- ---------  ------------------------------------------------------------
_  *  VEHICLE   Email list for full vehicle run requests
_     ATVTESTS  ALL ATV TEST CASES
_     BUILD7    ALL INCOMPLETE TEST CASES NEEDING APPROVAL FOR BUILD 7
_     BUILD8    ALL INCOMPLETE TEST CASES NEEDING APPROVAL FOR BUILD 8
_     CHRIS1    TESTING E-MAIL DELIVERY
_     DOMTRAV   TEST CASES FOR DOMAIN TRAVELER
```

You can select the distribution lists that you want the contact you selected on the previous screen to belong to. An asterisk (*****) appears in the **Sel** field when this contact has been added to a distribution list. If the Sel field is blank, this contact has not been added to this distribution list.

2. Add or remove this contact to or from a distribution list:
   - Type **A** next to the e-mail distribution list you want to add this contact to.
   - Type **R** next to the e-mail distribution list you want to remove this contact from.
   - Type **U** to specify when to notify this contact and the type of report to send. The "Set Report Delivery Options Screen" appears. See "Function Notification Assignments" on page 10-4 for details.
3. After this contact has been added to all of the necessary e-mail distribution lists, press END to return to the "Email Contacts Screen".

Function Notification Assignments

The "Function Notification Assignments Screen" lists all functions to which test case failure notices can be sent, and it specifies which functions the selected contact is assigned to.

1. From the "Email Contacts Screen" (Figure 10-1 on page 10-1), type **F** for one of the contacts. The "Function Notification Assignments Screen" appears (Figure 10-7).

Figure 10-7. Function Notification Assignments Screen

```
Hiperstation -------- Function Notification Assignments ---- Row 1 to 12 of 12
Command ===>                                                  Scroll ===> PAGE

Contact name:  Helen

Line commands: (A)ssign function, (R)emove assignment

ATV Name. . HLMTST01        Application Being Tested Hiperstation

S Sel Function Description
- --- -------- ----------------------------------------------
_     ARCHMQ    Archive (Audit) MQ
_     ARCHTCP   Archive (Audit) TCP
_     ARCH3270  Archive (Audit) 3270
_     ATTOOLS   Hiperstation Attools load
_     ATV       Hiperstation automated testing vehicles
_     A4GTSO    Add TCP GR REQ-SPACE IN CLT/SRv-fill w '*'
_     COMMON    Assets common to the entire vehicle
_     COMMON0   Assets common to the entire vehicle
_     CPYJOBLG  copies JEs job log to flat file
_     CURRENCY  Currency testing
_     DCI       The batch interface to Global Record
_     DOMTRAV   Domain Traveler
```

On this screen, you can assign a function or remove a function assignment. An asterisk (*****) in the Sel column specifies whether this function is assigned to this contact. If the Sel field is blank, the function has not been assigned to this contact.

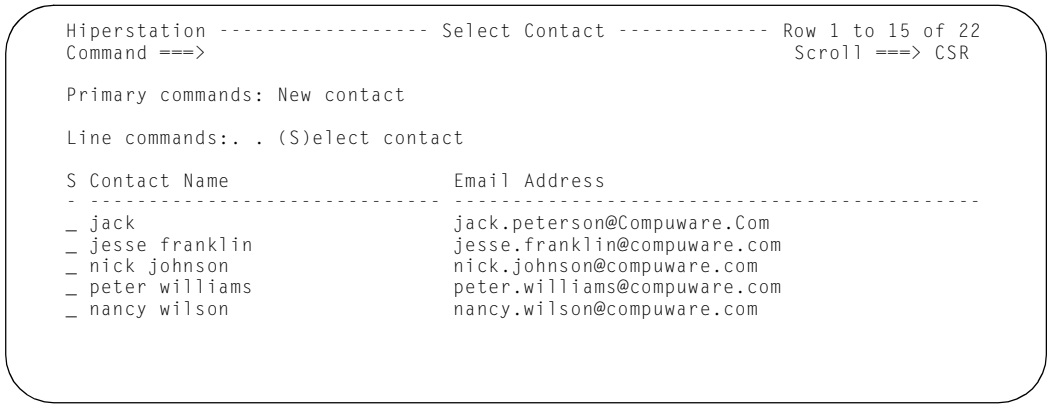
2. Assign a function or remove a function assignment:
   - Type **A** next to the function you want to assign to this contact. An asterisk (*****) will appear in the Sel field.
   - If a function is selected, type an **R** next to the function to remove the function assignment. The asterisk (*****) will disappear.
3. When all of the functions have been assigned, press END to return to the “Email Contacts Screen”.

Transfer Assignments

The Transfer line command on the “Email Contacts Screen” (Figure 10-1 on page 10-1) allows you to copy all assignments defined to the selected contact to another e-mail contact.

1. From the “Email Contacts Screen” (Figure 10-1 on page 10-1), type **T** on the contact whose assignments you want to copy. The “Select Contact Screen” appears (Figure 10-8).

Figure 10-8. Select Contact Screen



2. Type **S** next to the e-mail contact that you want to receive the same assignments as the originally selected contact.
3. Press Enter to copy the assignments and return to the "Email Contacts Screen".

Delete an E-mail Contact

On the "Email Contacts Screen", type D (delete) beside the contact you want to delete and press Enter. The e-mail contact will be immediately deleted without a confirmation screen.

Chapter 11.
Test Execution Reports

After you have run your Automated Testing Vehicle (ATV), you can view results in several types of report. For Detail reports — see “Detail Reports” on page 11-2. For Summary reports — see “Summary Reports” on page 11-3. For Job Log reports — see “Job Log Reports” on page 11-3. In addition, you can see test case run results reports.

Note: For easier display, the report screens in this chapter have been combined. On your actual screen, press **FORWARD** (PF8) or **BACKWARD** (PF7) to view all of the report information.

Working with Reports

1. From the “Hiperstation - Product Menu”, select **4 Hiperstation ATV Manager**. The “Automated Testing Vehicle List Screen” appears.
2. Open an ATV by typing an **O** on the desired ATV. The “Automated Testing Vehicle Screen” appears.
3. Select option **7 Reports**. The “Reports Screen” appears (Figure 11-1) containing a list of all of the reports that are currently available for this ATV.

Figure 11-1. Reports Screen

```
Hiperstation --------------------- Reports ------------------- Row 1 to 4 of 4
Command ===>                                                  Scroll ===> PAGE

Line commands:. . S)elect, D)elete

ATV name . HLMTST01         Application being tested . HIPERSTATION
Description . PERFORMANCE VEHICLE

S Type      Name      Date      Time     Status  Description
- --------  --------  --------  -------- ------- ------------------------------
_ VEHICLE   HLM0608A  06/11/09  10:39:50 Pass    1 pass, 0 fail, 1 skipped
_ PLAYLIST  PLY0611A  06/11/09  10:15:39 Pass    1 pass, 0 fail, 0 skipped
_ TESTCASE  TST10B    06/11/09  10:08:44 Pass
_ TESTCASE  TST10A    06/11/09  10:08:17 Fail
****************************** Bottom of data ********************************
```

4. Type **S** next to the report you want to select for viewing. The “Report Selection Screen” appears (Figure 11-2).
5. Type **D** next to the report to delete the report entry in the ATV. The report datasets are ***not*** deleted, but are retained for historical purposes and to provide test result integrity.

Figure 11-2. Report Selection Screen

```
Hiperstation ----------------- Report Selection ----------------- Row 1 from 2
Command ===>                                                    Scroll ===> PAGE

Primary commands: Detail report, Job log, Summary report

Line commands:. . O)pen test case

Vehicle . .  HLMTST01        Application being tested. HIPERSTATION
Description. PERFORMANCE VEHICLE
Run request for entire vehicle -  1 pass, 0 fail, 1 skipped
Date . . . . 06/11/09      TIME . .  10:39:50      Status . .  Pass

                              Prior   Execution
S Time      Function TestCase Status  Result
- --------- -------- -------- ------  ----------------------------------------
_ 10:39:50  COMMON   TST10A   Incompl Skip     Status = Incomplete
_ 10:39:51  COMMON   TST10B   Pass    Pass
****************************** Bottom of data ********************************
```

This screen contains a list of test cases that were run for this ATV. You can open a test case or view a job log, detail report, or summary report.

Detail Reports

A detail report displays the detail dataset created by the ATV supervisor in Browse mode. It has summary report information followed by one detail line for each test case.

1. On the "Report Selection Screen", type **D** (Detail report) on the command line. The "Detail Report Screen" appears (Figure 11-3).

Figure 11-3. Detail Report Screen

