MIDIBox64E is a midi controlled based on MBHP/MIOS

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DIN register allocation

Question from Dan aka Digineural:

I understand that the following is setting shift registers 5-8 to be used for encoders 1-16.

MIOS_ENC_PIN_TABLE

```
;; encoders 1-16
;;         SR  Pin  Mode
ENC_ENTRY  5,  0,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 1
ENC_ENTRY  5,  2,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 2
ENC_ENTRY  5,  4,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 3
ENC_ENTRY  5,  6,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 4
ENC_ENTRY  6,  0,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 5
ENC_ENTRY  6,  2,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 6
ENC_ENTRY  6,  4,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 7
ENC_ENTRY  6,  6,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 8
ENC_ENTRY  7,  0,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 9
ENC_ENTRY  7,  2,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 10
ENC_ENTRY  7,  4,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 11
ENC_ENTRY  7,  6,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 12
ENC_ENTRY  8,  0,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 13
ENC_ENTRY  8,  2,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 14
ENC_ENTRY  8,  4,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 15
ENC_ENTRY  8,  6,  MIOS_ENC_MODE_NON_DETENTED   ; V-Pot 16
```

However I'm not quite sure what is being defined here

#define DEFAULT_DIN_SR_PIN_01_08 2
#define DEFAULT_DIN_SR_PIN_09_16 3
#define DEFAULT_DIN_SR_PIN_17_24 1
#define DEFAULT_DIN_SR_PIN_25_32 4
#define DEFAULT_DIN_SR_PIN_33_40 8
#define DEFAULT_DIN_SR_PIN_41_48 10
#define DEFAULT_DIN_SR_PIN_49_56 11
#define DEFAULT_DIN_SR_PIN_57_64 12

Answer: MB64E supports up to 64 button functions, and they are assiged to 8 shift registers. With the DEFAULT_DIN_SR_* settings you can change the mapping. This is important, if the appr. shift registers are already allocated by encoders (defined in mios_tables.inc) - if this is the case, change the DEFAULT_DIN_SR_* values to unused shift register numbers.

Misc Forum Threads

Be sure to make a search of the forum;
these are some useful infos from old threads:

- http://www.midibox.org/forum/index.php?topic=6395.0 Testing AIN Board
- http://www.midibox.org/forum/index.php?topic=7149.0 Mapping Buttons to Midi Ch
- http://www.midibox.org/forum/index.php?topic=7104.0 Enabling Pots
- http://www.midibox.org/forum/index.php?topic=6938.0 MB64E Encoders

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