08\_07 Handout: Compare C Libraries

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Library** | **Install process** | **Root?** | **SPI, I2C** | **Web reference** | **Notes** |
| BCM2835 | Make install | Not Root - /dev/gpiomem  Root - /dev/mem | yes | <http://www.airspayce.com/mikem/bcm2835/> |  |
| wiringpi | Already installed on RPi | /dev/gpiomem | yes | <http://wiringpi.com/> | Deprecated.  <http://wiringpi.com/wiringpi-deprecated/> |
| sysfs | None - part of linux | required |  |  | Deprecated?  Instead.../dev/gpiochip |
| /dev/gpiochip |  |  |  |  | Lacks support |
| pigpio | Make install | Library requires root.  Application does not require root | yes | <http://abyz.me.uk/rpi/pigpio/index.html> |  |

# Install the bcm2835 library

Instructions at <https://www.airspayce.com/mikem/bcm2835/>

download the latest version of the library, say bcm2835-1.xx.tar.gz. You’ll find it at <http://www.airspayce.com/mikem/bcm2835/> …

then:

# replace xx with the version number

tar zxvf bcm2835-1.xx.tar.gz

cd bcm2835-1.xx

./configure

make

sudo make check

sudo make install