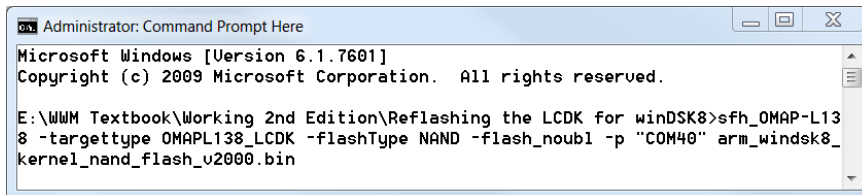


Reflashing the LCDK for winDSK8 (Kernel Version 2000)

The instructions below explain how to program the winDSK8 kernel into the flash memory on the OMAP-L138 Low Cost Development Kit (LCDK) board. The winDSK8 kernel code is run by the ARM9 processor and supports the winDSK8 application, as well as the applications based on winDSK8 communications (i.e. C8X_CONTROL, etc.). The winDSK8 kernel can also be placed in a standby mode for more stable access to the DSP when developing applications with Code Composer Studio. This process will overwrite the UBL bootloader installed in the board's flash memory at the factory. The UBL bootloader can be reinstalled later if desired.

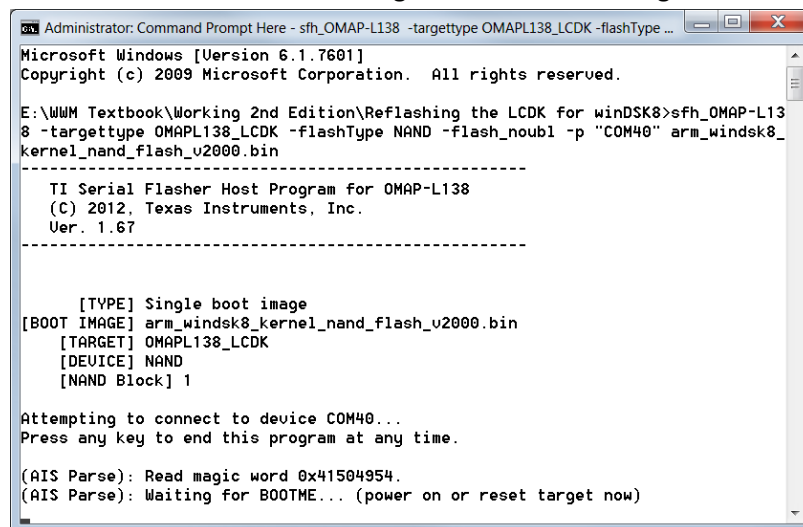
- Connect the LCDK board UART-USB connector (J3) to a USB port on your computer. (The drivers for the UART-USB interface should already be loaded on a computer with Code Composer Studio installed.)
- Set the LCDK board for a UART2 boot by setting the DIP switch SW1 to (1-OFF, 2-ON, 3-OFF, 4-ON).
- Connect the power supply to the LCDK board and plug the power supply into an AC outlet.
- On the computer, open a command window in the directory containing ***sfh_OMAP-L138.exe*** and ***arm_windsk8_kernel_nand_flash_v2000.bin***. A "Command Prompt Here" shortcut is provided in the directory to simplify this process.
- Copy and paste the text shown below into the command window after editing "COM3" to match the computer COM port number you connected the OMAP-L138 board to. You can find the text in the file ***command.txt*** so you can easily edit it for the correct COM port and then paste it into the command window.
 - ***sfh_OMAP-L138 -targettype OMAPL138_LCDK -flashType NAND -flash_noubl -p "COM3" arm_windsk8_kernel_nand_flash_v2000.bin***
 - The screen captures below shows the command edited for use with COM40.



```
Administrator: Command Prompt Here
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

E:\WMM Textbook\Working 2nd Edition\Reflashing the LCDK for winDSK8>sfh_OMAP-L138 -targettype OMAPL138_LCDK -flashType NAND -flash_noubl -p "COM40" arm_windsk8_kernel_nand_flash_v2000.bin
```

- Execute the command. You should see the "Waiting for BOOTME" message as shown below.



```
Administrator: Command Prompt Here - sfh_OMAP-L138 -targettype OMAPL138_LCDK -flashType ...
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

E:\WMM Textbook\Working 2nd Edition\Reflashing the LCDK for winDSK8>sfh_OMAP-L138 -targettype OMAPL138_LCDK -flashType NAND -flash_noubl -p "COM40" arm_windsk8_kernel_nand_flash_v2000.bin

-----
TI Serial Flasher Host Program for OMAP-L138
(C) 2012, Texas Instruments, Inc.
Ver. 1.67
-----

[TYPE] Single boot image
[BOOT IMAGE] arm_windsk8_kernel_nand_flash_v2000.bin
[TARGET] OMAPL138_LCDK
[DEVICE] NAND
[NAND Block] 1

Attempting to connect to device COM40...
Press any key to end this program at any time.

(AIS Parse): Read magic word 0x41504954.
(AIS Parse): Waiting for BOOTME... (power on or reset target now)
```

- Press the reset switch (S1) on the LCDK board. You should immediately see the "BOOTME received" message. There will be a short delay, and then the LCDK board will be programmed and the application

