NAME

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

VERSION

Version 3.35

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 `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
max             Number of individual tests ran
ok              Number of individual tests passed
sub_skipped     Number of individual tests skipped
todo            Number of individual todo tests

files           Number of test files ran
good            Number of test files passed
bad             Number of test files failed
tests           Number of test files originally given
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.

`c`

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

Andy Armstrong `<andy@hexten.net>`

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.
```

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