

### !!! MIOS DIN/DOUT Pin Numbers

Sometimes the pin numbers of special DINs or DOUTs can be specified in the main.asm or setup\_\*.asm file of a MIOS application.

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Examples: #define DEFAULT_MIDI_RX_LED 0x40 ; DOUT SR#9, pin D0 #define
DEFAULT_MIDI_TX_LED 0x41 ; DOUT SR#9, pin D1 or #define DEFAULT_DIN_MENU_EXEC
7 ; menu exec button assigned to DIN pin #7 #define DEFAULT_DIN_MENU_SNAPSHOT
6 ; menu snapshot button assigned to DIN pin #4 #define
DEFAULT_DIN_MENU_RIGHT 5 ; NOT USED - overlaid by datawheel #define
DEFAULT_DIN_MENU_LEFT 4 ; NOT USED - overlaid by datawheel or;; 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
```

The following table should give you a quick overview over the numbers. Please bear in mind that we are sometimes counting from 0, and sometimes from 1.

Means: sometimes the first pin or shiftregister has number 0, sometimes it has number 1 - thats always an issue, because programmer mostly prefer to count from 0, users want to count from 1 - it's a bit of a mess! Forgive me! 😊

In the meantime I've tried to make the setup more consistent. Shiftregisters are always counted from 1, and pins are always counted from 0

Ok, here the table:

| Shift Register | SR number | Pin Name | Pin Number | Hex number |
|----------------|-----------|----------|------------|------------|
| first          | 1         | D0       | 0          | 0x00       |
| first          | 1         | D1       | 1          | 0x01       |
| first          | 1         | D2       | 2          | 0x02       |
| first          | 1         | D3       | 3          | 0x03       |
| first          | 1         | D4       | 4          | 0x04       |
| first          | 1         | D5       | 5          | 0x05       |
| first          | 1         | D6       | 6          | 0x06       |
| first          | 1         | D7       | 7          | 0x07       |
| second         | 2         | D0       | 8          | 0x08       |
| second         | 2         | D1       | 9          | 0x09       |
| second         | 2         | D2       | 10         | 0x0a       |
| second         | 2         | D3       | 11         | 0x0b       |
| second         | 2         | D4       | 12         | 0x0c       |
| second         | 2         | D5       | 13         | 0x0d       |
| second         | 2         | D6       | 14         | 0x0e       |
| second         | 2         | D7       | 15         | 0x0f       |
| third          | 3         | D0       | 16         | 0x10       |
| third          | 3         | D1       | 17         | 0x11       |
| third          | 3         | D2       | 18         | 0x12       |
| third          | 3         | D3       | 19         | 0x13       |

| <b>Shift Register</b> | <b>SR number</b> | <b>Pin Name</b> | <b>Pin Number</b> | <b>Hex number</b> |
|-----------------------|------------------|-----------------|-------------------|-------------------|
| third                 | 3                | D4              | 20                | 0x14              |
| third                 | 3                | D5              | 21                | 0x15              |
| third                 | 3                | D6              | 22                | 0x16              |
| third                 | 3                | D7              | 23                | 0x17              |
| fourth                | 4                | D0              | 24                | 0x18              |
| fourth                | 4                | D1              | 25                | 0x19              |
| fourth                | 4                | D2              | 26                | 0x1a              |
| fourth                | 4                | D3              | 27                | 0x1b              |
| fourth                | 4                | D4              | 28                | 0x1c              |
| fourth                | 4                | D5              | 29                | 0x1d              |
| fourth                | 4                | D6              | 30                | 0x1e              |
| fourth                | 4                | D7              | 31                | 0x1f              |
| fifth                 | 5                | D0              | 32                | 0x20              |
| fifth                 | 5                | D1              | 33                | 0x21              |
| fifth                 | 5                | D2              | 34                | 0x22              |
| fifth                 | 5                | D3              | 35                | 0x23              |
| fifth                 | 5                | D4              | 36                | 0x24              |
| fifth                 | 5                | D5              | 37                | 0x25              |
| fifth                 | 5                | D6              | 38                | 0x26              |
| fifth                 | 5                | D7              | 39                | 0x27              |
| sixth                 | 6                | D0              | 40                | 0x28              |
| sixth                 | 6                | D1              | 41                | 0x29              |
| sixth                 | 6                | D2              | 42                | 0x2a              |
| sixth                 | 6                | D3              | 43                | 0x2b              |
| sixth                 | 6                | D4              | 44                | 0x2c              |
| sixth                 | 6                | D5              | 45                | 0x2d              |
| sixth                 | 6                | D6              | 46                | 0x2e              |
| sixth                 | 6                | D7              | 47                | 0x2f              |
| seventh               | 7                | D0              | 48                | 0x30              |
| seventh               | 7                | D1              | 49                | 0x31              |
| seventh               | 7                | D2              | 50                | 0x32              |
| seventh               | 7                | D3              | 51                | 0x33              |
| seventh               | 7                | D4              | 52                | 0x34              |
| seventh               | 7                | D5              | 53                | 0x35              |
| seventh               | 7                | D6              | 54                | 0x36              |
| seventh               | 7                | D7              | 55                | 0x37              |
| eighth                | 8                | D0              | 56                | 0x38              |
| eighth                | 8                | D1              | 57                | 0x39              |
