NeonSeven Build System Environment for BP30

What we are going to do

- What you need
- Compiling
- Add/Remove Files from Compiling
- Compiling Defines
- Compiling Includes

What you need

- If buildtools VOB is not available
 - Tasking C166 compiler v7.5 release 5
 NOTE: the cp166l.lib library of v7.5r5 has a problem, a modified one will be used (it will be provided by N7).
 - ActivePerl v5.6.1 (or subsequent)
- Cygwin v2.05 (or subsequent)
- Microsoft Visual C++ v7.0
- ClearCase Environment

■ The command line for compiling is: make –r.

This will start a build with settings stored in the project.cfg.default file: stored values are project specific.

Once the build process has completed, the executable file \${PROJECTNAME}.hex can be found in the folder systembuild/\${TARGETSYSTEM}/\${PLATFORM}. Also the abs file \${PROJECTNAME}.abs and the map file \${PROJECTNAME}.map are present here

USEFUL COMMANDS

- make –r PLATFORM=BP30_GLOBE6 to get a complete build for GLOBE6;
- make –r TARGETSYSTEM=ALIHOST to get a complete build for host;
- make –r BUILDMODE=DEBUG to get a build with debugging information;
- make –r INT_STAGE=STT to get a build with only stack;
- make –r -k
 build doesn't stop if errors occur;
- make –r ADD_SYSTEM_DEFS=RAINBOW_DISPLAY define "RAINBOW_DISPLAY" added to build

Add/Remove Files to/from Compiling

You have to add/remove the files to/from makefile that you want include them to (which aleready includes them in) to the variable \${BUILD_LIB}_FILES, e.g.

Valid for every module (stack,drivers, Apoxi, RefMMI modules)

Compiling Defines

- Different types:
 - SYSTEM_DEFS, visible to every file;
 - CC_DEFS, visible to .c files;
 - CPP_DEFS, visible to .cpp files;
 - ASM_DEFS, visible to .asm files;
- You MUST choose the "right place" (makefile) where add/remove defines to/from according to the following rules.

- Top level "makeoptions.mk" (path:system-build/make) for global defines;
- platform "makeoptions.mk" (EGOLDLITE) for BP30 platform specific defines;
- Cbe_apoxi_makeoptions.mk (path: Inz_apoxi/Apoxi) for APOXI_DEFS defines;
- Cbe_mmi_makeoptions.mk (path: lnz_mmi/Mmi) for REFMMI_DEFS defines;
- Cbe_mmi_plugins_makeoptions.mk (path: lnz_mmi/MmiPlugins) for MMIPLUGIN_DEFS defines;
- Cbe_app_makeoptions.mk (path: Inz_apps_int/Applications) for APP_DEFS defines;

Compiling Includes

In order to add an include path to a module, path and compiler include path settings part in module makefile must be modificated. Follows an example:

If you want to include path "dwddrv/AUD/src" in some module, you have to add the following line to the include path part

\${BUILD_LIB}_INC += \
.....
\${GLOBALPATH}/dwddrv/AUD/src \
.....

References:

- NeonSeven BP30 Build System Environment
- NeonSeven ClearCase Environment
- Comneon CBE Common Build Environment v1.3

Thank you for your attention!