```
   Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    USR2503.HLMTST01.DTL.HLMTST01.D09162.T1039 Line 00000000 Col 001 080
 Command ===>                                                  Scroll ===> PAGE
******************************** Top of Data *********************************

+----------------------------------------+
|  Hiperstation 8.0 ATV Activity Report  |
+----------------------------------------+

Start Date:  05/11/10       Start Time:  10:39:50
End Date:    05/11/10       End Time:    10:40:01

System name . . . . . . . . MACH1
Vehicle name. . . . . . . . HLMTST01
Vehicle description . . . . PERFORMANCE VEHICLE
Application being tested. . HIPERSTATION

Test run initiator. . . . . USR2503
Run requested . . . . . . . Vehicle

Test cases selected . 2
Test cases passed . . 1
Test cases failed . . 0
Test cases skipped. . 1

Detailed results:
                            Prior    Execution
Time     Function Test Case Status   Result
-------- -------- --------- -------  ------------------------------------
10:39:51 COMMON   TST10B    Pass     Pass
10:39:50 COMMON   TST10A    Incomple Skip    Status = Incomplete
****************************** Bottom of Data ********************************
```

This screen displays all pertinent statistics regarding the test run of a Vehicle, Playlist, etc. Information on this report includes the start and end date and time, the name of the system, vehicle name and description, the application being tested, the person who initiated the report, number of test cases selected, number of test cases that passed, failed, and were skipped, and specific information on individual test cases.

2. After reviewing the report information, press END to return to the "Report Selection Screen".

Summary Reports

A Summary report displays the summary dataset created by the ATV supervisor in ISPF Browse mode.

1. On the "Report Selection Screen", type **S** (Summary report) on the command line. The "Summary Report Screen" appears (Figure 11-4).

Figure 11-4. Summary Report Screen

```
   Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    USR2503.HLMTST01.SUM.HLMTST01.D09162.T1039 Line 00000000 Col 001 080
 Command ===>                                            Scroll ===> PAGE
******************************** Top of Data ********************************

Run request: Vehicle  - HLMTST01
Test cases
 Selected . 2
 Passed . . 1
 Failed . . 0
 Skipped. . 1

System name:  MACH1
Vehicle name: HLMTST01
Vehicle description: PERFORMANCE VEHICLE
Test run initiator: USR2503

Start Date:  05/11/10       Start Time:  10:39:50
End Date:    05/11/10       End Time:    10:40:01

