Configuring Driver for Host/Target Testing

Overview

TBrun is set up, by default, for Host/Host testing scenarios. It automatically generates the driver program which:

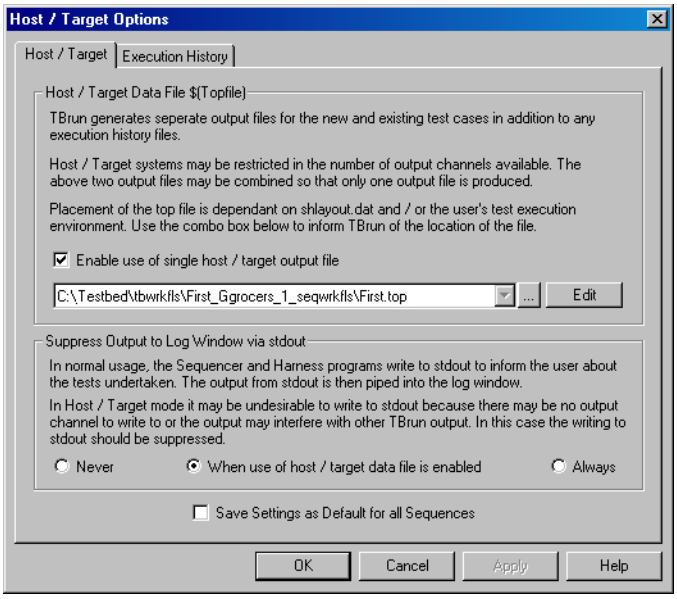
1. Opens an output file.
2. Writes information to the file.
3. Closes the file.

The files are called:

- `<sequence>.sop` for Sequencer results.
- `<sequence>.hop` for Harness results.

When **Host/Target Data File** is selected via the ***Host/Target Options*** option on the ***Configure*** menu the output is placed in:

- `<sequence>.top` for Sequencer and Harness results.



This output is then split automatically by *TBrun* into the sequencer and harness options. This facility should be used when targets allow only one output stream and so the harness and sequencer outputs are interleaved.

LDRA Testbed standard instrumentation, controlled by `c/cppinstr.dat` also creates a `<sourcefilename>.exh` file for coverage information, when in White Box mode.

The driver (harness and sequencer) ouputs give details on the values of output variables produced when executing unit tests. It is this information that *TBrun* uses to compare tests during regression and store outputs during the test case creation.

The creation of these output files are controlled by the *TBrun* data file `c/cppshlayout.dat`.

c/cppshlayout.dat Data File

The `c/cppshlayout.dat` data file contains the following information:

1. Globals for output - used to produce driver output files.
2. Existing Test Case initialisation - initialises existing Test Cases by opening the file to write existing test case data to.
3. Existing Test Case completion - completes the process of writing output for an existing Test Case.
4. New test case initialisation - initialises new Test Cases by opening the file to write new Test Case data to.

5. New test case completion - completes the process of writing output for a new test case.
6. *TBrun* output routine - routine that writes information to the data files.
7. Driver declarations - general declarations required in the driver program.
8. Host declarations - general declarations required in the host program.

The sections above can be edited to meet the requirements of a Host/Target environment.

TBrun ships with, amongst others, the following configurations of the file:

- `cshlayout.dat` - default for C files.
- `cppshlayout.dat` - default for C++ files.
- `afxshlayout.dat` - for C++ files using the Microsoft Foundation Classes.
- `stlshlayout.dat` - for C++ files using the Standard Template Library.

The `shlayout` file to be used can be set and edited from the ***Configure*** menu via the ***Driver Generation & Layout Options*** option. Select the **S & H Generation** tab, this will bring up the location and edit controls.