

Cross building for iOS

Cross building for iOS

Before trying to cross build for iOS we strongly recommend that you succeed on building OpenJFX for OS X first.

Download a sample application [here](#)

The sample application used here is a simplified version from `/rt/apps/experiments/DukePad/modules/calculator` (excludes OSGI references and any Java 8 syntax usage).

Besides the Calculator project, the zip file also contains a patch for OpenJFX repository

Install RoboVM

Download RoboVM from <http://download.robovm.org/> and unzip it.

Install RoboVM to `/opt/robovm` directory

Get OpenJFX project, apply the patch and build it

On the same directory where Calculator.zip was unzipped:

```
$ mkdir openjfx
$ cd openjfx
$ hg clone http://hg.openjdk.java.net/openjfx/8/graphics/rt
$ cd rt
$ patch -p1 < ../../openjfx.diff
$ gradle -PCOMPILER_TARGETS=ios -PUSE_LIPO=true
```

Note: At the time this wiki was written the iOS build expects the SDK version 7.0 to be available on the system. If you have different version that needs to be specified. For example:

```
$ gradle -PCOMPILER_TARGETS=ios -PUSE_LIPO=true -PIOS_VERSION=6.1
```

Get robovm-jfx78-compatible project and build it

On the same directory where Calculator.zip was unzipped:

```
$ git clone https://github.com/robovm/robovm-jfx78-compatible
$ cd robovm-jfx78-compatible
$ mvn install
```

Build the application code

On the same directory where Calculator.zip was unzipped:

```
$ cd Calculator
$ ant
```

This will compile the Java code to byte code, then it will use RoboVM to compile the byte code to native code and finally it will run the application using iPad simulator.

References:

<http://blog.software4java.com/?p=41>

<http://www.robovm.org/docs.html>

https://blogs.oracle.com/jfxprg/entry/ipack_the_ios_application_packager