

Advanced ccache

What is it?

ccache saves compiler output in order to reuse for subsequent builds

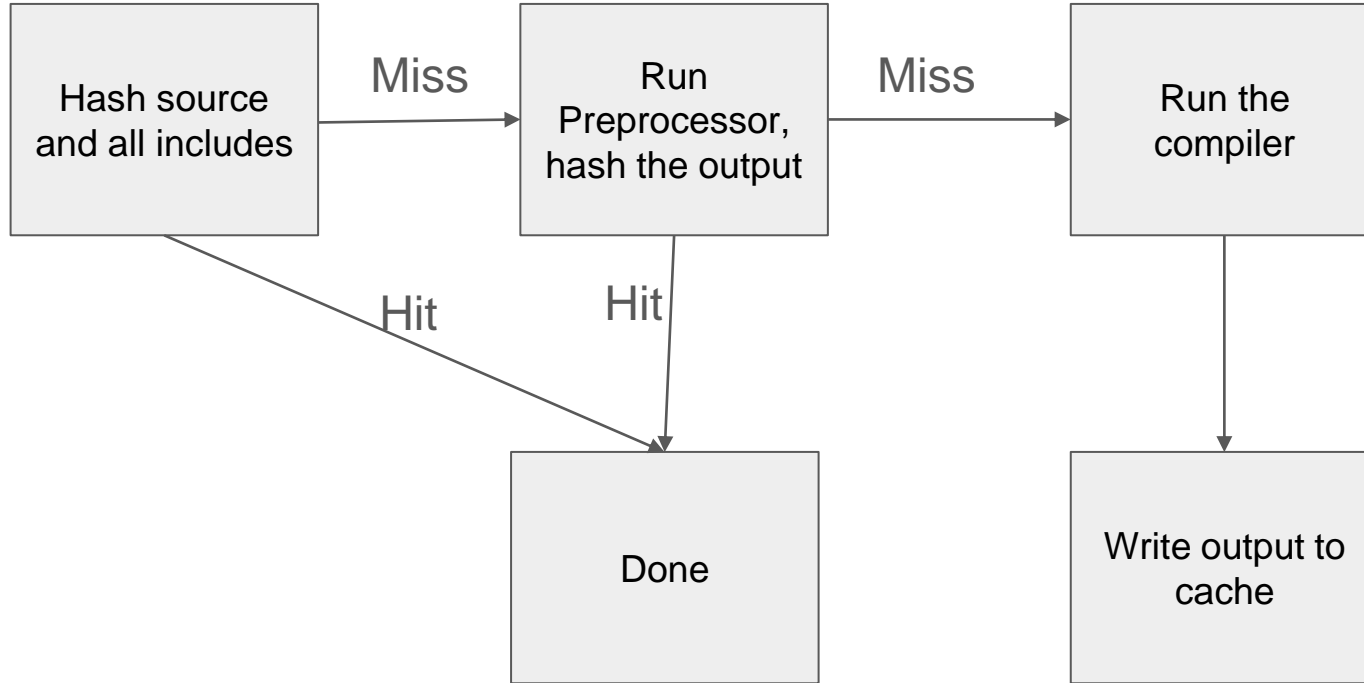
How do I use it?

Install it using your favorite package manager.

If needed update path (depends on distro)

```
$ export PATH="/usr/lib/ccache/bin:$PATH"
```

How does it work?



Demo

Cached

```
[joel@archplex linux]$ █
```

Uncached

```
[joel@archplex linux]$ █
```

What advanced features can I take advantage of?

1. Compression using ZSTD, added in 4.0 (2020)
2. Remote caching, added in 4.4 (2021)

Remote Storage

```
export TOKEN=`...`
```

```
export CCACHE_REMOTE_STORAGE=http://example.com/cache|bearer-token=$TOKEN
```

Sharing the cache between developers

If the hash matches we know the output will be the same

```
export CCACHE_BASEDIR=/home/joel/linux
```

```
export CCACHE_REMOTE_STORAGE=...
```

Build on multiple dev machines, compare debug output files

```
export CCACHE_DEBUG=1
```

Common issues: LANG, generated headers, __FILE__