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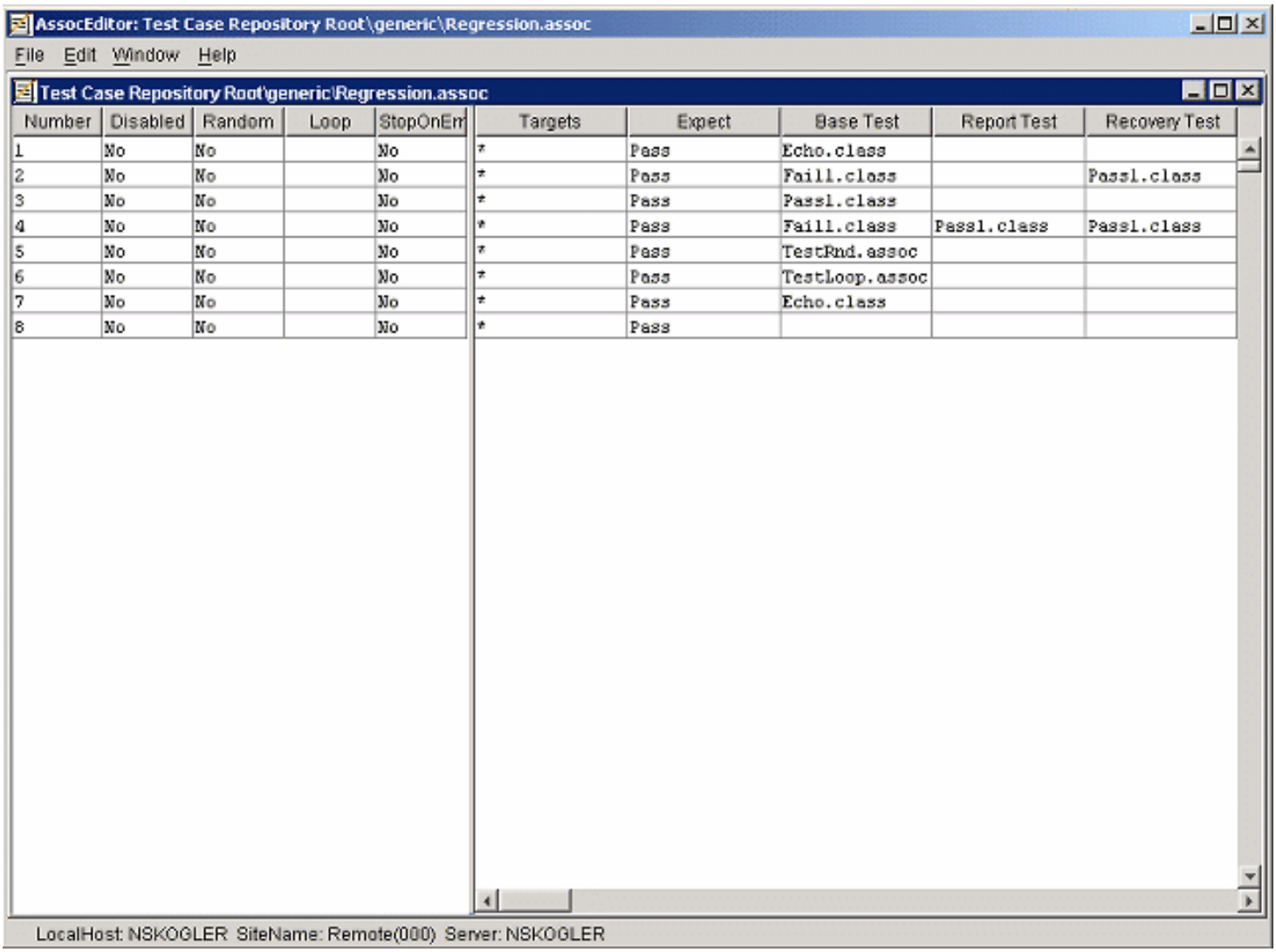
Perseus Association Script Editor and Reference



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Description

Introduction

The Perseus test system introduces the concept test associations. Test association allow the user to construct a single large test that is constructed from a sequence of smaller test. The primary use of associations is to build large suites of tests into device regression sequences. The association editor allows the user to view and edit the association files..

The association editor, in the context of the Perseus test system, is a remote network application. It may be executed

locally at a Perseus server site. Alternately it may be executed remotely at a site connected via company intranet to a Perseus server site.

