


TBD Testing Migration


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- Jest

- Easy migration. Migrate in one CLI command:


-  **Migrating to Jest · Jest**
If you'd like to try out Jest with an existing codebase, there are a number of ways to convert...
<https://jestjs.io/docs/migration-guide>

- Faster than Vitest. Can be bundled with esbuild for super fast performance. Outperforms tsc.

-  **Vitest runs tests 3x slower than Jest with threads: true (default) setting #579**
<https://github.com/vitest-dev/vitest/issues/579>

-  **Vitest is not ready to replace Jest (and may never be)**
I recently had an opportunity to try to improve the build-times for some client software. Afte...
Publisher Medium Author Brett Uglow Published 1/2/2023

- Even faster than bare TSC when using esbuild transformer

-  **Speed up TypeScript with Jest | miyauci.me**
Learn how to speed up your tests with Jest. Introducing esbuild or swc as transformers...
Author Tomoki Miyauchi

- Similar to what we already have (mocha/chai)
- Popular. Huge network of tools, plugins, etc.
- Familiar. People are used to working with it.
- Option of using `jsdom` (or newer `happydom`) rather than relying on real browser
- Parallel execution works well on CI from experience
- Compatible with react native
- Compatible with future `bun test`
- Native ESM support is coming

- bun

- high performance (supposedly)
- non standard
- too early

- Web Test Runner

- “web native” but requires both esbuild AND rollup. very weird half esbuild half rollup config. not intuitive despite hoping to be.
- most uncommon

- Vitest

- same exact problems as web test runner. does not support esbuild's bundling API. only single file transforms. this is low performance.
- If you're working with heavy libraries and barrel files don't use Vitest, it's slow