`report-time`

The tracking issue for this feature is: [#64888](#)

The `report-time` feature adds a possibility to report execution time of the tests generated via `libtest`.

This is unstable feature, so you have to provide `-Zunstable-options` to get this feature working.

Sample usage command:

```
./test_executable -Zunstable-options --report-time
```

Available options:

```
--report-time
                Show execution time of each test.
                Threshold values for colorized output can be
                configured via
                `RUST_TEST_TIME_UNIT`, `RUST_TEST_TIME_INTEGRATION`
                and
                `RUST_TEST_TIME_DOCTEST` environment variables.
                Expected format of environment variable is
                `VARIABLE=WARN_TIME,CRITICAL_TIME`.
                Not available for --format=terse
--ensure-time
                Treat excess of the test execution time limit as
                error.
                Threshold values for this option can be configured via
                `RUST_TEST_TIME_UNIT`, `RUST_TEST_TIME_INTEGRATION`
                and
                `RUST_TEST_TIME_DOCTEST` environment variables.
                Expected format of environment variable is
                `VARIABLE=WARN_TIME,CRITICAL_TIME`.
                `CRITICAL_TIME` here means the limit that should not be
                exceeded by test.
```

Example of the environment variable format:

```
RUST_TEST_TIME_UNIT=100,200
```

where 100 stands for warn time, and 200 stands for critical time.

Examples

```
cargo test --tests -- -Zunstable-options --report-time
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running target/debug/deps/example-27fb188025bec02c

running 3 tests
```

```
test tests::unit_test_quick ... ok <0.000s>
test tests::unit_test_warn ... ok <0.055s>
test tests::unit_test_critical ... ok <0.110s>


test result: ok. 3 passed; 0 failed; 0 ignored; 0 measured; 0 filtered out


     Running target/debug/deps/tests-cedb06f6526d15d9

running 3 tests
test unit_test_quick ... ok <0.000s>
test unit_test_warn ... ok <0.550s>
test unit_test_critical ... ok <1.100s>


test result: ok. 3 passed; 0 failed; 0 ignored; 0 measured; 0 filtered out
```