;DebuggingFrameworks.rtfd;;¬   Next Section   ;AddingPublicAPI.rtfd;;¬   Previous Section

Verifyingcompatibilitybetweentwolibraries;¬Verifying compatibility between two libraries

1 **Start up the Terminal application.**

2 **Perform the cmpdylib command.**

cmpdylib is a verification tool that you can use to make sure you've made the right choices about version numbers. The syntax is:

cmpdylib *oldLibName newLibName*

If *oldLibName* and *newLibName* are compatible, this command returns nothing. If they aren't compatible, it tells you why.

cmpdylibWindow.eps ¬

cmpdylib considers two libraries compatible if:

SquareBullet.eps ¬They are built for the same architectures.
SquareBullet.eps ¬*oldLibName* defines a subset of the symbols that *newLibName* does.
SquareBullet.eps ¬*newLibName* defines symbols not in *oldLibName* and has a different compatibility version number.

The two libraries are incompatible if:

SquareBullet.eps ¬They are built for different architectures.
SquareBullet.eps ¬*oldLibName* defines symbols that aren't in *newLibName*.

SquareBullet.eps ¬*newLibName* defines symbols not in *oldLibName* and has the same compatibility version number.

Currently, **cmpdylib** only checks C-level API and does not distinguish between public and private API. For example if you add a method, **cmpdylib** won't detect the change. Also if you change a private class, **cmpdylib** will report the change as an incompatibility.