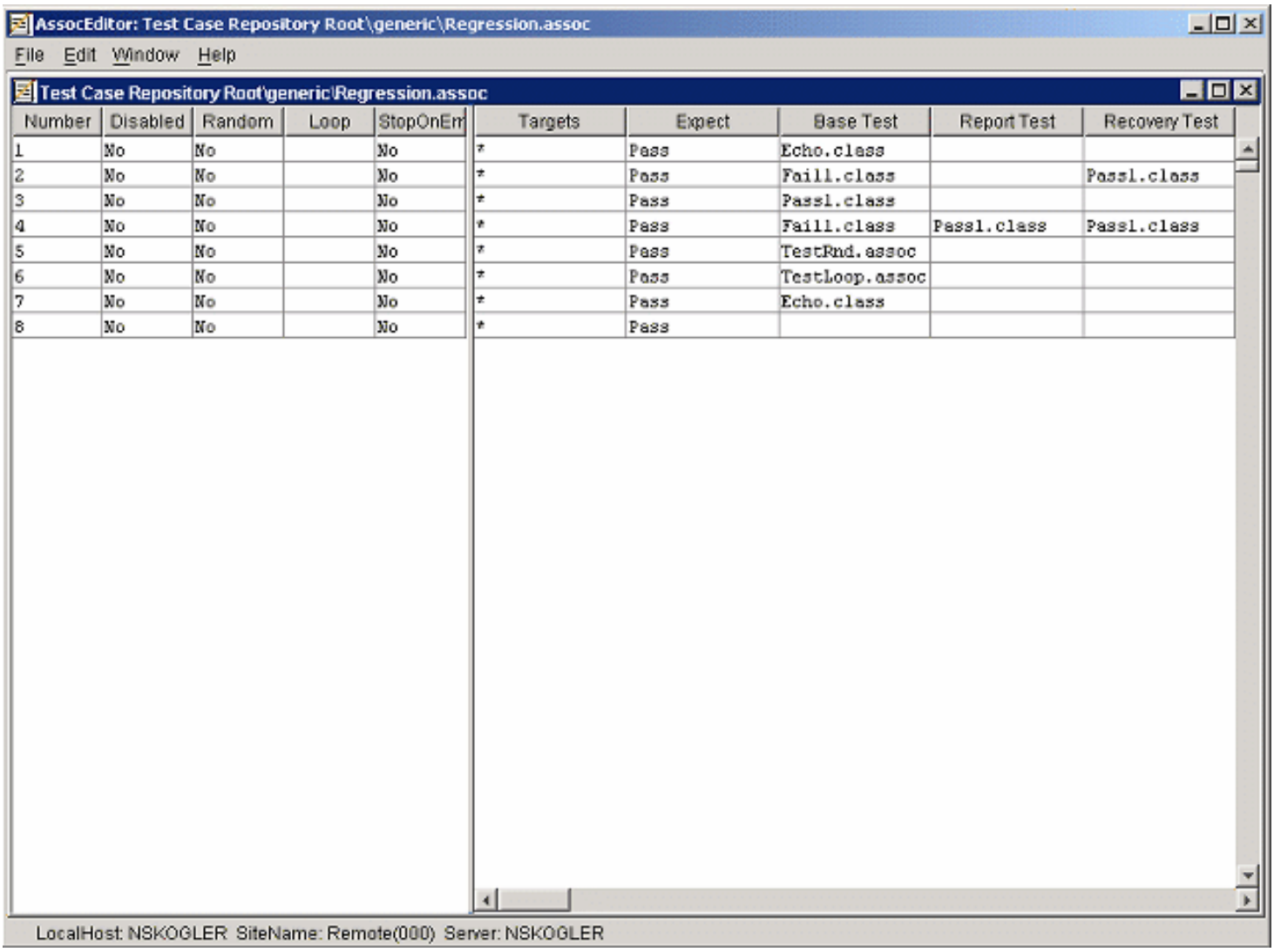
The association editor, like other components within the Perseus test system, may be executed cross platform. The currently supported platforms are Linux and Windows (98, NT 4.0, 2000, and XP.) When the compatibility GUI is used to remotely view the activity on a given Server, the operating systems of the two systems do not have to be matched.

Changes

The association editor is new to the Perseus test system, and does not simulates any the function of previous Flexstar products.