| eighth                | 8                | D2              | 58                | 0x3a              |
| eighth                | 8                | D3              | 59                | 0x3b              |
| eighth                | 8                | D4              | 60                | 0x3c              |
| eighth                | 8                | D5              | 61                | 0x3d              |
| eighth                | 8                | D6              | 62                | 0x3e              |
| eighth                | 8                | D7              | 63                | 0x3f              |

| <b>Shift Register</b> | <b>SR number</b> | <b>Pin Name</b> | <b>Pin Number</b> | <b>Hex number</b> |
|-----------------------|------------------|-----------------|-------------------|-------------------|
| ninth                 | 9                | D0              | 64                | 0x40              |
| ninth                 | 9                | D1              | 65                | 0x41              |
| ninth                 | 9                | D2              | 66                | 0x42              |
| ninth                 | 9                | D3              | 67                | 0x43              |
| ninth                 | 9                | D4              | 68                | 0x44              |
| ninth                 | 9                | D5              | 69                | 0x45              |
| ninth                 | 9                | D6              | 70                | 0x46              |
| ninth                 | 9                | D7              | 71                | 0x47              |
| tenth                 | 10               | D0              | 72                | 0x48              |
| tenth                 | 10               | D1              | 73                | 0x49              |
| tenth                 | 10               | D2              | 74                | 0x4a              |
| tenth                 | 10               | D3              | 75                | 0x4b              |
| tenth                 | 10               | D4              | 76                | 0x4c              |
| tenth                 | 10               | D5              | 77                | 0x4d              |
| tenth                 | 10               | D6              | 78                | 0x4e              |
| tenth                 | 10               | D7              | 79                | 0x4f              |
| eleventh              | 11               | D0              | 80                | 0x50              |
| eleventh              | 11               | D1              | 81                | 0x51              |
| eleventh              | 11               | D2              | 82                | 0x52              |
| eleventh              | 11               | D3              | 83                | 0x53              |
| eleventh              | 11               | D4              | 84                | 0x54              |
| eleventh              | 11               | D5              | 85                | 0x55              |
| eleventh              | 11               | D6              | 86                | 0x56              |
| eleventh              | 11               | D7              | 87                | 0x57              |
| twelfth               | 12               | D0              | 88                | 0x58              |
| twelfth               | 12               | D1              | 89                | 0x59              |
| twelfth               | 12               | D2              | 90                | 0x5a              |
| twelfth               | 12               | D3              | 91                | 0x5b              |
| twelfth               | 12               | D4              | 92                | 0x5c              |
| twelfth               | 12               | D5              | 93                | 0x5d              |
| twelfth               | 12               | D6              | 94                | 0x5e              |
| twelfth               | 12               | D7              | 95                | 0x5f              |
| thirteenth            | 13               | D0              | 96                | 0x60              |
| thirteenth            | 13               | D1              | 97                | 0x61              |
| thirteenth            | 13               | D2              | 98                | 0x62              |
| thirteenth            | 13               | D3              | 99                | 0x63              |
| thirteenth            | 13               | D4              | 100               | 0x64              |
| thirteenth            | 13               | D5              | 101               | 0x65              |
| thirteenth            | 13               | D6              | 102               | 0x66              |
| thirteenth            | 13               | D7              | 103               | 0x67              |
| fourteenth            | 14               | D0              | 104               | 0x68              |
| fourteenth            | 14               | D1              | 105               | 0x69              |
| fourteenth            | 14               | D2              | 106               | 0x6a              |
| fourteenth            | 14               | D3              | 107               | 0x6b              |

| Shift Register | SR number | Pin Name | Pin Number | Hex number |
|----------------|-----------|----------|------------|------------|
| fourteenth     | 14        | D4       | 108        | 0x6c       |
| fourteenth     | 14        | D5       | 109        | 0x6d       |
| fourteenth     | 14        | D6       | 110        | 0x6e       |
| fourteenth     | 14        | D7       | 111        | 0x6f       |
| fifteenth      | 15        | D0       | 112        | 0x70       |
| fifteenth      | 15        | D1       | 113        | 0x71       |
| fifteenth      | 15        | D2       | 114        | 0x72       |
| fifteenth      | 15        | D3       | 115        | 0x73       |
| fifteenth      | 15        | D4       | 116        | 0x74       |
| fifteenth      | 15        | D5       | 117        | 0x75       |
| fifteenth      | 15        | D6       | 118        | 0x76       |
| fifteenth      | 15        | D7       | 119        | 0x77       |
| sixteenth      | 16        | D0       | 120        | 0x78       |
| sixteenth      | 16        | D1       | 121        | 0x79       |
| sixteenth      | 16        | D2       | 122        | 0x7a       |
| sixteenth      | 16        | D3       | 123        | 0x7b       |
| sixteenth      | 16        | D4       | 124        | 0x7c       |
| sixteenth      | 16        | D5       | 125        | 0x7d       |
| sixteenth      | 16        | D6       | 126        | 0x7e       |
| sixteenth      | 16        | D7       | 127        | 0x7f       |

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