

## swift-inspect

swift-inspect is a debugging tool which allows you to inspect a live Swift process to gain insight into the runtime interactions of the application.

swift-inspect uses the reflection APIs to introspect the live process. It relies on the swift remote mirror library to remotely reconstruct data types.

### Building

swift-inspect can be built using swift-package-manager.

**Windows** In order to build on Windows, some additional parameters must be passed to the build tool to locate the necessary libraries.

```
swift build -Xcc -I%DEVELOPER_DIR%\Toolchains\unknown-Asserts-development.xctoolchain\usr\in
```

### Using

The following inspection operations are available currently.

#### All Platforms

**dump-arrays** <name-or-pid> Print information about array objects in the target

**dump-cache-nodes** <name-or-pid> Print the metadata cache nodes.

**dump-conformance-cache** <name-or-pid> Print the content of the protocol conformance cache.

**dump-generic-metadata** <name-or-pid> [-backtrace] [-backtrace-long]  
Print generic metadata allocations.

**dump-raw-metadata** <name-or-pid> [-backtrace] [-backtrace-long]  
Print metadata allocations.

#### Darwin Only

**dump-concurrency** <name-or-pid> Print information about tasks, actors, and threads under Concurrency.