

Preliminary

Application Note

Methods of downloading code or data to flash

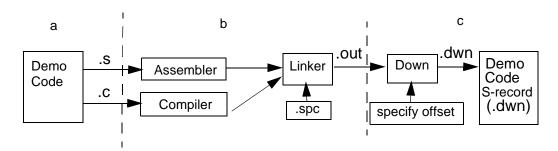


Figure 1. Changing code to s-record

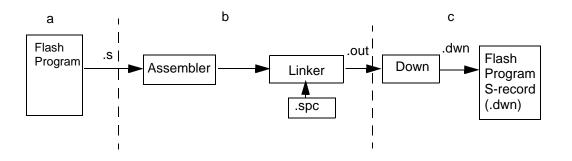


Figure 2. Changing flash program to s-record

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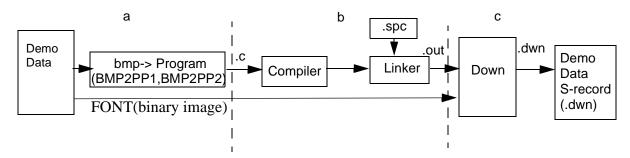


Figure 3. Changing data to s-record

STAGE a

To convert bmp to s-record, we need to execute bmp2pp1.exe or bmp2pp2.exe.

- a) BMP2PP1.EXE convert 16 gray colour bmp file to raw data which is 1 bit per pixel and it is output in C program format.
- b) BMP2PP1.EXE convert 16 gray colour bmp file to raw data which is 2 bit per pixel and it is output in C program format.

Here is an example:

C:\BMP>bmp2pps2

This file convert a 4-bit BMP into 2 bit DC.b file

Pls enter binary file name to read:

sample.bmp

Pls enter text file to write:

sample.c

Pls enter binary file size in bytes:310

Please enter the code for WHITE, LIGHT GREY, DARK GREY and BLACK: c840

code is c840

Convertion Completed

Note: Please refer to Graphic Conversion Tools User Manual for detailed description for getting the code

STAGE b

Compile and link sample.c to produce sample.out

STAGE c

Use down.exe to generate a sample.dwn file

down -d mot sample.out -w [offset]

Then s- record (.dwn) obtained



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Then next step is download the following s-record or b-record to the target system in bootstrap mode using bbug:

- 1. lo ads_init.b b
- 2. lo flash.dwn s
- 3. lo sample.dwn s

Finally, go to the address to execute the flash program, for example, if the flash program is located in 0x4000. Then type:

go 4000

Then the downloaded program code will be copied to the flash as illstrated from the following diagram:

