

Source Layout (AsmTools)

AsmTools Source Code Description

The AsmTools source code is divided into areas based on their responsibility or whether they are general versus or specific. Generally, the package division is based on a specific tool being implemented, along with various support packages.

Packages

Located in the `src/` directory under the root of the Mercurial project tree:

`org.openjdk.asmtools`

This is the top-level package of asmtools. The 'Main' dispatch class is located here.

`org.openjdk.asmtools.jasm`

`org.openjdk.asmtools.jdis`

These sub-packages implement the JASM assembler and disassembler, respectively. Each of these packages contains a 'Main' dispatch class, properties, and support classes.

`asmtools.jasm` contains a hierarchy of parser classes, responsible for parsing the JASM syntax of a `.jasm` file, and populating IR support classes representing the various parts of a Java `.class`. The IR classes are responsible for translating this structure into the final binary representation of a `.class` file.

`asmtools.jdis` also contain IR support classes that are responsible for dispatching the byte streams of a `.class` file amongst themselves to populate class data. These IR classes are also directly responsible for the generation of JASM text through dispatched `printXXX()` methods

`org.openjdk.asmtools.jcod`

`org.openjdk.asmtools.jdec`

`org.openjdk.asmtools.jcdec`

These sub-packages implement the JCOD assembler and disassemblers, respectively. Each of these packages contains a 'Main' dispatch class, properties, and support classes.

`asmtools.jcod` implements a simple scanner and parser to translate JCOD structures into a `.class` file byte stream.

`asmtools.jdec` and `asmtools.jcdec` implement simple scanners and parsers to translate `.class` file byte streams into JCOD syntax. `asmtools.jcdec` is a superset of `jdec`, adding additional parsing for `.cap` binary files.

`org.openjdk.asmtools.asmutils`

Contains support classes available to all of the assembler tools. This is support for Hex translation and other utilities.

`org.openjdk.asmtools.util`

This package contains utilities used for the production of AsmTools. This includes support for bundle versioning, and internationalization.