

 This is a nightly-only experimental API. (test)

Support code for rustc's built in unit-test and micro-benchmarking framework.

Almost all user code will only be interested in `Bencher` and `black_box`. All other interactions (such as writing tests and benchmarks themselves) should be done via the `#[test]` and `#[bench]` attributes.

See the [Testing Chapter](#) of the book for more details.

Re-exports

```
pub use self::bench::Bencher; Experimental
pub use self::bench::black_box; Experimental
pub use self::ColorConfig::*; Experimental
pub use self::types::TestName::*; Experimental
pub use NamePadding::*; Experimental
pub use TestFn::*; Experimental
pub use TestName::*; Experimental
```

Modules

<code>bench</code> Experimental	Benchmarking module.
<code>stats</code> Experimental	
<code>test</code> Experimental	

Structs

<code>Options</code> Experimental	Options for the test run defined by the caller (instead of CLI arguments). In case we want to add other options as well, just add them in this struct.
<code>TestDesc</code> Experimental	
<code>TestDescAndFn</code> Experimental	
<code>TestId</code> Experimental	
<code>TestOpts</code> Experimental	

Enums

ColorConfig Experimental	Whether should console output be colored or not
NamePadding Experimental	
OutputFormat Experimental	Format of the test results output
RunIgnored Experimental	Whether ignored test should be run or not
ShouldPanic Experimental	Whether test is expected to panic or not
TestFn Experimental	
TestName Experimental	
TestType Experimental	Type of the test according to the Rust book conventions.

Functions

assert_test_result Experimental	Invoked when unit tests terminate. Returns <code>Result::Err</code> if the test is considered a failure. By default, invokes <code>report()</code> and checks for a <code>0</code> result.
convert_benchmarks_to_tests Experimental	
filter_tests Experimental	
run_test Experimental	
run_tests Experimental	
run_tests_console Experimental	A simple console test runner. Runs provided tests reporting process and results to the stdout.
test_main Experimental	
test_main_static Experimental	A variant optimized for invocation with a static test vector. This will panic (intentionally) when fed any dynamic tests.
test_main_static_abort Experimental	A variant optimized for invocation with a static test vector. This will panic (intentionally) when fed any dynamic tests.