

# How to build AsmTools

## AsmTools Build Instructions

This page describes how to build the AsmTools binary. Some notes before you get started:

- In order to contribute code to the project you must have a contributor role. See OpenJDK Governance for information about the different community roles.
- For a description of how the AsmTools repository is organized, read AsmTools Repository Structure.
- The AsmTools Developer's Guide describes how the source code is organized and provides important information for developers who want to modify the code.
- The AsmTools Source Code Description describes how the AsmTools source code is organized.

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### Requirements

The AsmTools build requires the technologies listed in the following table.

Technology	Where to Get It
Ant version 1.8 or later	<a href="http://ant.apache.org/">http://ant.apache.org/</a>
JDK version 8.0	<a href="http://www.oracle.com/technetwork/java/javase/downloads/index.html">http://www.oracle.com/technetwork/java/javase/downloads/index.html</a>

The Jcov tool repository is located on OpenJDK servers, in the CodeTools Project. It is stored in mercurial vcs, and can be uploaded from mercurial via the following command:

```
% hg clone http://hg.openjdk.java.net/code-tools/asmtools
```

### Configure and Run the Build

The following steps describe how to build AsmTools. These instructions assume that your AsmTools local working copy is named `asmtools`.

1. Set up and configure the JDK 8.0.
  - Download and install the JDKs.
  - Set the environment variable `JAVA_HOME` to point to the JDK 8.0.
2. Set up and configure the Ant software.
  - Download and install the Ant software.
  - Set your execution path so that it contains the `ant` command. For example: `ANT-dist-path/bin/ant`
3. Make `asmtools/build` the current directory.
4. Execute the `ant` command.

The output of the build (`asmtools-<VERSION>-build` directory) contains the following files and subdirectories:

- `dist/asmtools-<VERSION>.zip` -- AsmTools distribution file. Contains examples, javadocs, `asmtools.jar` and basic documentation files.
- `release/` -- Unpacked AsmTools distribution.
- `binaries/` -- Snapshot of the built product and intermediate source and binaries which were used. These include unpacked class files, sources, etc.
- `javadoc/` -- Generated copy of the JavaDoc for public API.

### Additional Build Targets

The following additional targets are available. You might wish to identify these targets to your IDE (for example, NetBeans).

Build Target	Description
<code>build</code> (default)	Builds all binaries, doc and distributions.
<code>clean</code>	Removes the entire build directory.
<code>clean-build</code>	Runs the clean target, then the build target (convenience target)
<code>help</code>	Prints the usage message.

bin	Produces binaries.
devbuild	Produces binaries and javadocs.
javadoc	Produces javadocs.
test	Performs sanity test. (no content presently)