****************************** Bottom of Data ******************************
```

The information you will find on this screen includes the test run start and end date and time, LPAR name, ATV vehicle name and description, and the name of the application being tested. In addition, it lists the total number of test cases, test cases passed, test cases failed, and test cases skipped in this run. Test cases skipped includes test cases with incomplete and hold status.

2. After reviewing the report information, press END to return to the "Report Selection Screen".

Job Log Reports

A Job Log report displays the job log dataset created by the ATV supervisor in ISPF Browse mode. It is the output of the job submitted by the ATV and includes control cards and job- related messages.

1. On the "Report Selection Screen", type **J** (Job Log) on the command line. The Job Log Report screen appears (Figure 11-5).

Figure 11-5. Job Log Report Screen

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    USR2503.HLMTST01.JLG.HLMTST01.D09162.T1039 Line 00000000 Col 001 080
 Command ===>                                                 Scroll ===> PAGE
******************************** Top of Data ********************************
10:39:49 ATVSU100I Test Run starting on  11 May 2010
10:39:49 ATVSU518I Reading control cards
10:39:49 ATVSU519I Input (PLAYTYPE="V")
10:39:49 ATVSU519I Input (PLAYNAME="HLMTST01")
10:39:49 ATVSU519I Input (VCLNAME="HLMTST01")
10:39:49 ATVSU519I Input (INDEX_DSN="ENTQA.VP.R800.BUILDGA.ATV.MSTINDX")
10:39:49 ATVSU519I Input (REXXEXEC="VP.TECH.QQF800.SQQFEXEC")
10:39:49 ATVSU519I Input (QAHSLOAD="VP.TECH.QQF800.SQQFLOAD")
10:39:49 ATVSU519I Input (QAHSSCRP="VP.TECH.QQF800.SQQFSCRP")
10:39:49 ATVSU519I Input (JOBLOG_DSN="USR2503.HLMTST01.JLG.HLMTST01.D09162.T1039
10:39:49 ATVSU519I Input (ATVJOBC1="//USR2503A JOB ('ACCOUNT',5M-0000),'H
10:39:49 ATVSU519I Input (ATVJOBC2="//         CLASS=A,MSGCLASS=R,NOTIFY=&SYSUID
10:39:49 ATVSU519I Input (ATVJOBC3="//*")
10:39:49 ATVSU519I Input (ATVJOBC4="//*")
10:39:49 ATVSU519I Input (ATVJOBC5="//*")
10:39:49 ATVSU519I Input (ATVPRFX="MACH1")
10:39:49 ATVSU519I Input (ATVSUFX="4")
10:39:49 ATVSU519I Input (ATVSMGMT="")
10:39:49 ATVSU519I Input (ATVSSTOR="")
10:39:49 ATVSU519I Input (ATVSVOL=" ")
10:39:49 ATVSU519I Input (ATVSDEV=" ")
10:39:49 ATVSU519I Input (ATVSDATA="")
10:39:49 ATVSU519I Input (ATVSUNIT="")
10:39:49 ATVSU519I Input (ATVSPRI=" ")
10:39:49 ATVSU519I Input (ATVSSEC=" ")
10:39:49 ATVSU519I Input (ATVEMAIL="")
10:39:49 ATVSU519I Input (ATVLANG="ATVLANG")
10:39:49 ATVSU530I Waiting for USR2503.HLMTST01
10:39:49 ATVSU531I Obtained USR2503.HLMTST01
10:39:50 ATVTE110I Running test case (TST10A)
10:39:51 ATVTE111I Test case ended (TST10A)
10:39:51 ATVTE110I Running test case (TST10B)
10:39:52 ATVTE150I Asset Executed - Jobname: JOBNAME Jobid: JOBID
10:39:53 ATVRV010I Symbol source  Symbol    Replacement text
10:39:53 ATVRV010I -------------  --------  ----------------------------------
10:39:53 ATVRV010I ATV scope      QAH       Hiperstation
10:39:53 ATVRV010I ATV system     %VCLNAM%  HLMTST01
10:39:53 ATVRV010I ATV system     %VCLPFX%  USR2503.HLMTST01
10:39:53 ATVRV010I ATV system     %VCLLIB%  USR2503.HLMTST01.LOAD
10:39:53 ATVRV010I ATV system     %VCRLIB%  USR2503.HLMTST01.EXEC
10:39:53 ATVRV010I ATV system     %TCSNAM%  TST10B
10:39:53 ATVRV010I ATV system     %FUNCNM%  COMMON
10:39:53 ATVRV010I ATV system     %RPLAY#%  0
10:40:00 ATVTE150I Asset Executed - Jobname: USR2503X Jobid: J0290495
10:40:00 ATVTE111I Test case ended (TST10B)
10:40:01 ATVSU560I Detail Dataset Name:  USR2503.HLMTST01.DTL.HLMTST01.D09162.T1
10:40:01 ATVSU565I Summary Dataset Name: USR2503.HLMTST01.SUM.HLMTST01.D09162.T1
10:40:01 ATVSU570I Test cases selected:  2
10:40:01 ATVSU575I Test cases passed:    1
10:40:01 ATVSU580I Test cases failed:    0
10:40:01 ATVSU585I Test cases skipped:   1
10:40:02 ATVSU566I Joblog Dataset Name: USR2503.HLMTST01.JLG.HLMTST01.D09162.T10
10:40:02 ATVSU529I No contacts assigned to email distribution list
10:40:02 ATVSU101I Test Run ending on  11 May 2010
****************************** Bottom of Data ******************************
```

2. After reviewing the job log report information, press END to return to the “Report Selection Screen”.

Opening a Test Case

In addition to accessing test cases from the “Automated Testing Vehicle Screen”, you can also open a test case from the “Report Selection Screen”.

1. On the “Report Selection Screen”, type **O** (Open test case) next to the test case you want to review. The “Test Case Screen” appears (Figure 11-6).

