

APDK and DAPDK Build Environments

Prism and Duette APDK

Both the Prism APDK (APDK) and Duette APDK (DAPDK) is checked into the CherryBlossom repository (/cvsroot/CherryBlossom). The Prism and Duette modules are located here:

- Prism APDK Source: APDK/Sources/firmware/OS/uClinux
- Duette APDK Source: DAPDK/Firmware_Source/Software/firmware/uClinux

Toolchain

The Prism and Duette development kits use different toolchain versions. The default install directories for these toolchains are listed below.

- Prism APDK: /opt/apdk_sdk_1.2.0.0
- Duette APDK: /opt/uclinux_tools_1.6.0.0

To build the Prism APDK toolchain, run the make-tools.sh script. This script is located in the APDK/Sources/tools directory.

To build the Duette APDK toolchain run the make-tools.sh script. This script is located in DAPDK/ToolChain/tools directory.

ROCKBASE

The \$ROCKBASE environment variable points to the location of the uClinux source for both the Prism and Duette APDK. You must set this to the location of the uClinux directory you are using.

Building an image

For the Prism APDK go to the \$ROCKBASE directory and type:

- make image
- make image BUILD="develop"
- make image BUILD="release"

For the Duette APDK go to \$ROCKBASE/./apfw/ directory and type (NOTE: that the apfw directory is one level higher than ROCKBASE):

- make image
- make image BUILD="develop"
- make image BUILD="release"

Adding Applications

Prism APDK

Duette APDK

Duette applications are typed as either GPL or Non-GPL applications. GPL applications are restricted by a GPL license, while Non-GPL applications are not. GPL applications are stored in the directory \$ROCKBASE/apps-gpl and Non-GPL applications are stored in the directory \$ROCKBASE/apps-non-gpl. Adding applications is a two step process .

1. Add the application to the Duette APDK configuration file (\$ROCKBASE/config.in) by adding a line like this:

```
bool 'Include <application>' CONFIG_APPS_<TYPE>_<appdir>
```

Where <application> is the name of the application you want to add. <TYPE> is either “GPL” or “NON_GPL”. And appdir is the directory that contains the application source code.

For example, to add an non-GLP application named test whose source code is located a directory called “test” add a line like this

```
bool 'Include test' CONFIG_APPS_NON_GPL_test
```

2. Add the source for the application into a subdirectory of either \$ROCKBASE/apps-gpl or \$ROCKBASE/apps_non_gpl. The source directory must contain a Makefile

Summary

- **CherryBlossom repository:** /cvsroot/CherryBlossom
- **APDK tool chain:** /opt/ apdk_sdk_1.2.0.0
- **DAPDK tool chain:** /opt/uclinux_tools_1.6.0.0
- **Set the environment variable ROCKBASE to the location of the uClinux directory.**