

4.2 Viewing IIC Bus Line Peripherals Using I2C Tools

Here is a general introduction to the use of i2c-tools:

Installation:

apt-get install libi2c-dev i2c-tools

Detecting devices mounted on the i2c bus:

Use i2cdetect to detect several sets of i2c buses on the system:

i2cdetect -l

Detecting devices mounted on the i2c bus:

Use i2cdetect to detect devices mounted on the i2c-1 bus:

i2cdetect -r -y 1

View the values of all device registers:

Use i2cdump to view the values of all device registers:

i2cdump -f -y 1 0x40

```
No size specified (using byte-data access)
0 1 2 3 4 5 6 7 8 9 a 00: 01 04 e2 e4 e8 e0 00 00 00 00 00
         2 3 4 5 6
                          8 9
                                                   0123456789abcdef
                                  00 00 00
00 00 00
00 00 00
00 00 00
XX XX XX
                                                   .....xxxxxxxxxx
xxxxxxxxxxxxxx
                                  XX
XX
XX
XX
XX
XX
XX
XX
                                                   XXXXXXXXXXXXXXXX
                                                   XXXXXXXXXXXXXXXX
                                                   XXXXXXXXXXXXXXXX
                                                   XXXXXXXXXXXXXXX
                                                   XXXXXXXXXXXXXXXX
                                        XX
                                                   XXXXXXXXXXXXXXXX
               XX
                 XX
                       XX
                          XX
                               XX
                                                   xxxxxxxxx..
```