Figure 11-6. Test Case Screen

```
Hiperstation --------------------- Test Case ---------------------- Row 1 of 5
Command ===>                                                  Scroll ===> PAGE

Primary commands: Run, RESults, Approve, Hold, REMediate, Notepad

Line commands:    (I)nsert asset, (R)insert replay, (U)pdate
                  (D)elete, (M)ove (A,B), (P)ass/fail condition

Test Case   MQSCTS1     Test Case Status Pass
Description FIRST TEST CASE FOR MQSC

S Object   Type/TPF P/F? Asset name or Replay 3270 script list
- -------- -------- ---- ------------------------------------------------------
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.INPUT.REPO
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.OUTPUT.LOG
_ Asset    Dataset  None VP.ATV.USER2312.MQSC.C61071K.OUTPUT.SCR
_ Asset    JCL      None VP.ATV.USER2312.JCL(MQCSTS1)
_ Asset    JCL      Pass VP.ATV.USER2312.JCL(MQCSTS1C)
****************************** Bottom of data ********************************
```

Note: There will be some differences on the "Test Case Screen" depending on whether you are looking at a test case for the Regression Vehicle or the Performance Vehicle. For complete details on working with test cases, see Chapter 7, "Create, Execute, and Maintain Test Cases".

2. After reviewing the test case, press END to return to the "Report Selection Screen".

Test Case Run Results

1. From the "Test Case Screen" (Figure 11-6), type **RES**(ults) on the command line. The "Test Case Run Results Screen" appears (Figure 11-7).

Figure 11-7. Test Case Run Results Screen

```
Hiperstation -------------- Test Case Run Results ------------ Row 1 to 5 of 5
Command ===>                                                  Scroll ===> PAGE

Primary commands: Assign status, History, Run details

Line commands:. . (V)iew, (P)romote to Baseline

Test Case TCASE1   Test Case Status Hold
Last Run Date  05/11/10  Time 14:20:59  Result SKIP
Failure Reason STATUS = HOLD

S Data Type     Dataset name
- ------------  -------------------------------------------
_ Result        VP.ATV.HLMTST01.TCASE1.DUBLIB
_ Result        VP.ATV.HLMTST01.TCASE1.JCL
_ Result        VP.ATV.HLMTST01.TCASE1.MISMATCH
_ Result        VP.ATV.HLMTST01.TCASE1.OUTPUT
_ Result        VP.ATV.HLMTST01.TCASE1.SYSPRINT
****************************** Bottom of data ********************************
```

2. Type **V** next to the results dataset you want to view. The dataset you select to view determines what type of report you will see.
   - The SUMRPT dataset shows the following information for a specific test case within the ATV:
     - Allowed Failure Percent
     - Baseline Response Time
     - Playback Response Time

  - Current Playback Percent
  - Performance Playback Result
  - Total Transaction Count

– The JCL results shows the ATV replay execution JCL that was used to run this test case.

– The JCLREPT results show the ATV JESLOG report.

– The SYSPRINT results show input statements, elapsed time, number of transactions, task activation times, script caching storage utilization, among other things.

Chapter 12.
ATV Profile Defaults

This chapter describes how to set up your ATV profiles if they were not set at installation time, or if you want to modify them after installation. For additional information about editing your profile settings, see the *Hiperstation Installation and Configuration Guide*.

The attributes in this section are used for the allocation of the ATV database. The ATV database is a KSDS VSAM cluster. The fields are initialized to the values specified in the profile selected for the ATV.

1. Select option **11 ATV Manager** from the Hiperstation Profile screen (Figure 12-1).

   Note: For easier display, the initial Profile screens have been combined. Figure 12-1 shows the profile selection screen. The ATV Manager screens in this section have been combined. Figure 12-2 shows all of the ATV Manager profile settings. On your actual screen, press **FORWARD** (PF8) or **BACKWARD** (PF7) to view all of the fields.

