

vigati

Moodle UFSC

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ministrati

INE5412-04208A (20151) - Sistemas Operacionais I

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One more option for GPIO (everything on app - bad engineering)

```
//copied from memory_map.h
const unsigned int GPIO_BASE = 0x80000000;
const unsigned int GPIO_DATA_SET0 = GPIO_BASE + 0x48;
const unsigned int GPIO_PAD_DIR0 = GPIO_BASE + 0x00;

// copied from GPIO_Pin.h
void turn_led(int pin, bool on) {
    int bit = pin % 32;
    unsigned int regData = GPIO_DATA_SET0 + ((pin >> 5) << 2);
    unsigned int regPad = GPIO_PAD_DIR0 + ((pin >> 5) << 2);
    unsigned int value = CPU::in32(regPad);
    if (on)
        value |= (1 << bit);
    else
        value &= ~(1 << bit);
    CPU::out32(regPad, value);
    CPU::out32(regData, (1 << bit));
}
```

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