# Reducing Build Times

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# Overview

1. The problem

2. Changes shipped

# Where the time goes

- Cold CI builds take 11 minutes on average
- Most of it is dependency installation, not compilation
- Cache hit rate has been falling for three months

# Before and after

| Stage | Before | After |
|---|---|---|
| Install | 6.5 min | 1.2 min |
| Build | 3.1 min | 2.4 min |
| Test | 1.4 min | 1.1 min |

# What made the difference

**Caching**

- Content-addressed lockfile cache
- Shared base layer across jobs

**Parallelism**

- Split test suite across 4 runners
- Removed a serial migration step

# Questions?