

# Main

## Goals

- Pass all appropriate certification tests for Java SE 7
- Include a complete, native Cocoa-based UI Toolkit
  - DONE.
- Provide excellent performance
- Integrate into main-line OpenJDK 8
  - DONE. OS X is now 'just another platform' in OpenJDK 8

## Minimum requirements to run

- An Intel Mac
- RAM: 2GB
- [Mac OS X 10.7.3](#)

Note that only Mac OS X 10.7.3 and higher will be an Oracle-supported platform. It should continue to run on 10.6.8+ but that is not guaranteed. As of 1-Jan-2012 there are no plans to introduce 10.7-only APIs into the codebase.

## Prerequisites to build

- Hardware: Any 64-bit capable Intel Mac
  - RAM: 4GB
- Minimum OS version: [Mac OS X 10.7.3 Lion](#)
- [Xcode Command Line Tools](#)
- Mercurial: <http://mercurial.berkwood.com/>
- X11
  - On OS X 10.8 Mountain Lion: [XQuartz](#)
  - On OS X 10.7 Lion: Run /Applications/Utilities/X11.app to install as an additional download

JTReg is not required to build but useful for running regression tests

- Jtreg: <http://openjdk.java.net/jtreg/>

## 1. Get the code

```
hg clone http://hg.openjdk.java.net/jdk8/jdk8
cd jdk8
chmod 755 get_source.sh
./get_source.sh
```

## 2. Build

### Java 7 or higher installed

```
CPATH="/usr/X11/include" LANG=C make ALLOW_DOWNLOADS=true ALT_BOOTDIR="/usr/libexec/java_home -v 1.7"
HOTSPOT_BUILD_JOBS=`sysctl -n hw.ncpu`
```

### Using Apple's Java 6

```
CPATH="/usr/X11/include" LANG=C make ALLOW_DOWNLOADS=true SA_APPLE_BOOT_JAVA=true ALWAYS_PASS_TEST_GAMMA=true
ALT_BOOTDIR="/usr/libexec/java_home -v 1.6" HOTSPOT_BUILD_JOBS=`sysctl -n hw.ncpu`
```

\* Steps for [incremental building](#)

## 3. Smoke Test

```
build/macosx-universal/j2sdk-image/bin/java -version
```

## 4. Install

```
mkdir -p ~/Library/Java/JavaVirtualMachines
cp -R build/macosx-universal/j2sdk-bundle/jdk1.8.0.jdk ~/Library/Java/JavaVirtualMachines
```

## 5. Run

```
export JAVA_HOME="/usr/libexec/java_home --version 1.7+"
$JAVA_HOME/bin/java -version
```

If you have the [Java Developer Package](#) installed:

```
$JAVA_HOME/bin/java -jar /Library/Java/Demos/JFC/SwingSet2/SwingSet2.jar
```

## 6. Test

Download [jtest](#) to run the tests in the `/jdk/test` directory.

## Bugs!

File new bugs at <http://bugreport.sun.com/bugreport/>. Please [check out the bug reporting guidelines](#) if you haven't filed against the project before.

## Questions?

Please join the [macosx-port-dev mailing list](#) and ask!

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