Figure 12-1. Hiperstation Profile Screen

```
Hiperstation   -------------- Hiperstation Profile ----------------------------
OPTION  ===>
                                                                        More:     +
Primary commands: menu-number, ALL, CANCEL
   Line commands: S or / to select options.

Active Profile:
  Dataset        ===> 'USER2312.HIPER.PROFILE'
  Member         ===> HIPER
  Description    ===> changed description

   _  1 Domain Traveler  Recording and Playback defaults
   _  2 APPC             Global Record and Script Create settings
   _  3 3270/LU0         Global Record and Script Create settings
   _  4 WebSphere MQ     Global Record and Script Create settings
   _  5 TCP/IP           Global Record and Script Create settings
   _  6 Auditing 3270    Auditing defaults for 3270
   _  7 Auditing MQ      Auditing defaults for WebSphere MQ
   _  8 Auditing TCP/IP  Auditing defaults for TCP/IP
   _  9 Playback MQ      MQ Playback parameter defaults
   _ 10 Playback TCP     TCP Playback parameter defaults
   _ 11 ATV Manager      Test Vehicle defaults

Should changes made elsewhere to Profile values be saved?
  Profile Autosave   ===> Y                  (Y = YES, N = NO OR A = ASK)

Should changes made elsewhere to dataset names be saved?
  DSN Autosave       ===> Y                  (Y = YES, N = NO)

Email address: ____________________________________________________________

Codepage: ISO8859-1

Job statement information for batch jobs:
===> //XXXXXXXA JOB ('ACCOUNT',5M-0000),'HIPERSTN',
===> //         CLASS=Q,MSGCLASS=R,NOTIFY=&SYSUID
===> //*
```

The ATV Manager Defaults screen appears (Figure 12-2).

Figure 12-2. ATV Manager Defaults - Allocation and Performance Test Settings

```
Hiperstation   -------------- ATV Manager Defaults ----------------------------
Profile: HIPER     Profile Dataset: 'USER2312.HIPER.PROFILE'
OPTION  ===> ____________________________________________________
                                                                More:     +
ATV Database and Asset Allocation settings:
  Specify SMS Class Information:
    Management       ===> ________
    Storage          ===> ________
    Data             ===> ________
  Space Allocation:   Data Component
    Units            ===> _____
    Primary          ===> ______
    Secondary        ===> ______
  Space Allocation:   Index Component
    Units            ===> _____
    Primary          ===> ______
    Secondary        ===> ______

ATV Script dataset allocation settings:
  Management Class . ===> ________   (Blank for default management class)
  Storage Class  . . ===> ________   (Blank for default storage class)
   Volume Serial . . ===> ________   (Blank for system default volume)
   Device Type . . . ===> ________   (Generic unit or device address)
  Data Class . . . . ===> ________   (Blank for default data class)
   Space Units . . . ===> ________   (BLKS, TRKS, CYLS, KB, MB, or BYTES)
   Primary Quantity  ===> ________    (In above units)
   Secondary Quant.  ===> ________    (In above units)

TEST CASE SETTINGS:
Indicate Status to Set Upon Execution of this Test Case Step:
 _ 1.None (Always pass this test case step)
   2.Fail (Indicate test case has failed if return code is within range)
   3.Pass (Indicate test case step has passed if return code is within range)

Specify Return Code Range:
 Minimum Return Code ===> ____
 Maximum Return Code ===> ____

SETTINGS:
 ATV Master
   Index Name        ===> ____________________________________________
 ATV High Level
    Qualifier        ===> ________

 Profile to Use for Regression Automated Test Vehicles:
  Name:              ===> ________
  Dataset:           ===>____________________________________________

 Profile to Use for Performance Automated Test Vehicles:
  Name:              ===> ________
  Dataset:           ===> ____________________________________________

 Replace Like-named
  Members on Import  ===> _            (Enter "/" to select)
```

2. Fill in the ATV database and asset allocation settings.
   - SMS Class Information:
     - Management — The SMS Management Class to be used for dataset allocation.
     - Storage — The SMS Storage Class to be used for dataset allocation.
     - Data — The SMS Data Class to be used for dataset allocation.
   - Space Allocation: Data Component:
     - Units — The space allocation unit to be used for the allocation of the data component for this dataset.
     - Primary — The number of units to be used for the primary space allocation of the data component for this dataset.
     - Secondary — The number of units to be used for the primary space allocation of the data component for this dataset.

- Space Allocation: Index Component:
  - Units — The space allocation unit to be used for the allocation of the index component for this dataset.
  - Primary — The number of units to be used for the primary space allocation of the index component for this dataset.
  - Secondary — The number of units to be used for the primary space allocation of the index component for this dataset.
- ATV Script dataset allocation settings — Set allocation attributes for the ATV script file. The fields are initialized to the values specified in the profile selected for this ATV.
  - Management Class — The SMS Management Class to be used for dataset allocation.
  - Storage Class — The SMS Storage Class to be used for dataset allocation.
  - Volume Serial — The volume serial of the direct access volume you wish to contain the dataset.
  - Device Type — The generic unit address for the direct access volume you wish to contain the dataset.
  - Data Class — The SMS Data Class to be used for dataset allocation.
  - Space Units — The space allocation unit to be used for the allocation of the data component for this dataset.
  - Primary Quantity — The number of units to be used for the primary space allocation of the data component for this dataset.
  - Secondary Quantity — The number of units to be used for the primary space allocation of the data component for this dataset.