Operation

Pull-down Menu Options



This figure above shows typical operation of the association editor. The various options available via the pull-down menus are as indicated below:

File Pull-down Menu:

- **New**: Creates a new blank association editor session within the MDI frame.
- **Select Server*:*** Allows the user to connect the association editor to a new server. The user may select from a list of recently visited servers, or enter the network address of a new server.
- **Open:** Open an existing file for editing.
- **Close:** Close the currently selected MDI frame.
- **Save:** Save the selected file to its last file name.

- **Save As:** Save the selected file to a new file name.
- **Print:** Print the selected file.
- **Print Preview:** Print the selected file, allow more platform specific reviewing and printer setup.
- **Exit:** Exit the association editor.

Edit Pull-down Menu:

- **Cut*:*** Remove any selected text and place that text on the clipboard.
- **Copy:** Copy any selected text on to the clipboard.
- **Paste:** Paste any text currently on the clipboard at the current edit location.
- **File Globals:** Allows the user to change some global constants for the file being edited.

Window Pull-down Menu:

- **Tile Horizontally:** Horizontally arrange MDI windows on the desktop.
- **Tile Vertically:** Vertically arrange MDI windows on the desktop.
- **Cascade:** Arrange MDI windows on the desktop in a cascading format.

Help Pull-down Menu:

- **About:** Displays information on the version of the ORP editor.
- **Contents:** Opens a help session for the ORP editor at its contents page.

Using the Editor

The association editor consists of a number of columns. The use of these columns is as outlined below:

- **Number:** This column contains tracking line numbers for entries in the association file.
- **Disabled:** This column of flags allows individual lines within the association to be disabled. This feature may be used as an easy method to disable non-working lines without having to removing those lines from the file.
- **Random:** This column of flags allows the user to form groups of random test lines. Consecutive test lines (two or more) that are flagged random will be executed in random order.
- **Loop:** This column allows the user to define simple looping constructs.
- **Stop On Error:** This column of flags allows the user fine grain control on when a failed test should stop the execution of an association.
- **Targets:** This column may be used to filter where to execute individual lines within the association.
- **Expected:** This column of flags defines the expected results from each line in the association..
- **Base:** This defines the default test to be executed at a given line within the association.
- **Report:** This defines a test to be run in the event that the base test fails.
- **Recovery:** This defines a test to be run in the event that the base, or report test fails.

The data columns within the editor may be edited by double clicking with the mouse on the desired cell. On some operating system the user may be able to drag-and-drop tests into the base, report, and recovery columns. The length of the file may be extended by pasting a new line, or lines, at the last position within the file. The user may also cut and paste between, and within files being edited. Typical editor keys such as delete, control-c, and control-v have meanings as indicated in the edit pull-down menu.

Output

The typical output generated from the regression Sequencer during the execution of an association is as include below. This output is placed in the server report directory as called out in the server configuration dialog. The name of the file is based on the name of the association being run and a unique test tracking number. The file contains information on the order of tests and the logical pathing
that was taken for each execution.

```
2002.09.13 14:34:30 Start Assoc
2002.09.13 14:34:30       Start base Echo.class
2002.09.13 14:34:31 Passed Finish base Echo.class Expected: Pass
2002.09.13 14:34:31       Start base Fail1.class
2002.09.13 14:34:32 Failed Finish base Fail1.class Expected: Pass
2002.09.13 14:34:32       Start recovery Pass1.class
2002.09.13 14:34:34 Passed Finish recovery Pass1.class
...
2002.09.13 14:34:43 Passed Finish base Echo.class Expected: Pass
2002.09.13 14:34:43 Passed Finish base TestLoop.assoc Expected: Pass
2002.09.13 14:34:43       Start base Echo.class
2002.09.13 14:34:43 Passed Finish base Echo.class Expected: Pass
```

2002.09.13 14:34:43 Finish Assoc

Typical Use

The typical use of the Perseus test system association function is to form large regression sequences from smaller test. The ATA and CD-ROM example given below follows this pattern.

AtaAll.accoc:
- Device Diagnostic tests.
- Reset tests.

AtaBasic.assoc:
- Identify device tests.
- PIO Transfer mode tests.

AtapiBasic.assoc:
- Identify packet device tests.
- Mode sense tests.
- Mode select tests.

AudioVisual.assoc:
- Streaming PIO tests.
- Streaming DMA test.

Cd.assoc:
- Erase tests.
- Packet format tests.
- Volume control tests.
- Play Test tests.

Reading.assoc:
- Seek tests.
- Read only tests.

DataInteg.assoc:
- Read Write tests.

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