

```

/*
 * crc16.c
 *
 *
 * Created: 26/06/2013 16:42:35
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 *
 *=====
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 *
 * Description
 * -----
    Use of CRC-16 (CRC-CCITT, XMODEM) on the I/O interface

    Generates CRC-16 for the ASCII characters: 1...9
    Result in variables crcoutL and crcoutH
 */

#define F_CPU 2000000UL
#define __AVR_ATxmega128A3U
#include <avr/io.h>
#include <util/delay.h>

unsigned int i;
unsigned int crcoutL, crcoutH;

int main(void)
{
    // Selects I/O interface
    CRC_CTRL = CRC_SOURCE_IO_gc;

    for (i=49;i<58;i++)
    {
        CRC_DATAIN = i;
    }
    CRC_STATUS = CRC_BUSY_bm;

    crcoutL = CRC_CHECKSUM0;
    crcoutH = CRC_CHECKSUM1;
}

```