

NAME

Test::Harness - Run Perl standard test scripts with statistics

VERSION

Version 3.38

SYNOPSIS

```
use Test::Harness;
runtests(@test_files);
```

DESCRIPTION

Although, for historical reasons, the *Test::Harness* distribution takes its name from this module it now exists only to provide *TAP::Harness* with an interface that is somewhat backwards compatible with *Test::Harness* 2.xx. If you're writing new code consider using *TAP::Harness* directly instead.

Emulation is provided for runtests and execute_tests but the pluggable 'Straps' interface that previous versions of *Test::Harness* supported is not reproduced here. Straps is now available as a stand alone module: *Test::Harness::Straps*.

See *TAP::Parser*, *TAP::Harness* for the main documentation for this distribution.

FUNCTIONS

The following functions are available.

runtests(@test_files)

This runs all the given @test_files and divines whether they passed or failed based on their output to STDOUT (details above). It prints out each individual test which failed along with a summary report and a how long it all took.

It returns true if everything was ok. Otherwise it will $\mathtt{die}()$ with one of the messages in the DIAGNOSTICS section.

execute tests(tests => \@test files, out => *FH)

Runs all the given $@test_files$ (just like runtests()) but doesn't generate the final report. During testing, progress information will be written to the currently selected output filehandle (usually STDOUT), or to the filehandle given by the out parameter. The *out* is optional.

Returns a list of two values, \$total and \$failed, describing the results. \$total is a hash ref summary of all the tests run. Its keys and values are this:

```
bonus
               Number of individual todo tests unexpectedly passed
               Number of individual tests ran
max
ok
              Number of individual tests passed
sub_skipped Number of individual tests skipped
               Number of individual todo tests
todo
files
              Number of test files ran
good
             Number of test files passed
bad
             Number of test files failed
             Number of test files originally given
tests
skipped
               Number of test files skipped
```

If \$total->{bad} == 0 and \$total->{max} > 0, you've got a successful test.

\$failed is a hash ref of all the test scripts that failed. Each key is the name of a test script, each



value is another hash representing how that script failed. Its keys are these:

name Name of the test which failed
estat Script's exit value
wstat Script's wait status
max Number of individual tests
failed Number which failed
canon List of tests which failed (as string).

\$failed should be empty if everything passed.

EXPORT

&runtests is exported by Test::Harness by default.

&execute_tests, \$verbose, \$switches and \$debug are exported upon request.

ENVIRONMENT VARIABLES THAT TAP::HARNESS::COMPATIBLE SETS

Test::Harness sets these before executing the individual tests.

HARNESS ACTIVE

This is set to a true value. It allows the tests to determine if they are being executed through the harness or by any other means.

HARNESS_VERSION

This is the version of Test::Harness.

ENVIRONMENT VARIABLES THAT AFFECT TEST::HARNESS

```
HARNESS_PERL_SWITCHES
```

Setting this adds perl command line switches to each test file run.

For example, HARNESS_PERL_SWITCHES=-T will turn on taint mode.

HARNESS PERL SWITCHES=-MDevel::Cover will run Devel::Cover for each test.

-w is always set. You can turn this off in the test with BEGIN { $\$^w = 0$ }.

HARNESS_TIMER

Setting this to true will make the harness display the number of milliseconds each test took. You can also use *prove*'s --timer switch.

HARNESS_VERBOSE

If true, Test::Harness will output the verbose results of running its tests. Setting \$Test::Harness::verbose will override this, or you can use the -v switch in the prove utility.

HARNESS OPTIONS

Provide additional options to the harness. Currently supported options are:

j<n>

Run <n> (default 9) parallel jobs.

С

Try to color output. See "new" in TAP::Formatter::Base.

a<file.tgz>

Will use TAP::Harness::Archive as the harness class, and save the TAP to file.tgz

fPackage-With-Dashes

Set the formatter_class of the harness being run. Since the HARNESS_OPTIONS is



seperated by :, we use - instead.

Multiple options may be separated by colons:

HARNESS_OPTIONS=j9:c make test

HARNESS_SUBCLASS

Specifies a TAP::Harness subclass to be used in place of TAP::Harness.

HARNESS SUMMARY COLOR SUCCESS

Determines the *Term::ANSIColor* for the summary in case it is successful. This color defaults to 'green'.

HARNESS_SUMMARY_COLOR_FAIL

Determines the *Term::ANSIColor* for the failure in case it is successful. This color defaults to 'red'.

Taint Mode

Normally when a Perl program is run in taint mode the contents of the PERL5LIB environment variable do not appear in @INC.

Because PERL5LIB is often used during testing to add build directories to @INC Test::Harness passes the names of any directories found in PERL5LIB as -I switches. The net effect of this is that PERL5LIB is honoured even in taint mode.

SEE ALSO

TAP::Harness

BUGS

Please report any bugs or feature requests to bug-test-harness at rt.cpan.org, or through the web interface at http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-Harness. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

AUTHORS

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Test::Harness 2.64 (maintained by Andy Lester and on which this module is based) has this attribution:

Either Tim Bunce or Andreas Koenig, we don't know. What we know for sure is, that it was inspired by Larry Wall's F<TEST> script that came with perl distributions for ages. Numerous anonymous contributors exist. Andreas Koenig held the torch for many years, and then Michael G Schwern.

LICENCE AND COPYRIGHT

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