js_fatigue_bunjs

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js_fatigue

Short introductions of techs as a side activity of the Frontend Guild.

What is Bun

A new Javascript runtime based on JavascriptCore (webkit) engine.

The runtime itself is written in Zig ("Its like Rust to the poor" said Cfir.T)

It's all about speed (it's fast!)

https://github.com/oven-sh/bun

Creator: Jarred-Sumner

- A package manager (bun run / bunx)

- A bundler

- Has built in support in typescript

- Has built test runner

- Has built in SQLite DB integrated

Oven raised $7m in founding

Bun is a fast all-in-one JavaScript runtime

Bundle, transpile, install, and run JavaScript & TypeScript projects — all in Bun. Bun is a new JavaScript runtime with a native bundler, transpiler, task runner, and npm client built-in.

Install Bun v0.5.1 (beta)

```
$ curl -fsSL https://bun.sh/install | bash
```
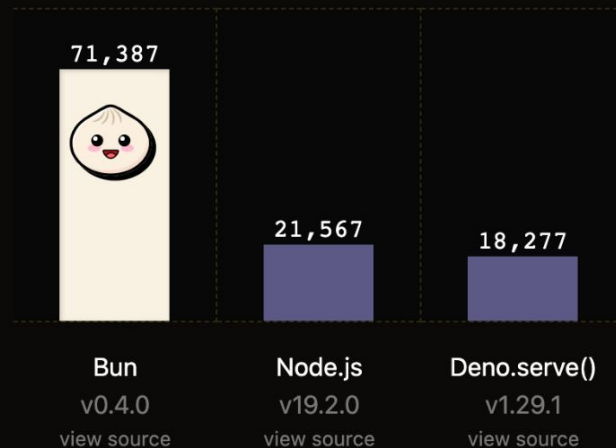
Supported on macOS, Linux, & WSL

View source

Bun.serve   WebSocket   bun:sqlite

Server-side rendering React

HTTP requests per second (Linux x64)

71,387

21,567

18,277

Bun
v0.4.0
view source

Node.js
v19.2.0
view source

Deno.serve()
v1.29.1
view source

It claimed to be 3x time faster than nodejs / deno

A package installation is 20x faster

It's still in beta

I use it as a package manager for side project and as a replacement to npx.

You can run gists with npx
npx gist:<gist-id>/<file-name>
I couldn't do that with bun yet :/

bun.lockb is bun's binary lockfile - loads and parsed fast.

How to port your ts project to bun:

- Init new project: `bun init`

- Copy your dependencies into the new package.json

- Run: `bun install`

Use with bun create

```
/Users/lironh_1/dev-liron/js_fatigue_bunjs) bun create
Welcome to bun! Create a new project by pasting any of the following:

  bun create bun-bakery ./bun-bakery-app

  bun create discord-interactions ./discord-interactions-app

  bun create elysia ./elysia-app

  bun create hono ./hono-app

  bun create kingworld ./kingworld-app

  bun create next ./next-app

  bun create react ./react-app

  bun create svelte-kit ./svelte-kit-app

#You can also paste a GitHub repository:

  bun create ahfarmer/calculator calc
```

Thank You!