3. Set your pass/fail test case settings.

   The following settings specify the status to set upon execution of this test case step. Enter the number of the setting you want to use.

   1. **None:** Always Pass this test case step.
   2. **Fail:** Indicate test case has failed if return code is within range
   3. **Pass:** Indicate test case step has passed if return code is within range.

4. **Specify return code range**. Set a minimum and maximum return code range.
5. Settings
   - Enter the **ATV Master Index Name**. This indicates the file used as an index for ATV(s) that are created. If not specified, the value of parameter QFATVMIF in member ETRMSPAR will be used. To create a new ATV Master Index file, use either the index file created at installation as a model, or use JCL member HSATVJCL in your INSTALL dataset.
   - Enter the **ATV High Level Qualifier**. This indicates the file used as an index for ATV(s) that are created. If not specified, the value of parameter QFATVHLQ in member ETRMSPAR will be used.
   - Enter the **Profile Name** and **Dataset** to use for regression Automated Test Vehicles. This value will be suggested as the model profile to copy into your new ATV when creating a regression vehicle. You can override this value when creating an ATV.
   - Enter the **Profile Name** and **Dataset** to use for performance Automated Test Vehicles. This value will be suggested as the model profile to copy into your new ATV when creating a performance vehicle. You can override this value when creating an ATV.

– **Replace Like-named Members on Import** specifies that imported scripts will replace script members with identical names. Enter a slash (/) to select.

Appendix A.
Customer Support Diagnostics

The Customer Support Diagnostic Report produces a list of PTFs that have been applied to your installation. Customer Support may ask you to generate the report to aid in diagnosing an issue.

Note: Generating this report requires READ access to the SMP/E datasets. Consult with your Security Administrator if you do not have the proper authority.

To generate the Customer Support Diagnostic:

1. On the Hiperstation Product Menu, type **PTFS** on the Option Line and press Enter. The “Hiperstation - Diagnostics Screen” appears (Figure A-1).

Figure A-1. Hiperstation - Diagnostics Screen

```
 ---------------------- Hiperstation - Diagnostics -------------------
Command ===>

 Specify the install and output datasets, then press ENTER to continue.

 Input datasets to use:
   Global CSI dataset  . . 'COMPWARE.QQF160.GLOBAL.CSI'
   Target Zone . . . . . . QQF160

 Output datasets to use:
   PTF output list . . . . 'JSMITH.PTFS.REPORT'


 Job statement information for batch job:
 ===> //USER05 JOB ('ACCOUNT',99),'J.SMITH',REGION=0M,
 ===> //   NOTIFY=&SYSUID,CLASS=A,MSGCLASS=R,USER=JSMITH
 ===> //*
 ===> //*
```

   The **Global CSI dataset** is the SMP/E Global CSI dataset. The **Target Zone** is the SMP/E Target Zone. These fields default to the dataset name and target zone established by your installer. The **PTF output list** is the sequential dataset to contain the report.

2. Complete the **PTF output list** field, insert a job card, and press Enter. Hiperstation submits the job.
3. Once the job has completed, view the report with ISPF. Figure A-2 shows a sample report.

Figure A-2. Customer Support Diagnostic Report

```
******************************** Top of Data ********************************
 +-------------------------------------------------------------+
 |            Hiperstation PTF list 05/10/07 15:32:08          |
 |             Loadlib: SYS2.HIPER.SQQFLOAD                    |
 +-------------------------------------------------------------+
  QF43181 QF44415 QF45463 QF46350 QF47331 QF47364 QF47687 QF47857
  QF48238 QF48264 QF48286 QF48302 QF48428 QF48749 QF48753 QF48864
  QF48915 QF48950 QF48953 QF49143 QF49175 QF49197 QF49312 QF49420
  QF49423 QF49451 QF49580 QF49647 QF50149 QF50220 QF50276 QF50354
  QF50457 QF50731
******************************** Bottom of Data ********************************
```

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