

Encoder Tables in C Applications

makefile

Add the “-DDONT_INCLUDE_MIOS_ENC_TABLE” define:

```
# pass parameters to MIOS wrapper
MIOS_WRAPPER_DEFINES = -DSTACK_HEAD=0x37f -DSTACK_IRQ_HEAD=0x33f \
                        -DDONT_INCLUDE_MIOS_ENC_TABLE
```

main.c

Add your table as such:

```
////////////////////////////////////
/
// Application specific encoder table
// the default (dummy) table has been disabled via -
DDONT_INCLUDE_MIOS_ENC_TABLE
////////////////////////////////////
/
MIOS_ENC_TABLE {
    // sr pin mode
    MIOS_ENC_ENTRY(1, , MIOS_ENC_MODE_DETENTED2),
    MIOS_ENC_EOT
};
```

Reference

Taken from mios wrapper

```
;; ---[ configuration table for rotary encoders ]---
#ifndef DONT_INCLUDE_MIOS_ENC_TABLE
;; dummy table located in $MIOS_PATH/include/asm
;; If the application should use ENC entries,
;; just add "-DDONT_INCLUDE_MIOS_ENC_TABLE" to MIOS_WRAPPER_DEFINES
;; and build the table within the C program with:
;;
;; MIOS_ENC_TABLE {
;;     // sr pin mode
;;     MIOS_ENC_ENTRY(1, 0, MIOS_ENC_MODE_DETENTED), // VPot #1
;;     MIOS_ENC_ENTRY(1, 2, MIOS_ENC_MODE_DETENTED), // VPot #2
;;     MIOS_ENC_ENTRY(1, 4, MIOS_ENC_MODE_DETENTED), // VPot #3
;;     MIOS_ENC_EOT
;; }
```

```
;; };  
;;  
;; The MIOS_MT_* macros are defined in $MIOS_PATH/include/c/cmios.h  
#include <mios_enc_table.inc>  
#endif
```

Check out the clockbox app for a real world example.

Enjoy!

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