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 */

/**
 * @file
 * @brief I2C2 Interrupt driven IO driver
 *
 * 20131010 : Removed read vs. write mode variable
 */
#ifndef i2c2hpp_
#define i2c2hpp_

#include "singleton_template.hpp"
#include "i2c_base.hpp"

/**
 * I2C2 Singleton Driver
 * This is a thin wrapper around I2C_Base class and merely gives the base
 * address of the I2C2 memory map.
 *
 * @ingroup Drivers
 */
class I2C2 : public I2C_Base, public SingletonTemplate<I2C2>
{
public:
    /// Initializes I2C2 at the given @param speedInKhz
    bool init(unsigned int speedInKhz);
    /// Initializes I2C2 at the given @param speedInKhz but as a Slave
    bool initSlave(const uint8_t slaveAddr, volatile uint8_t * buffer,
        uint32_t buffer_size);

```

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private:
    I2C2(); ///< Private constructor for this singleton class
    friend class SingletonTemplate<I2C2>; ///< Friend class used for
        Singleton Template
};

/**
 * I2C Addresses for on-board devices attached to I2C Bus
 */
enum Board_I2C_Device_Addresses{
    I2CAddr_AccelerationSensor = 0x38,
    I2CAddr_TemperatureSensor  = 0x90, /* AD0 pin tied to Gnd */
    I2CAddr_LED_Display        = 0x40,
};

#endif /* i2c2.hpp_ */

```