PART-SPECIFIC SOURCE COMPARTMENTALISATION

The sources for various parts are compartmentalised at two different levels:

(1) Processor level

The "processor level" is a CPU core plus the other on-silicon peripherals.

Processor-specific header files are divided among directories in a similar way to the CPU level:

(*) include/asm-mn10300/proc-mn103e010/

Support for the AM33v2 CPU core.

The appropriate processor is selected by a CONFIG_MN10300_PROC_YYYY option from the "Processor support" choice menu in the arch/mn10300/Kconfig file.

(2) Unit level

The "unit level" is a processor plus all the external peripherals controlled by that processor.

Unit-specific header files are divided among directories in a similar way to the CPU level; not only that, but specific sources may also be segregated into separate directories under the arch directory:

(*) include/asm-mn10300/unit-asb2303/
(*) arch/mn10300/unit-asb2303/

Support for the ASB2303 board with an ASB2308 daughter board.

(*) include/asm-mn10300/unit-asb2305/
(*) arch/mn10300/unit-asb2305/

Support for the ASB2305 board.

The appropriate processor is selected by a CONFIG_MN10300_UNIT_ZZZZ option from the "Unit type" choice menu in the arch/mn10300/Kconfig file.

COMPILE TIME

When the kernel is compiled, symbolic links will be made in the asm header file directory for this arch:

include/asm-mn10300/proc => include/asm-mn10300/proc-YYYY/
include/asm-mn10300/unit => include/asm-mn10300/unit-ZZZZ/

So that the header files contained in those directories can be accessed without

lots of #ifdef-age.

The appropriate arch/mn10300/unit-ZZZZ directory will also be entered by the compilation process; all other unit-specific directories will be ignored.