



```

global  _sm_col

;; import lables
extern  _SM_NotifyToggle

; =====

accessram    udata        ; (no access ram required, these variables can
be located anywhere)

_sm_button_column  res    1    ; exported to C, therefore an "_" has been
added
_sm_button_row     res    1
_sm_button_value   res    1
_sm_col            res    1

...

SM_PrepareCol
    ;; select next DOUT register

    ;; (current column + 1) & 0x07
    SET_BSR    sm_selected_column
    incf      sm_selected_column, W, BANKED    ; (* see note below)
    andlw    0x07
    ;_sm_col is used by LM_SetRow()
    movwf    _sm_col
    call     MIOS_HLP_GetBitANDMask    ; (inverted 1 of 8 code)

    ...

```

and finally in sm\_simple.h:

```

...
extern unsigned char sm_button_value;
extern unsigned char sm_col;
...

```

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