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// C Code to initialize the DC Relay Module

#include <allqed.h>                // Include QED header files

#define RELAY_CONTROL_LINES        1
#define DIRECTION_REGISTER         0xC005
#define RELAY_CONTROL_REGISTER    0xC000
#define ALL_RELAYS                  0xF

_Q void Init_DC_Relay ( uchar module_number ) // Valid module numbers
are 0-7
// Initializes the DC Relay Module by configuring the DC relay control
lines
// of the CPLD to outputs. The module number depends on the module
select
// jumpers. See Table 1 for the jumper settings and associated
addresses.
{
    EXTENDED_ADDR module_addr;
    // xaddr module_addr;
    module_addr.sixteen_bit.page16 = module_number;
    module_addr.sixteen_bit.addr16 = RELAY_CONTROL_REGISTER;

    // Turn all relays off before initializing control lines to outputs.
    // Relays are active low (i.e. writing a 0 to the relay turns it on).
    StoreChar( ALL_RELAYS, module_addr.addr32 );

    module_addr.sixteen_bit.addr16 = DIRECTION_REGISTER;

    StoreChar( RELAY_CONTROL_LINES, module_addr.addr32);
}

```