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* Name:
                      bcm_rpgm.c
* Author:
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* Description:
       "Main" for creation of reprogramming build.
* This version however is used as part of a Boot Swap Utility.
#ifdef RPGM BUILD
#include "hwlbltyp.h"
* These are defined as global variables, so they may be
* accessed in the debugger.
BYTE Ve_y_EraseStatus;
BYTE Ve y WriteStatus;
void main(void)
{
   WORD Le i Index;
   LONGWORD Le_g_Length;
   LONGWORD Le_g_Source;
   LONGWORD Le_g_Destination;
    /* Initialize to undetermined. FLASH SUCCESS == 0, FLASH FAILURE == 1 */
   Ve_y_EraseStatus = 5;
   Ve y WriteStatus = 6;
    /* Call the required init function before erasing. */
    InitHWIO_Flash();
    * Erase the existing BootLoader, block-by-block.
    * Boot occupies 0x0000 thru 0x3FFF (i.e. 16kB).
    * for the NEC micro, each block is 4096 bytes (i.e. 4kB),
    * so there are a total of 4 blocks occupied by Boot.
    * /
   for (Le_i_Index=0;Le_i_Index<4;Le_i_Index++)</pre>
       Ve y EraseStatus = EraseHWIO FlashBlock(Le i Index);
    /* Erase cal presence pattern */
   EraseHWIO FlashBlock((WORD)0x100);
    /* Erase app presence pattern */
   EraseHWIO FlashBlock((WORD)0xFF);
   EraseHWIO FlashBlock((WORD)0xFE);
   EraseHWIO FlashBlock((WORD)0xFD);
   EraseHWIO_FlashBlock((WORD)0xFC);
   /* Call the required init function before writing. */
    InitHWIO_Flash();
    /* Write new BootLoader */
   Le q Length = 0x4000;
                                /*Downloaded Boot binary is 16kB */
   Le_g_Source = 0x3FF5000;
                                /*Downloaded Boot binary is here */
   Le_g_Destination = 0x0000; /*New Boot should be written here */
   Ve y WriteStatus = WriteHWIO FlashMemory(Le g Length, Le g Source, Le g Destination);
    /* Wait for watchdog timer to reset us */
   while (1)
    {
                ;
       }
#endif
```